

Well Name: POKER LAKE UNIT 23 DTD	Well Location: T24S / R30E / SEC 23 / SWSW / 32.211727 / -103.859462	County or Parish/State: EDDY / NM
Well Number: 102H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM068905	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2785656

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/17/2024

Time Sundry Submitted: 02:23

Date proposed operation will begin: 05/01/2024

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: 406' FSL & 251' FWL OF SECTION 14-T24S-R30E 556' FSL & 250' FWL OF SECTION 14-T24S-R30E FTP: 100' FSL & 1210' FWL OF SECTION 14-T24S-R30E 100' FNL & 457' FWL OF SECTION 23-T24S-R30E LTP: 330' FNL & 1210' FWL OF SECTION 2-T24S-R30E 2537' FNL & 457' FWL OF SECTION 35-T24S-R30E BHL: 200' FNL & 1210' FWL OF SECTION 2-T24S-R30E 2627' FNL & 457' FWL OF SECTION 35-T24S-R30E The proposed total depth is changing from 27185' MD; 11240' TVD (Purple Sage/Wolfcamp (Gas)) to 22655' MD; 9784' TVD (Bone Spring 2 Sand). 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, Breaking testing, Spudder Rig, Spec Sheets No Additional Surface Disturbance.

NOI Attachments

Procedure Description

PLU_23_DTD_102H_Sundry_Document_20241023073939.pdf

Well Name: POKER LAKE UNIT 23
DTD

Well Location: T24S / R30E / SEC 23 /
SWSW / 32.211727 / -103.859462

County or Parish/State: EDDY /
NM

Well Number: 102H

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMNM068905

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:
NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING
LLC

Conditions of Approval

Additional

Poker_Lake_Unit_23_DTD_102H_COA_20241205095212.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: RICHARD REDUS

Signed on: OCT 23, 2024 07:39 AM

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Manager

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

City: SPRING

State: TX

Phone: (720) 539-1673

Email address: RICHARD.L.REDUS@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: 12/16/2024

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.	NMLC068905
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2	
1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	
2. Name of Operator XTO PERMIAN OPERATING LLC	
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,	3b. Phone No. (include area code) (432) 683-2277
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 23/T24S/R30E/NMP	

7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X
8. Well Name and No. POKER LAKE UNIT 23 DTD/102H
9. API Well No.
10. Field and Pool or Exploratory Area PURPLE SAGE/WOLFCAMP (GAS)
11. Country or Parish, State EDDY/NM

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

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

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

FROM: TO:
SHL: 406' FSL & 251' FWL OF SECTION 14-T24S-R30E 556' FSL & 250' FWL OF SECTION 14-T24S-R30E
FTP: 100' FSL & 1210' FWL OF SECTION 14-T24S-R30E 100' FNL & 457' FWL OF SECTION 23-T24S-R30E
LTP: 330' FNL & 1210' FWL OF SECTION 2-T24S-R30E 2537' FNL & 457' FWL OF SECTION 35-T24S-R30E
BHL: 200' FNL & 1210' FWL OF SECTION 2-T24S-R30E 2627' FNL & 457' FWL OF SECTION 35-T24S-R30E

The proposed total depth is changing from 27185 MD; 11240 TVD (Purple Sage/Wolfcamp (Gas)) to 22655 MD; 9784 TVD (Bone Spring 2 Sand).

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title Permitting Manager
Signature (Electronic Submission)	Date 10/23/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 12/16/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

See attached Drilling Plan for updated cement and casing program.

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

Attachments: C-102, Drilling Plan, Directional Plan, MBS, Breaking testing, Spudder Rig, Spec Sheets

No Additional Surface Disturbance.

Location of Well

0. SHL: SWSW / 406 FSL / 251 FWL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.211727 / LONG: -103.859462 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 1210 FWL / TWSP: 24S / RANGE: 30E / SECTION: 14 / LAT: 32.210894 / LONG: -103.856364 (TVD: 11240 feet, MD: 11700 feet)

BHL: LOT 1 / 200 FNL / 1210 FWL / TWSP: 24S / RANGE: 30E / SECTION: 2 / LAT: 32.253566 / LONG: -103.856334 (TVD: 11240 feet, MD: 27185 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	NMNM068905
LOCATION:	Sec. 14, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico ▼
WELL NAME & NO.:	Poker Lake Unit 23 DTD 102H
SURFACE HOLE FOOTAGE:	556'/S & 250'/W
BOTTOM HOLE FOOTAGE:	2627'/N & 457'/W

COA

H₂S	☒ 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 **870** 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 1st Intermediate casing** is:
- ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above.
- Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or potash.**
- If cement does not reach surface, the next casing string must come to surface.
3. ☐ The minimum required fill of cement behind the **7-5/8 inch 2nd Intermediate casing** is:

Option 1 (Single Stage):

- ☐ Cement should tie-back at least **500 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.**
- 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 6562'**.
 - 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. **Excess calculates to -47%. Additional cement maybe required.**
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or potash.

Operator has proposed to pump down **Intermediate 1 X Intermediate 2** annulus after primary cementing stage. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

4. ☐ The minimum required fill of cement behind the 5-1/2 inch production casing is:
- ☐ Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification. **Excess calculates to 14%. Additional cement maybe required.**

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. ☐ **Option 1:** Using a Convention Wellhead (Spudder Rig)
- a. ☐ Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi. Annular which shall be tested to 2000 (2M) psi.**
3. ☐ Using a Multibowl Wellhead
- a. ☐ 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 **1st Intermediate** casing shoe shall be **5000 (5M) psi.**
 - 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. ☐ 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.
 - v. ☐ 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 10/11/2024
575-234-5998 / zstevens@blm.gov

C-102 Submit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	Revised July, 09 2024
	Submittal Type:	☐ Initial Submittal
		☒ Amended Report
		☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-015- 54381	Pool Code 97798	Pool Name WILDCAT G-06 S243026M; BONE SPRING
Property Code	Property Name POKER LAKE UNIT 23 DTD	Well Number 102H
OGRID No. 373075	Operator Name XTO PERMIAN OPERATING, LLC.	Ground Level Elevation 3,446'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	14	24S	30E		556' FSL	250' FWL	32.212139	-103.859464	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	35	24S	30E		2,627' FNL	457' FWL	32.174416	-103.858734	EDDY

Dedicated Acres 800.00	Infill or Defining Well INFILL	Defining Well API	Overlapping Spacing Unit (Y/N) Y	Consolidation Code U
Order Numbers.			Well Setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	14	24S	30E		556' FSL	250' FWL	32.212139	-103.859464	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	23	24S	30E		100' FNL	457' FWL	32.210338	-103.858800	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	35	24S	30E		2,537' FNL	457' FWL	32.174664	-103.858737	EDDY

Unitized Area or Area of Interest NMNM105422429	Spacing Unit Type : ☒ Horizontal ☐ Vertical	Ground Elevation 3,446'
---	--	-----------------------------------

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, 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 at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of heretofore entered by the division.

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

Terra Sebastian
Signature Date 10/29/2024

Terra Sebastian
Printed Name

terra.b.sebastian@exxonmobil.com
Email Address

SURVEYOR CERTIFICATIONS

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


Signature and Seal of Professional Surveyor



MARK DILLON HARP 23786
Certificate Number Date of Survey 10/28/2024

KT

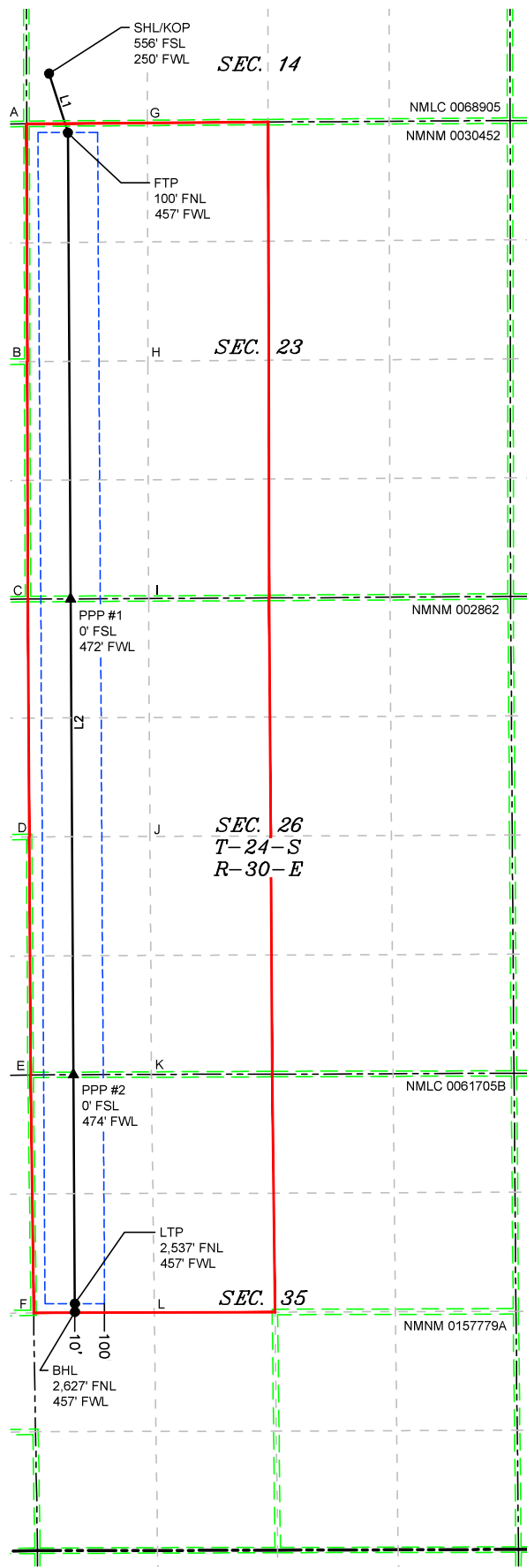
618,013003,09-18

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

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



LEGEND

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

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	162°21'22"	686.64'
L2	179°39'28"	13,067.81'

COORDINATE TABLE					
SHL/KOP (NAD 83 NME)			SHL/KOP (NAD 27 NME)		
Y =	441,233.3	N	Y =	441,174.2	N
X =	687,892.8	E	X =	646,709.1	E
LAT. =	32.212139	°N	LAT. =	32.212015	°N
LONG. =	103.859484	°W	LONG. =	103.858978	°W
FTP (NAD 83 NME)			FTP (NAD 27 NME)		
Y =	440,578.9	N	Y =	440,519.9	N
X =	688,101.0	E	X =	646,917.2	E
LAT. =	32.210338	°N	LAT. =	32.210214	°N
LONG. =	103.858000	°W	LONG. =	103.858314	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	435,411.5	N	Y =	435,352.5	N
X =	688,131.6	E	X =	646,947.7	E
LAT. =	32.196133	°N	LAT. =	32.196009	°N
LONG. =	103.858775	°W	LONG. =	103.858289	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	430,138.7	N	Y =	430,080.0	N
X =	688,162.9	E	X =	646,978.7	E
LAT. =	32.181639	°N	LAT. =	32.181515	°N
LONG. =	103.858749	°W	LONG. =	103.858264	°W
LTP (NAD 83 NME)			LTP (NAD 27 NME)		
Y =	427,601.4	N	Y =	427,542.7	N
X =	688,177.9	E	X =	646,993.7	E
LAT. =	32.174664	°N	LAT. =	32.174540	°N
LONG. =	103.858737	°W	LONG. =	103.858252	°W
BHL (NAD 83 NME)			BHL (NAD 27 NME)		
Y =	427,511.4	N	Y =	427,452.7	N
X =	688,179.0	E	X =	646,994.8	E
LAT. =	32.174416	°N	LAT. =	32.174292	°N
LONG. =	103.858734	°W	LONG. =	103.858250	°W
CORNER COORDINATES (NAD 83 NME)					
A - Y =	440,675.5	N	A - X =	687,643.7	E
B - Y =	438,041.1	N	B - X =	687,651.9	E
C - Y =	435,409.3	N	C - X =	687,659.2	E
D - Y =	432,774.3	N	D - X =	687,673.4	E
E - Y =	430,137.1	N	E - X =	687,689.1	E
F - Y =	427,500.0	N	F - X =	687,722.1	E
G - Y =	440,685.6	N	G - X =	688,981.2	E
H - Y =	438,048.4	N	H - X =	688,988.5	E
I - Y =	435,415.3	N	I - X =	688,995.2	E
J - Y =	432,779.2	N	J - X =	689,010.4	E
K - Y =	430,141.2	N	K - X =	689,026.3	E
L - Y =	427,504.1	N	L - X =	689,058.0	E
CORNER COORDINATES (NAD 27 NME)					
A - Y =	440,616.4	N	A - X =	646,459.9	E
B - Y =	437,982.1	N	B - X =	646,468.1	E
C - Y =	435,350.4	N	C - X =	646,475.2	E
D - Y =	432,715.5	N	D - X =	646,489.4	E
E - Y =	430,078.3	N	E - X =	646,505.0	E
F - Y =	427,441.3	N	F - X =	646,537.9	E
G - Y =	440,626.6	N	G - X =	647,797.5	E
H - Y =	437,989.4	N	H - X =	647,804.6	E
I - Y =	435,356.4	N	I - X =	647,811.3	E
J - Y =	432,720.4	N	J - X =	647,826.4	E
K - Y =	430,082.4	N	K - X =	647,842.2	E
L - Y =	427,445.4	N	L - X =	647,873.8	E

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 1644'

[illegible]

1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3962'

[illegible]

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 8868'

1st Stage

1. 在下列各数中，找出与 5 互质的数：
 2. 在下列各数中，找出与 5 互质的数：
 3. 在下列各数中，找出与 5 互质的数：
 4. 在下列各数中，找出与 5 互质的数：
 5. 在下列各数中，找出与 5 互质的数：
 6. 在下列各数中，找出与 5 互质的数：
 7. 在下列各数中，找出与 5 互质的数：
 8. 在下列各数中，找出与 5 互质的数：
 9. 在下列各数中，找出与 5 互质的数：
 10. 在下列各数中，找出与 5 互质的数：

2nd Stage - bradenhead contingency

1. 在 1 到 100 中，有多少个数字的各位数字之和等于 5？
 2. 在 1 到 100 中，有多少个数字的各位数字之和等于 10？
 3. 在 1 到 100 中，有多少个数字的各位数字之和等于 15？
 4. 在 1 到 100 中，有多少个数字的各位数字之和等于 20？
 5. 在 1 到 100 中，有多少个数字的各位数字之和等于 25？
 6. 在 1 到 100 中，有多少个数字的各位数字之和等于 30？
 7. 在 1 到 100 中，有多少个数字的各位数字之和等于 35？
 8. 在 1 到 100 中，有多少个数字的各位数字之和等于 40？
 9. 在 1 到 100 中，有多少个数字的各位数字之和等于 45？
 10. 在 1 到 100 中，有多少个数字的各位数字之和等于 50？

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped

[illegible][illegible]

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 22655'

[illegible][illegible]

5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3190 psi.

used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a

[illegible]

Released to Imaging: 1/15/2025 1:16:45 PM

6. Proposed Mud Circulation System

Water	5	Mud	M	5	5
5	5	5	5	5	5
5	5	5	5	5	5
5	5	5	5	5	5
5	5	5	5	5	5

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

- 5
- 5
- 5

8. Logging, Coring and Testing Program

5

9. Abnormal Pressures and Temperatures / Potential Hazards

5

10. Anticipated Starting Date and Duration of Operations

5

Well Plan Report - Poker Lake Unit 23 DTD South 102H

Measured Depth: 22654.89 ft
TVD RKB: 9784.00 ft
Location
Cartographic Reference System: New Mexico East - NAD 27
Northing: 441174.20 ft
Easting: 646709.10 ft
RKB: 3478.00 ft
Ground Level: 3446.00 ft
North Reference: Grid
Convergence Angle: 0.25 Deg

Plan Sections Poker Lake Unit 23 DTD South 102H

Measured	Depth	Inclination	Azimuth	TVD		Y Offset	X Offset	Build		Turn		Dogleg
				RKB	(ft)			Rate	(Deg/100ft)	Rate	(Deg/100ft)	
	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4000.00	0.00	0.00	4000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5082.97	23.20	162.36	5053.62		-206.10	65.55	2.14	2.14	0.00	0.00	2.14
	5727.88	23.20	162.36	5646.38		-448.20	142.55	0.00	0.00	0.00	0.00	0.00
	6810.85	0.00	0.00	6700.00		-654.30	208.10	-2.14	-2.14	0.00	0.00	2.14
	9178.65	0.00	0.00	9067.80		-654.30	208.10	0.00	0.00	0.00	0.00	0.00
	10303.65	90.00	179.66	9784.00		-1370.48	212.32	8.00	8.00	0.00	0.00	8.00
	22564.87	90.00	179.66	9784.00		-13631.49	284.66	0.00	0.00	0.00	0.00	0.00 LTP 2
	22654.89	90.00	179.66	9784.00		-13721.51	285.19	0.00	0.00	0.00	0.00	0.00 BHL 2

Position Uncertainty Poker Lake Unit 23 DTD South 102H

Measured	TVD	Highside	RKB	Error	Bias	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
Depth	Inclination	Azimuth				Error	of Bias	Error	Error	Azimuth	Used

0.000	0.000	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
100.000	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	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
200.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.000	0.358	0.179	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
300.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.310	0.000	0.000	0.000	0.717	0.538	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
400.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.326	0.000	0.000	0.000	1.075	0.896	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
500.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	0.000	0.000	1.434	1.255	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
600.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.375	0.000	0.000	0.000	1.792	1.613	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
700.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.407	0.000	0.000	0.000	2.151	1.972	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
800.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.445	0.000	0.000	0.000	2.509	2.330	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
900.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.487	0.000	0.000	0.000	2.868	2.689	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1000.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.533	0.000	0.000	0.000	3.226	3.047	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1100.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.583	0.000	0.000	0.000	3.585	3.405	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1200.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.636	0.000	0.000	0.000	3.943	3.764	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1300.000	0.000	0.000	1200.000	4.302	0.000	4.122	0.000	2.693	0.000	0.000	0.000	4.302	4.122	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1400.000	0.000	0.000	1300.000	4.660	0.000	4.481	0.000	2.753	0.000	0.000	0.000	4.660	4.481	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1500.000	0.000	0.000	1400.000	5.019	0.000	4.839	0.000	2.816	0.000	0.000	0.000	5.019	4.839	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1600.000	0.000	0.000	1500.000	5.377	0.000	5.198	0.000	2.881	0.000	0.000	0.000	5.377	5.198	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1700.000	0.000	0.000	1600.000	5.736	0.000	5.556	0.000	2.949	0.000	0.000	0.000	5.736	5.556	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1800.000	0.000	0.000	1700.000	6.094	0.000	5.915	0.000	3.019	0.000	0.000	0.000	6.094	5.915	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
1900.000	0.000	0.000	1800.000	6.452	0.000	6.273	0.000	3.090	0.000	0.000	0.000	6.452	6.273	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2000.000	0.000	0.000	1900.000	6.811	0.000	6.632	0.000	3.164	0.000	0.000	0.000	6.811	6.632	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2100.000	0.000	0.000	2000.000	7.169	0.000	6.990	0.000	3.240	0.000	0.000	0.000	7.169	6.990	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2200.000	0.000	0.000	2100.000	7.528	0.000	7.349	0.000	3.317	0.000	0.000	0.000	7.528	7.349	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2300.000	0.000	0.000	2200.000	7.886	0.000	7.707	0.000	3.395	0.000	0.000	0.000	7.886	7.707	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2400.000	0.000	0.000	2300.000	8.245	0.000	8.066	0.000	3.476	0.000	0.000	0.000	8.245	8.066	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2500.000	0.000	0.000	2400.000	8.603	0.000	8.424	0.000	3.557	0.000	0.000	0.000	8.603	8.424	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2600.000	0.000	0.000	2500.000	8.962	0.000	8.783	0.000	3.640	0.000	0.000	0.000	8.962	8.783	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2700.000	0.000	0.000	2600.000	9.320	0.000	9.141	0.000	3.725	0.000	0.000	0.000	9.320	9.141	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2800.000	0.000	0.000	2700.000	9.679	0.000	9.499	0.000	3.811	0.000	0.000	0.000	9.679	9.499	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
2900.000	0.000	0.000	2800.000	10.037	0.000	9.858	0.000	3.898	0.000	0.000	0.000	10.037	9.858	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3000.000	0.000	0.000	2900.000	10.396	0.000	10.216	0.000	3.986	0.000	0.000	0.000	10.396	10.216	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3100.000	0.000	0.000	3000.000	10.754	0.000	10.575	0.000	4.076	0.000	0.000	0.000	10.754	10.575	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3200.000	0.000	0.000	3100.000	11.113	0.000	10.933	0.000	4.167	0.000	0.000	0.000	11.113	10.933	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
	0.000	0.000	3200.000	11.471	0.000	11.292	0.000	4.259	0.000	0.000	0.000	11.471	11.292	90.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23

3300.000	0.000	0.000	3300.000	11.830	0.000	11.650	0.000	11.830	11.650	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3400.000	0.000	0.000	3400.000	12.188	0.000	12.009	0.000	12.188	12.009	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3500.000	0.000	0.000	3500.000	12.547	0.000	12.367	0.000	12.547	12.367	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3600.000	0.000	0.000	3600.000	12.905	0.000	12.726	0.000	12.905	12.726	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3700.000	0.000	0.000	3700.000	13.263	0.000	13.084	0.000	13.263	13.084	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3800.000	0.000	0.000	3800.000	13.622	0.000	13.443	0.000	13.622	13.443	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
3900.000	0.000	0.000	3900.000	13.980	0.000	13.801	0.000	13.980	13.801	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4000.000	0.000	0.000	4000.000	14.339	0.000	14.160	0.000	14.339	14.160	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4100.000	2.142	162.357	4099.977	14.654	0.000	14.516	-0.000	14.679	14.499	90.002	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4200.000	4.284	162.357	4199.814	14.950	0.000	14.837	-0.000	15.003	14.820	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4300.000	6.427	162.357	4299.371	15.228	0.000	15.158	-0.000	15.327	15.141	90.063	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4400.000	8.569	162.357	4398.511	15.487	0.000	15.479	-0.000	15.651	15.461	90.248	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4500.000	10.711	162.357	4497.093	15.726	0.000	15.800	-0.000	15.974	15.781	90.614	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4600.000	12.853	162.357	4594.980	15.945	0.000	16.120	-0.000	16.295	16.100	91.226	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4700.000	14.995	162.357	4692.036	16.144	0.000	16.441	-0.000	16.613	16.418	92.161	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4800.000	17.138	162.357	4788.124	16.322	0.000	16.762	-0.000	16.929	16.736	93.530	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
4900.000	19.280	162.357	4883.111	16.478	0.000	17.083	-0.000	17.241	17.054	95.494	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5000.000	21.422	162.357	4976.864	16.613	0.000	17.405	-0.000	17.550	17.371	98.299	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5082.971	23.200	162.357	5053.620	16.709	0.000	17.673	-0.000	17.805	17.632	101.425	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5100.000	23.200	162.357	5069.272	16.763	0.000	17.728	-0.000	17.857	17.686	102.009	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5200.000	23.200	162.357	5161.186	17.081	0.000	18.055	-0.000	18.163	18.001	107.673	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5300.000	23.200	162.357	5253.100	17.402	0.000	18.387	-0.000	18.476	18.316	114.190	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5400.000	23.200	162.357	5345.014	17.725	0.000	18.724	-0.000	18.796	18.631	121.038	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5500.000	23.200	162.357	5436.928	18.050	0.000	19.064	-0.000	19.123	18.944	127.515	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5600.000	23.200	162.357	5528.842	18.377	0.000	19.409	-0.000	19.457	19.255	133.111	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5700.000	23.200	162.357	5620.756	18.706	0.000	19.758	-0.000	19.798	19.566	-42.324	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5727.879	23.200	162.357	5646.380	18.798	0.000	19.855	-0.000	19.893	19.653	-41.260	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5800.000	21.655	162.357	5713.044	19.182	0.000	20.109	-0.000	20.143	19.877	-38.768	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
5900.000	19.512	162.357	5806.655	19.698	0.000	20.465	-0.000	20.495	20.194	-36.124	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6000.000	17.370	162.357	5901.514	20.193	0.000	20.824	-0.000	20.851	20.516	-34.222	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6100.000	15.228	162.357	5997.490	20.666	0.000	21.183	-0.000	21.208	20.845	-32.830	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6200.000	13.086	162.357	6094.447	21.116	0.000	21.543	-0.000	21.566	21.178	-31.789	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6300.000	10.943	162.357	6192.251	21.541	0.000	21.903	-0.000	21.924	21.516	-30.997	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6400.000	8.801	162.357	6290.764	21.939	0.000	22.260	-0.000	22.281	21.856	-30.388	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23

6500.000	6.659	162.357	6389.850	22.311	0.000	22.616	-0.000	8.377	0.000	0.000	22.636	22.198	-29.914	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6600.000	4.517	162.357	6489.369	22.654	0.000	22.969	-0.000	8.533	0.000	0.000	22.988	22.542	-29.543	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6700.000	2.375	162.357	6589.182	22.969	0.000	23.319	-0.000	8.687	0.000	0.000	23.337	22.885	-29.248	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6800.000	0.232	162.357	6689.151	23.254	0.000	23.665	-0.000	8.839	0.000	0.000	23.683	23.228	-29.010	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6810.849	0.000	0.000	6700.000	23.373	0.000	23.614	0.000	8.856	0.000	0.000	23.720	23.265	-29.015	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
6900.000	0.000	0.000	6789.151	23.685	0.000	23.919	0.000	8.991	0.000	0.000	24.026	23.576	-29.285	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7000.000	0.000	0.000	6889.151	24.034	0.000	24.261	0.000	9.146	0.000	0.000	24.369	23.926	-29.587	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7100.000	0.000	0.000	6989.151	24.385	0.000	24.605	0.000	9.303	0.000	0.000	24.712	24.275	-29.889	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7200.000	0.000	0.000	7089.151	24.735	0.000	24.948	0.000	9.462	0.000	0.000	25.056	24.625	-30.190	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7300.000	0.000	0.000	7189.151	25.085	0.000	25.292	0.000	9.624	0.000	0.000	25.401	24.975	-30.491	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7400.000	0.000	0.000	7289.151	25.436	0.000	25.636	0.000	9.789	0.000	0.000	25.746	25.325	-30.791	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7500.000	0.000	0.000	7389.151	25.787	0.000	25.981	0.000	9.957	0.000	0.000	26.091	25.676	-31.090	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7600.000	0.000	0.000	7489.151	26.138	0.000	26.326	0.000	10.128	0.000	0.000	26.437	26.026	-31.388	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7700.000	0.000	0.000	7589.151	26.490	0.000	26.671	0.000	10.301	0.000	0.000	26.783	26.377	-31.686	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7800.000	0.000	0.000	7689.151	26.841	0.000	27.017	0.000	10.477	0.000	0.000	27.129	26.728	-31.982	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
7900.000	0.000	0.000	7789.151	27.193	0.000	27.363	0.000	10.656	0.000	0.000	27.476	27.079	-32.278	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8000.000	0.000	0.000	7889.151	27.545	0.000	27.710	0.000	10.838	0.000	0.000	27.823	27.430	-32.572	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8100.000	0.000	0.000	7989.151	27.897	0.000	28.056	0.000	11.022	0.000	0.000	28.170	27.782	-32.866	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8200.000	0.000	0.000	8089.151	28.249	0.000	28.403	0.000	11.210	0.000	0.000	28.518	28.133	-33.158	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8300.000	0.000	0.000	8189.151	28.601	0.000	28.751	0.000	11.400	0.000	0.000	28.866	28.485	-33.449	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8400.000	0.000	0.000	8289.151	28.954	0.000	29.098	0.000	11.593	0.000	0.000	29.214	28.837	-33.738	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8500.000	0.000	0.000	8389.151	29.307	0.000	29.446	0.000	11.789	0.000	0.000	29.562	29.189	-34.027	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8600.000	0.000	0.000	8489.151	29.659	0.000	29.794	0.000	11.988	0.000	0.000	29.911	29.541	-34.314	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8700.000	0.000	0.000	8589.151	30.012	0.000	30.142	0.000	12.190	0.000	0.000	30.260	29.894	-34.599	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8800.000	0.000	0.000	8689.151	30.365	0.000	30.491	0.000	12.395	0.000	0.000	30.609	30.246	-34.883	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
8900.000	0.000	0.000	8789.151	30.719	0.000	30.840	0.000	12.603	0.000	0.000	30.959	30.599	-35.166	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9000.000	0.000	0.000	8889.151	31.072	0.000	31.189	0.000	12.813	0.000	0.000	31.308	30.951	-35.447	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9100.000	0.000	0.000	8989.151	31.425	0.000	31.538	0.000	13.027	0.000	0.000	31.658	31.304	-35.726	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9178.649	0.000	0.000	9067.800	31.703	0.000	31.813	0.000	13.197	0.000	0.000	31.933	31.582	-35.945	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9200.000	1.708	179.662	9089.147	31.816	0.000	31.888	-0.000	13.244	0.000	0.000	32.007	31.656	-35.935	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9300.000	9.708	179.662	9188.571	32.031	0.000	32.233	-0.000	13.465	0.000	0.000	32.350	31.996	-35.409	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9400.000	17.708	179.662	9285.644	31.730	0.000	32.580	-0.000	13.685	0.000	0.000	32.694	32.333	-34.457	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9500.000	25.708	179.662	9378.476	30.919	0.000	32.925	-0.000	13.900	0.000	0.000	33.032	32.655	-32.588	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9600.000	33.708	179.662	9465.262	29.627	0.000	33.262	-0.000	14.105	0.000	0.000	33.359	32.952	-29.679	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23

9700.000	41.708	179.662	9544.311	27.897	0.000	33.588	-0.000	14.297	0.000	0.000	33.673	33.215	-26.024	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9800.000	49.708	179.662	9614.086	25.800	0.000	33.898	-0.000	14.477	0.000	0.000	33.972	33.436	-22.210	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
9900.000	57.708	179.662	9673.228	23.434	0.000	34.191	-0.000	14.641	0.000	0.000	34.255	33.609	-18.784	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10000.000	65.708	179.662	9720.586	20.941	0.000	34.462	-0.000	14.792	0.000	0.000	34.518	33.736	-16.020	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10100.000	73.708	179.662	9755.238	18.529	0.000	34.708	-0.000	14.929	0.000	0.000	34.759	33.821	-13.943	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10200.000	81.708	179.662	9776.510	16.489	0.000	34.927	-0.000	15.053	0.000	0.000	34.975	33.869	-12.465	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10303.649	90.000	179.662	9783.997	15.169	0.000	35.121	-0.000	15.169	0.000	0.000	35.168	33.893	-11.452	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10400.000	90.000	179.662	9783.997	15.276	0.000	35.291	-0.000	15.276	0.000	0.000	35.337	33.904	-10.751	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10500.000	90.000	179.662	9783.997	15.401	0.000	35.480	-0.000	15.401	0.000	0.000	35.525	33.916	-10.088	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10600.000	90.000	179.662	9783.997	15.537	0.000	35.681	-0.000	15.537	0.000	0.000	35.725	33.929	-9.492	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10700.000	90.000	179.662	9783.997	15.686	0.000	35.894	-0.000	15.686	0.000	0.000	35.938	33.942	-8.955	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10800.000	90.000	179.662	9783.997	15.846	0.000	36.120	-0.000	15.846	0.000	0.000	36.163	33.956	-8.471	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
10900.000	90.000	179.662	9783.997	16.018	0.000	36.358	-0.000	16.018	0.000	0.000	36.400	33.970	-8.033	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11000.000	90.000	179.662	9783.997	16.200	0.000	36.607	-0.000	16.200	0.000	0.000	36.648	33.985	-7.635	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11100.000	90.000	179.662	9783.997	16.394	0.000	36.867	-0.000	16.394	0.000	0.000	36.908	34.001	-7.273	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11200.000	90.000	179.662	9783.997	16.597	0.000	37.139	-0.000	16.597	0.000	0.000	37.179	34.017	-6.943	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11300.000	90.000	179.662	9783.997	16.810	0.000	37.422	-0.000	16.810	0.000	0.000	37.461	34.034	-6.640	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11400.000	90.000	179.662	9783.997	17.032	0.000	37.715	-0.000	17.032	0.000	0.000	37.754	34.052	-6.362	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11500.000	90.000	179.662	9783.997	17.264	0.000	38.019	-0.000	17.264	0.000	0.000	38.057	34.070	-6.106	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11600.000	90.000	179.662	9783.997	17.504	0.000	38.332	-0.000	17.504	0.000	0.000	38.370	34.088	-5.870	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11700.000	90.000	179.662	9783.997	17.753	0.000	38.656	-0.000	17.753	0.000	0.000	38.693	34.108	-5.651	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11800.000	90.000	179.662	9783.997	18.010	0.000	38.990	-0.000	18.010	0.000	0.000	39.026	34.128	-5.448	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
11900.000	90.000	179.662	9783.997	18.275	0.000	39.332	-0.000	18.275	0.000	0.000	39.368	34.148	-5.259	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12000.000	90.000	179.662	9783.997	18.546	0.000	39.684	-0.000	18.546	0.000	0.000	39.720	34.169	-5.083	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12100.000	90.000	179.662	9783.997	18.825	0.000	40.045	-0.000	18.825	0.000	0.000	40.080	34.191	-4.919	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12200.000	90.000	179.662	9783.997	19.111	0.000	40.415	-0.000	19.111	0.000	0.000	40.449	34.213	-4.765	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12300.000	90.000	179.662	9783.997	19.403	0.000	40.793	-0.000	19.403	0.000	0.000	40.827	34.236	-4.621	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12400.000	90.000	179.662	9783.997	19.701	0.000	41.179	-0.000	19.701	0.000	0.000	41.213	34.260	-4.486	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12500.000	90.000	179.662	9783.997	20.005	0.000	41.574	-0.000	20.005	0.000	0.000	41.607	34.284	-4.359	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12600.000	90.000	179.662	9783.997	20.315	0.000	41.976	-0.000	20.315	0.000	0.000	42.008	34.309	-4.239	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12700.000	90.000	179.662	9783.997	20.630	0.000	42.386	-0.000	20.630	0.000	0.000	42.417	34.334	-4.126	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12800.000	90.000	179.662	9783.997	20.950	0.000	42.803	-0.000	20.950	0.000	0.000	42.834	34.360	-4.019	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
12900.000	90.000	179.662	9783.997	21.275	0.000	43.227	-0.000	21.275	0.000	0.000	43.258	34.387	-3.917	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13000.000	90.000	179.662	9783.997	21.605	0.000	43.658	-0.000	21.605	0.000	0.000	43.688	34.414	-3.821	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23

13100.000	90.000	179.662	9783.997	21.939	0.000	44.095	-0.000	21.939	0.000	0.000	44.126	34.442	-3.730	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13200.000	90.000	179.662	9783.997	22.278	0.000	44.540	-0.000	22.278	0.000	0.000	44.570	34.470	-3.644	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13300.000	90.000	179.662	9783.997	22.620	0.000	44.990	-0.000	22.620	0.000	0.000	45.020	34.499	-3.561	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13400.000	90.000	179.662	9783.997	22.967	0.000	45.447	-0.000	22.967	0.000	0.000	45.476	34.529	-3.483	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13500.000	90.000	179.662	9783.997	23.317	0.000	45.910	-0.000	23.317	0.000	0.000	45.938	34.559	-3.408	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13600.000	90.000	179.662	9783.997	23.670	0.000	46.378	-0.000	23.670	0.000	0.000	46.406	34.590	-3.337	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13700.000	90.000	179.662	9783.997	24.027	0.000	46.852	-0.000	24.027	0.000	0.000	46.880	34.621	-3.268	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13800.000	90.000	179.662	9783.997	24.388	0.000	47.332	-0.000	24.388	0.000	0.000	47.359	34.653	-3.203	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
13900.000	90.000	179.662	9783.997	24.751	0.000	47.816	-0.000	24.751	0.000	0.000	47.844	34.686	-3.141	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14000.000	90.000	179.662	9783.997	25.117	0.000	48.306	-0.000	25.117	0.000	0.000	48.333	34.719	-3.081	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14100.000	90.000	179.662	9783.997	25.487	0.000	48.801	-0.000	25.487	0.000	0.000	48.828	34.753	-3.023	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14200.000	90.000	179.662	9783.997	25.858	0.000	49.301	-0.000	25.858	0.000	0.000	49.327	34.787	-2.968	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14300.000	90.000	179.662	9783.997	26.233	0.000	49.805	-0.000	26.233	0.000	0.000	49.831	34.822	-2.915	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14400.000	90.000	179.662	9783.997	26.610	0.000	50.314	-0.000	26.610	0.000	0.000	50.339	34.858	-2.865	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14500.000	90.000	179.662	9783.997	26.989	0.000	50.827	-0.000	26.989	0.000	0.000	50.852	34.894	-2.816	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14600.000	90.000	179.662	9783.997	27.371	0.000	51.344	-0.000	27.371	0.000	0.000	51.369	34.931	-2.769	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14700.000	90.000	179.662	9783.997	27.755	0.000	51.866	-0.000	27.755	0.000	0.000	51.890	34.968	-2.723	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14800.000	90.000	179.662	9783.997	28.141	0.000	52.391	-0.000	28.141	0.000	0.000	52.416	35.006	-2.680	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
14900.000	90.000	179.662	9783.997	28.529	0.000	52.921	-0.000	28.529	0.000	0.000	52.945	35.044	-2.638	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15000.000	90.000	179.662	9783.997	28.919	0.000	53.454	-0.000	28.919	0.000	0.000	53.478	35.083	-2.597	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15100.000	90.000	179.662	9783.997	29.310	0.000	53.991	-0.000	29.310	0.000	0.000	54.014	35.123	-2.558	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15200.000	90.000	179.662	9783.997	29.704	0.000	54.531	-0.000	29.704	0.000	0.000	54.555	35.163	-2.520	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15300.000	90.000	179.662	9783.997	30.099	0.000	55.075	-0.000	30.099	0.000	0.000	55.098	35.204	-2.483	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15400.000	90.000	179.662	9783.997	30.496	0.000	55.623	-0.000	30.496	0.000	0.000	55.645	35.245	-2.448	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15500.000	90.000	179.662	9783.997	30.895	0.000	56.173	-0.000	30.895	0.000	0.000	56.195	35.287	-2.413	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15600.000	90.000	179.662	9783.997	31.295	0.000	56.727	-0.000	31.295	0.000	0.000	56.749	35.330	-2.380	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15700.000	90.000	179.662	9783.997	31.696	0.000	57.283	-0.000	31.696	0.000	0.000	57.305	35.373	-2.348	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15800.000	90.000	179.662	9783.997	32.099	0.000	57.843	-0.000	32.099	0.000	0.000	57.864	35.416	-2.317	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
15900.000	90.000	179.662	9783.997	32.503	0.000	58.405	-0.000	32.503	0.000	0.000	58.427	35.460	-2.286	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16000.000	90.000	179.662	9783.997	32.909	0.000	58.971	-0.000	32.909	0.000	0.000	58.992	35.505	-2.257	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16100.000	90.000	179.662	9783.997	33.316	0.000	59.539	-0.000	33.316	0.000	0.000	59.560	35.550	-2.228	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16200.000	90.000	179.662	9783.997	33.724	0.000	60.110	-0.000	33.724	0.000	0.000	60.130	35.596	-2.201	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16300.000	90.000	179.662	9783.997	34.133	0.000	60.683	-0.000	34.133	0.000	0.000	60.703	35.642	-2.174	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16400.000	90.000	179.662	9783.997	34.543	0.000	61.259	-0.000	34.543	0.000	0.000	61.279	35.689	-2.148	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23

16500.000	90.000	179.662	9783.997	34.955	0.000	61.837	-0.000	34.955	0.000	0.000	61.857	35.737	-2.122	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16600.000	90.000	179.662	9783.997	35.367	0.000	62.417	-0.000	35.367	0.000	0.000	62.437	35.785	-2.098	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16700.000	90.000	179.662	9783.997	35.781	0.000	63.000	-0.000	35.781	0.000	0.000	63.020	35.833	-2.074	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16800.000	90.000	179.662	9783.997	36.195	0.000	63.585	-0.000	36.195	0.000	0.000	63.605	35.882	-2.050	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
16900.000	90.000	179.662	9783.997	36.610	0.000	64.173	-0.000	36.610	0.000	0.000	64.192	35.932	-2.027	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17000.000	90.000	179.662	9783.997	37.027	0.000	64.762	-0.000	37.027	0.000	0.000	64.781	35.982	-2.005	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17100.000	90.000	179.662	9783.997	37.444	0.000	65.353	-0.000	37.444	0.000	0.000	65.372	36.033	-1.984	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17200.000	90.000	179.662	9783.997	37.862	0.000	65.947	-0.000	37.862	0.000	0.000	65.965	36.084	-1.963	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17300.000	90.000	179.662	9783.997	38.281	0.000	66.542	-0.000	38.281	0.000	0.000	66.561	36.136	-1.942	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17400.000	90.000	179.662	9783.997	38.701	0.000	67.140	-0.000	38.701	0.000	0.000	67.158	36.188	-1.922	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17500.000	90.000	179.662	9783.997	39.121	0.000	67.739	-0.000	39.121	0.000	0.000	67.757	36.241	-1.902	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17600.000	90.000	179.662	9783.997	39.542	0.000	68.340	-0.000	39.542	0.000	0.000	68.357	36.294	-1.883	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17700.000	90.000	179.662	9783.997	39.964	0.000	68.942	-0.000	39.964	0.000	0.000	68.960	36.348	-1.865	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17800.000	90.000	179.662	9783.997	40.387	0.000	69.547	-0.000	40.387	0.000	0.000	69.564	36.402	-1.847	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
17900.000	90.000	179.662	9783.997	40.810	0.000	70.153	-0.000	40.810	0.000	0.000	70.170	36.457	-1.829	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18000.000	90.000	179.662	9783.997	41.234	0.000	70.760	-0.000	41.234	0.000	0.000	70.778	36.513	-1.812	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18100.000	90.000	179.662	9783.997	41.659	0.000	71.370	-0.000	41.659	0.000	0.000	71.387	36.569	-1.795	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18200.000	90.000	179.662	9783.997	42.084	0.000	71.980	-0.000	42.084	0.000	0.000	71.997	36.625	-1.778	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18300.000	90.000	179.662	9783.997	42.510	0.000	72.593	-0.000	42.510	0.000	0.000	72.609	36.682	-1.762	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18400.000	90.000	179.662	9783.997	42.937	0.000	73.206	-0.000	42.937	0.000	0.000	73.223	36.739	-1.746	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18500.000	90.000	179.662	9783.997	43.364	0.000	73.822	-0.000	43.364	0.000	0.000	73.838	36.797	-1.731	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18600.000	90.000	179.662	9783.997	43.791	0.000	74.438	-0.000	43.791	0.000	0.000	74.454	36.856	-1.715	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18700.000	90.000	179.662	9783.997	44.219	0.000	75.056	-0.000	44.219	0.000	0.000	75.072	36.915	-1.701	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18800.000	90.000	179.662	9783.997	44.648	0.000	75.675	-0.000	44.648	0.000	0.000	75.691	36.974	-1.686	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
18900.000	90.000	179.662	9783.997	45.077	0.000	76.296	-0.000	45.077	0.000	0.000	76.312	37.034	-1.672	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19000.000	90.000	179.662	9783.997	45.507	0.000	76.917	-0.000	45.507	0.000	0.000	76.933	37.094	-1.658	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19100.000	90.000	179.662	9783.997	45.937	0.000	77.540	-0.000	45.937	0.000	0.000	77.556	37.155	-1.644	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19200.000	90.000	179.662	9783.997	46.367	0.000	78.165	-0.000	46.367	0.000	0.000	78.180	37.217	-1.631	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19300.000	90.000	179.662	9783.997	46.798	0.000	78.790	-0.000	46.798	0.000	0.000	78.805	37.278	-1.618	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19400.000	90.000	179.662	9783.997	47.230	0.000	79.417	-0.000	47.230	0.000	0.000	79.432	37.341	-1.605	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19500.000	90.000	179.662	9783.997	47.662	0.000	80.044	-0.000	47.662	0.000	0.000	80.059	37.404	-1.593	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19600.000	90.000	179.662	9783.997	48.094	0.000	80.673	-0.000	48.094	0.000	0.000	80.688	37.467	-1.580	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19700.000	90.000	179.662	9783.997	48.527	0.000	81.303	-0.000	48.527	0.000	0.000	81.317	37.531	-1.568	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
19800.000	90.000	179.662	9783.997	48.960	0.000	81.933	-0.000	48.960	0.000	0.000	81.948	37.595	-1.556	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23

19900.000	90.000	179.662	9783.997	49.393	0.000	82.565	-0.000	49.393	0.000	0.000	82.580	37.660	-1.545	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20000.000	90.000	179.662	9783.997	49.827	0.000	83.198	-0.000	49.827	0.000	0.000	83.212	37.725	-1.533	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20100.000	90.000	179.662	9783.997	50.261	0.000	83.832	-0.000	50.261	0.000	0.000	83.846	37.790	-1.522	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20200.000	90.000	179.662	9783.997	50.696	0.000	84.467	-0.000	50.696	0.000	0.000	84.481	37.856	-1.511	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20300.000	90.000	179.662	9783.997	51.131	0.000	85.102	-0.000	51.131	0.000	0.000	85.116	37.923	-1.500	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20400.000	90.000	179.662	9783.997	51.566	0.000	85.739	-0.000	51.566	0.000	0.000	85.753	37.990	-1.490	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20500.000	90.000	179.662	9783.997	52.002	0.000	86.376	-0.000	52.002	0.000	0.000	86.390	38.057	-1.479	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20600.000	90.000	179.662	9783.997	52.438	0.000	87.015	-0.000	52.438	0.000	0.000	87.028	38.125	-1.469	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20700.000	90.000	179.662	9783.997	52.874	0.000	87.654	-0.000	52.874	0.000	0.000	87.667	38.194	-1.459	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20800.000	90.000	179.662	9783.997	53.310	0.000	88.294	-0.000	53.310	0.000	0.000	88.307	38.263	-1.449	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
20900.000	90.000	179.662	9783.997	53.747	0.000	88.935	-0.000	53.747	0.000	0.000	88.948	38.332	-1.440	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21000.000	90.000	179.662	9783.997	54.184	0.000	89.576	-0.000	54.184	0.000	0.000	89.589	38.401	-1.430	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21100.000	90.000	179.662	9783.997	54.622	0.000	90.219	-0.000	54.622	0.000	0.000	90.232	38.472	-1.421	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21200.000	90.000	179.662	9783.997	55.059	0.000	90.862	-0.000	55.059	0.000	0.000	90.875	38.542	-1.412	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21300.000	90.000	179.662	9783.997	55.497	0.000	91.506	-0.000	55.497	0.000	0.000	91.519	38.613	-1.403	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21400.000	90.000	179.662	9783.997	55.935	0.000	92.150	-0.000	55.935	0.000	0.000	92.163	38.685	-1.394	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21500.000	90.000	179.662	9783.997	56.374	0.000	92.796	-0.000	56.374	0.000	0.000	92.808	38.756	-1.385	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21600.000	90.000	179.662	9783.997	56.813	0.000	93.442	-0.000	56.813	0.000	0.000	93.454	38.829	-1.376	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21700.000	90.000	179.662	9783.997	57.252	0.000	94.088	-0.000	57.252	0.000	0.000	94.101	38.901	-1.368	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21800.000	90.000	179.662	9783.997	57.691	0.000	94.736	-0.000	57.691	0.000	0.000	94.748	38.975	-1.360	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
21900.000	90.000	179.662	9783.997	58.130	0.000	95.384	-0.000	58.130	0.000	0.000	95.396	39.048	-1.351	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22000.000	90.000	179.662	9783.997	58.570	0.000	96.032	-0.000	58.570	0.000	0.000	96.045	39.122	-1.343	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22100.000	90.000	179.662	9783.997	59.010	0.000	96.682	-0.000	59.010	0.000	0.000	96.694	39.197	-1.335	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22200.000	90.000	179.662	9783.997	59.450	0.000	97.332	-0.000	59.450	0.000	0.000	97.344	39.271	-1.328	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22300.000	90.000	179.662	9783.997	59.890	0.000	97.982	-0.000	59.890	0.000	0.000	97.994	39.347	-1.320	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22400.000	90.000	179.662	9783.997	60.331	0.000	98.633	-0.000	60.331	0.000	0.000	98.645	39.422	-1.312	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22500.000	90.000	179.662	9783.997	60.771	0.000	99.285	-0.000	60.771	0.000	0.000	99.297	39.498	-1.305	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22564.869	90.000	179.662	9783.997	61.057	0.000	99.708	-0.000	61.057	0.000	0.000	99.719	39.548	-1.300	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22600.000	90.000	179.662	9783.997	61.212	0.000	99.936	-0.000	61.212	0.000	0.000	99.948	39.575	-1.297	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23
22654.890	90.000	179.662	9783.997	61.454	0.000	100.294	-0.000	61.454	0.000	0.000	100.306	39.617	-1.294	MWD+IFR1+SAG+MS+GS_XTO_PLUDDTD_23

Plan Targets

Poker Lake Unit 23 DTD South 102H

Grid Northing
Grid Easting
TVD MSL
Target Shape

Measured Depth
(ft)

(ft)

Target Name

Well Plan Report

3/14/24, 6:23 AM	FTP 2	10000.67	440519.90	646917.20	6306.00	RECTANGLE
	SHL 1	12622.41	441175.85	646664.48	8619.75	RECTANGLE
	LTP 2	22564.93	427542.70	646993.70	6306.00	RECTANGLE
	BHL 2	22654.88	427452.70	646994.80	6306.00	RECTANGLE



DRAWING NO. SDT-3301

(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head
And Drilling & Skid Configurations

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack

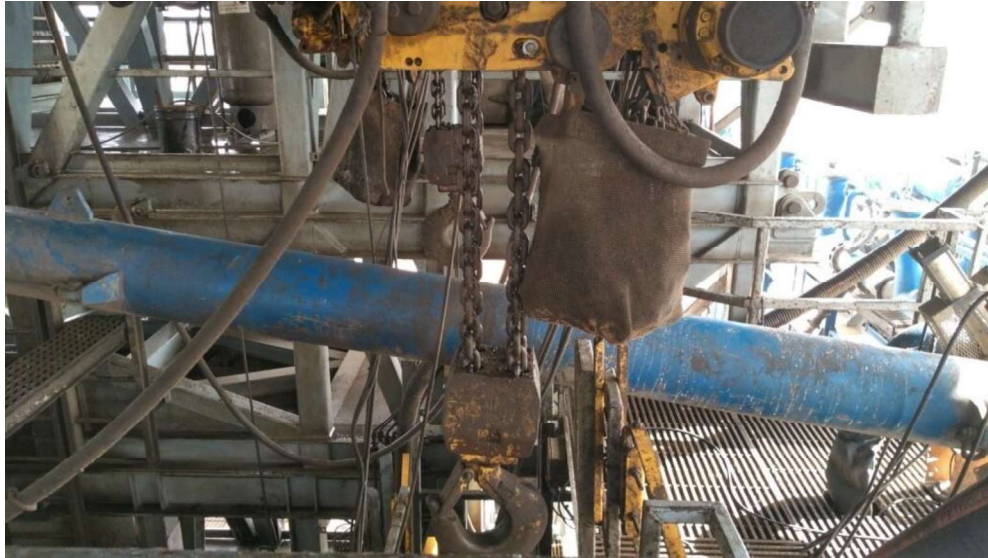


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states “A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component.” See Table C.4 below for reference.

62

API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Pressure Test—High Pressure ^{ac}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^a	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes ^a	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

^a Pressure test evaluation periods shall be a minimum of five minutes.

No visible leaks.

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

^e Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

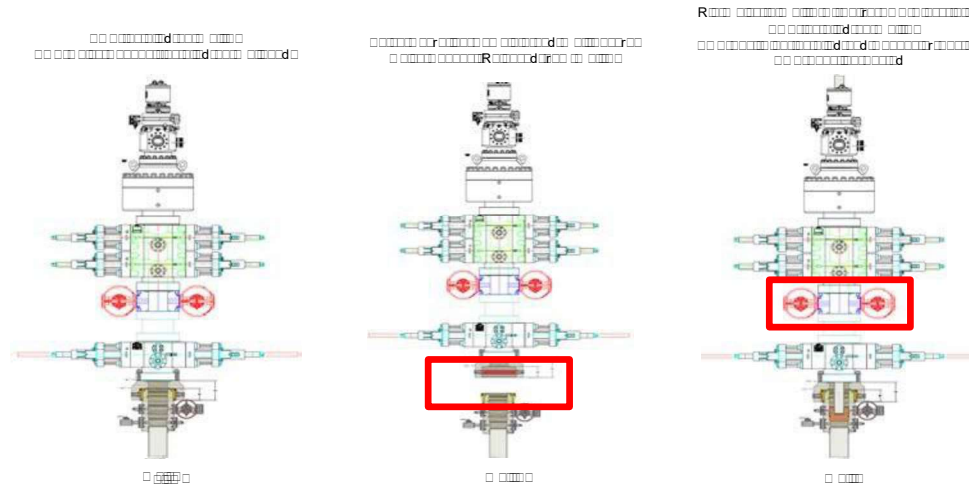
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



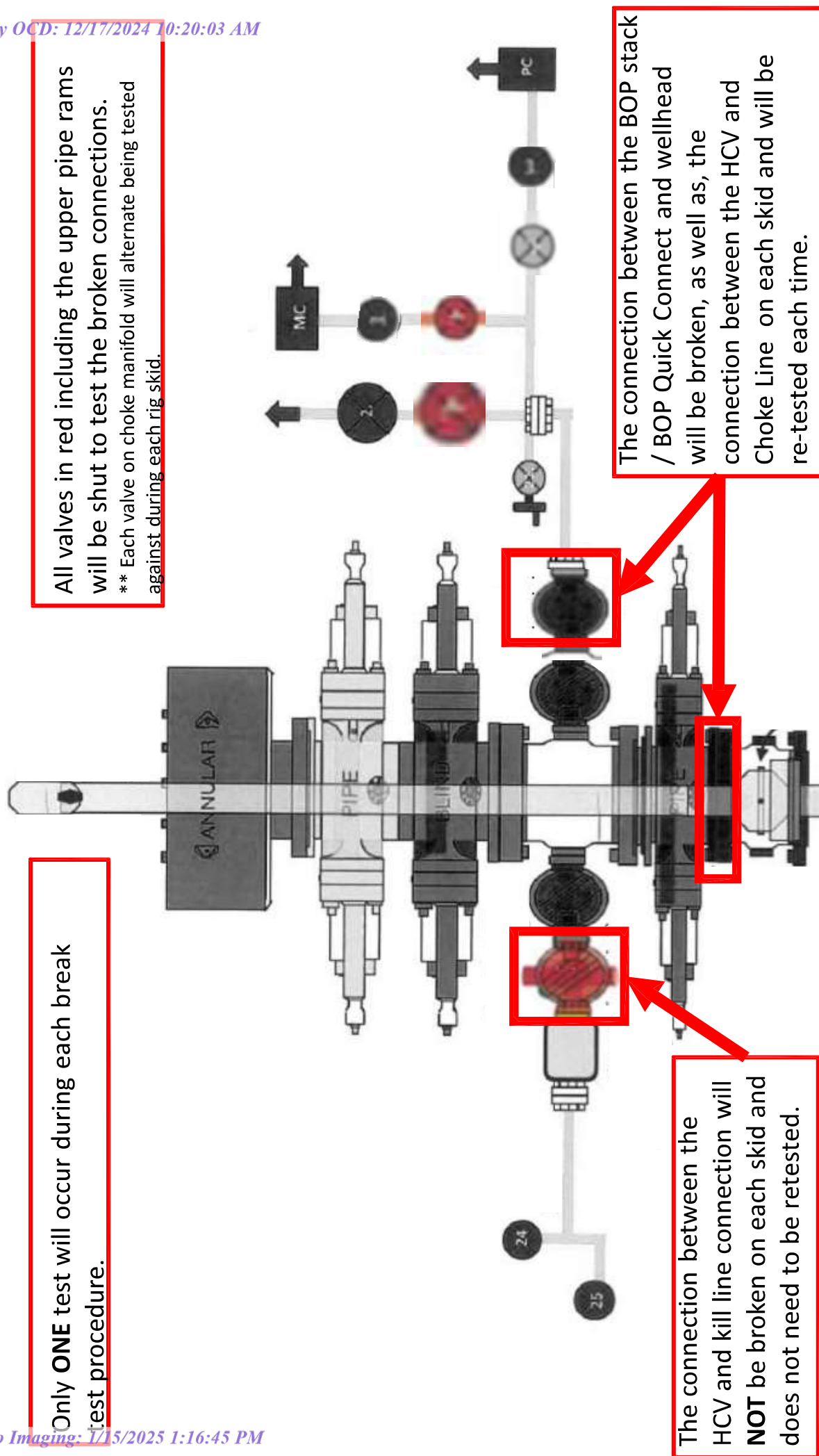
Summary

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.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, 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. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.



XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

**BLACK GOLD®**

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100**FAX: +1 (281) 602-4147****EMAIL: gesna.quality@gates.com****WEB: www.gates.com/oilandgas**

*NEW CHOKE HOSE
INSTALLED 02-10-2024*

CERTIFICATE OF CONFORMANCE

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

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

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

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

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

1/25/2024



H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

CUSTOMER

Company: Nabors Industries Inc.

Production description: 74621/66-1531

Sales order #: 529480

Customer reference: FG1213

TEST INFORMATION

Test procedure: GTS-04-053

Test pressure: 15000.00 psi

Test pressure hold: 3600.00 sec

Work pressure: 10000.00 psi

Work pressure hold:	900.00	sec
---------------------	--------	-----

Length difference: 0.00 %

Length difference: 0.00 inch

Visual check:

Pressure test result: PASS

Length measurement result:

Test operator: Travis

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Description: 74621/66-1531

Hose ID: 3" 16C CK

Part number:

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

Part number:

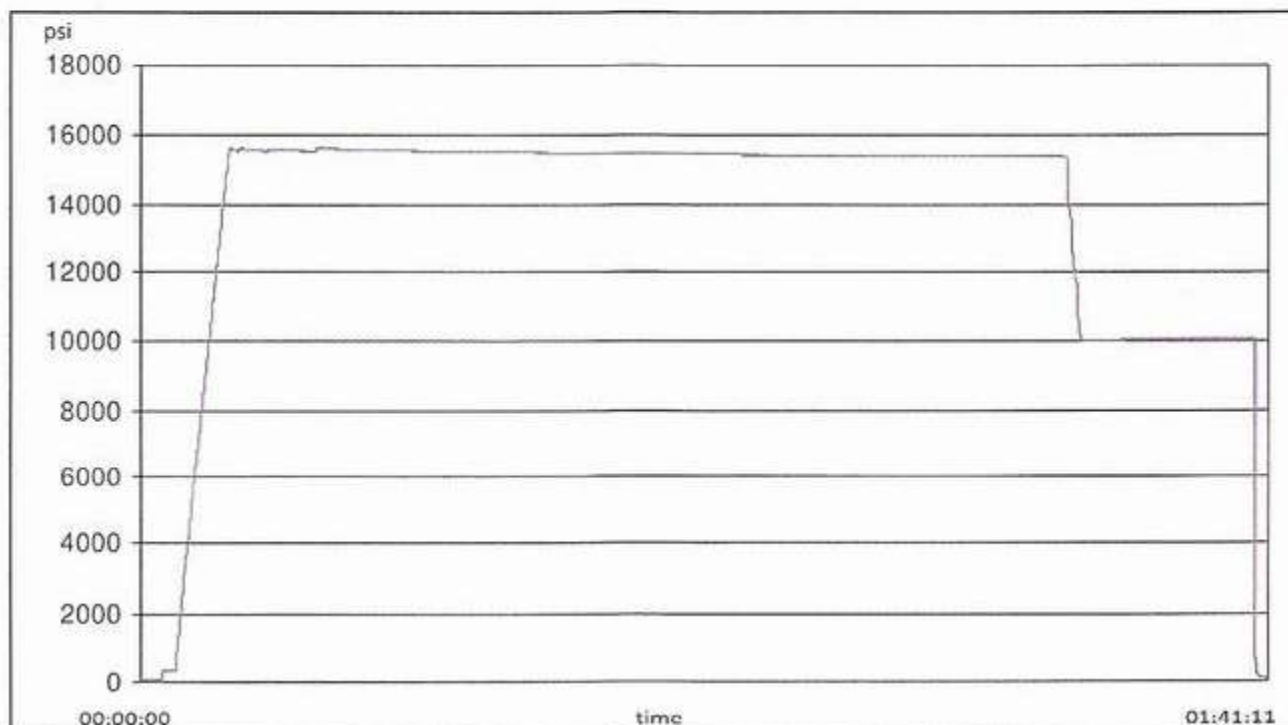
Description:

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

Part number:

Description:

Length: 45 feet





H3-15/16

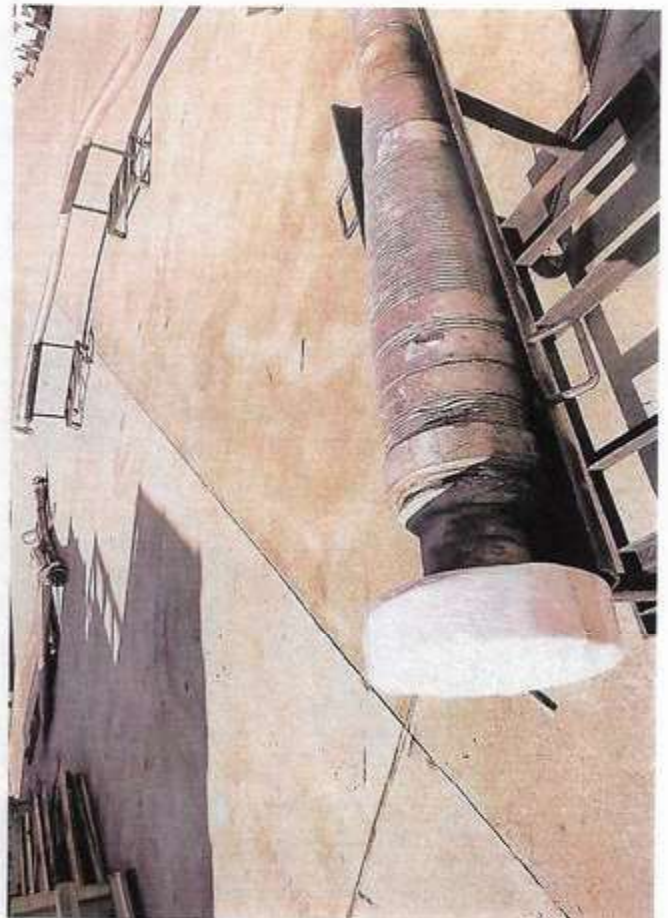
1/25/2024 11:48:06 AM

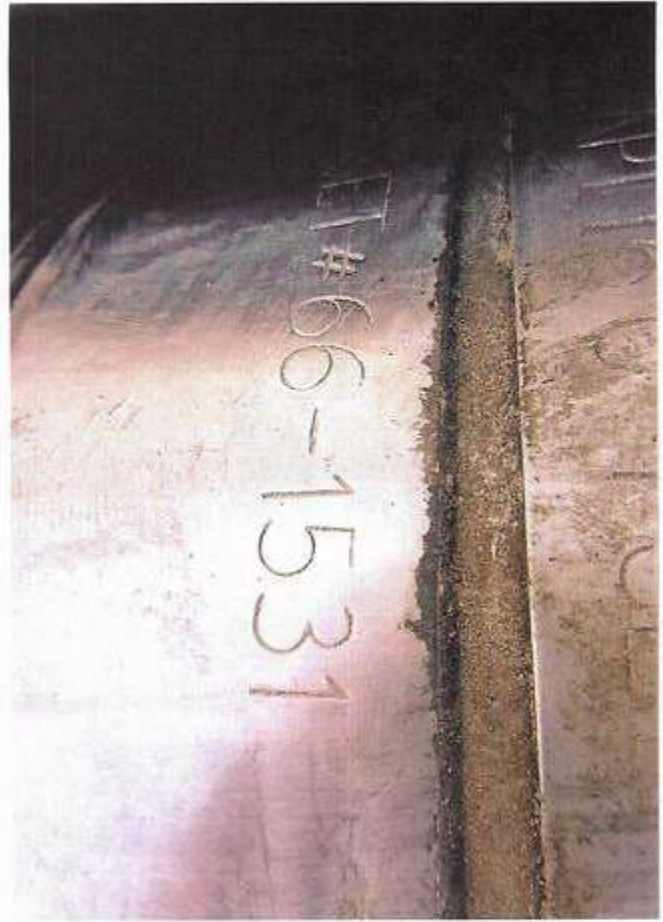
TEST REPORT

GAUGE TRACEABILITY

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

Comment







U. S. Steel Tubular Products

5.500" 20.00lb/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ®

11/8/2023 1:08:50 PM



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	--

UNCONTROLLED

Notes

1.

Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2.

Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4.

Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

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

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



U. S. Steel Tubular Products

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

11/29/2021 4:16:04 PM



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

UNCONTROLLED

Notes

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.

Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
3.

Uniaxial bend rating shown is structural only.
4.

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.).
5.

Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
6.

Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

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

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

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 412896

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 412896
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	1/15/2025