Received by UCD: \$2/2024 10:55:04 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 08/02/2024
Well Name: POKER LAKE UNIT 20 DTD	Well Location: T24S / R30E / SEC 20 / NWNE / 32.207795 / -103.902978	County or Parish/State: EDDY / NM
Well Number: 311H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM02860	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: 2781333

-

Type of Submission: Notice of Intent

Date Sundry Submitted: 03/24/2024

Date proposed operation will begin: 07/01/2024

Type of Action: APD Change Time Sundry Submitted: 08:32

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. FROM: TO: SHL: 952' FNL & 2502' FEL of Section 20-T24S-R30E 877' FNL & 2132' FEL of Section 20-T24S-R30E FTP: 100' FSL & 2410' FEL of Section 17-T24S-R30E 100' FNL & 2346' FEL of Section 20-T24S-R30E LTP: 330' FNL & 2410' FEL of Section 32-T23S-R30E 2565' FNL & 2348' FEL of Section 5-T54S-R30E BHL: 200' FNL & 2410' FEL of Section 32-T23S-R30E 2615' FNL & 2348' FEL of Section 5-T25S-R30E Proposed total depth will change from 30487' MD; 9277' TVD (Bone Springs) to 28235' MD; TVD 10102' (Bone Spring). See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Drilling Plan, MBS, BOP Variance, Well Control Plan

NOI Attachments

Procedure Description

PLU_20_DTD_311H_BLM_Change_Sundry_Attachments_3.24.2024_20240327195909.pdf

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Conditions of Approval

Additional

Sec_20_24S_30E_NMP_Sundry_2781333_Poker_Lake_Unit_20_DTD_311H_COAs_20240408100703.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

Name: XTO PERMIAN OPERATING LLC

Title: Permitting Manager

Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY

State: TX

City: SPRING

Phone: (720) 539-1673

Email address: RICHARD.L.REDUS@EXXONMOBIL.COM

Field

Representative Name: Street Address:

City: Phone:

Email address:

State:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Phone: 5752342234 Disposition: Approved Signature: Chris Walls Signed on: MAR 27, 2024 07:59 PM

BLM POC Title: Petroleum Engineer BLM POC Email Address: cwalls@blm.gov

Zip:

Disposition Date: 08/01/2024

Released to Imaging: 8/6/2024 2:48:08 PM

Received by OCD: 8/2/2024 10:55:04 AM

eceived by OCD. 0/2/2024	10.33.04 /11/1				I uge 5 0j
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT			Ol	ORM APPROVED MB No. 1004-0137 ires: October 31, 2021
Do not use th		ORTS ON WELLS to drill or to re-enter an APD) for such proposals		6. If Indian, Allottee or	r Tribe Name
SUBMI	TIN TRIPLICATE - Other inst	ructions on page 2		7. If Unit of CA/Agree	ement, Name and/or No.
1. Type of Well	Gas Well Other			8. Well Name and No.	
2. Name of Operator				9. API Well No.	
3a. Address		3b. Phone No. (include area code)		10. Field and Pool or Exploratory Area	
4. Location of Well (Footage, Sec.	, T.,R.,M., or Survey Description)		11. Country or Parish,	State
12.	CHECK THE APPROPRIATE E	BOX(ES) TO INDICATE NATURE	E OF NOTIO	CE, REPORT OR OTH	IER DATA
TYPE OF SUBMISSION		TY	PE OF ACT	ION	
Notice of Intent	Acidize	Deepen Hydraulic Fracturing		action (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction Plug and Abandon		mplete oorarily Abandon	Other
Final Abandonment Notice	Convert to Injection	=		r Disposal	
the proposal is to deepen direc the Bond under which the wor completion of the involved op	tionally or recomplete horizonta k will be perfonned or provide the erations. If the operation results	lly, give subsurface locations and n ne Bond No. on file with BLM/BIA in a multiple completion or recomp	neasured an A. Required a pletion in a r	d true vertical depths of subsequent reports mus new interval, a Form 31	rk and approximate duration thereof. If f all pertinent markers and zones. Attach st be filed within 30 days following 60-4 must be filed once testing has been he operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)					
1	Title				
Signature	Date				
THE SPACE FOR FEDE	RAL OR STATE OF	CEUSE			
Approved by					
	Title	Date			
Conditions of approval, if any, are attached. Approval of this notice does not warrant of certify that the applicant holds legal or equitable title to those rights in the subject leas which would entitle the applicant to conduct operations thereon.					
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		ully to make to any department or agency of the Unite	d States		

(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

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

Location of Well

0. SHL: NWNE / 952 FNL / 2502 FEL / TWSP: 24S / RANGE: 30E / SECTION: 20 / LAT: 32.207795 / LONG: -103.902978 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 330 FSL / 2410 FEL / TWSP: 24S / RANGE: 30E / SECTION: 8 / LAT: 32.22541 / LONG: -103.9027 (TVD: 9277 feet, MD: 15000 feet) PPP: SWSE / 100 FSL / 2410 FEL / TWSP: 24S / RANGE: 30E / SECTION: 17 / LAT: 32.210688 / LONG: -103.902674 (TVD: 9277 feet, MD: 9700 feet) PPP: SWSE / 330 FSL / 2410 FEL / TWSP: 24S / RANGE: 30E / SECTION: 5 / LAT: 32.24001 / LONG: -103.9027 (TVD: 9277 feet, MD: 20300 feet) BHL: NWNE / 200 FNL / 2410 FEL / TWSP: 23S / RANGE: 30E / SECTION: 32 / LAT: 32.268043 / LONG: -103.902682 (TVD: 9277 feet, MD: 30487 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 20 311H
LOCATION:	Sec 20-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

Changes approved through engineering via **Sundry 2781333** on 04/04/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H ₂ S	💽 No	C Yes		
Potash / WIPP	• None	C Secretary	C R-111-P	□ WIPP
Cave / Karst	• Low	C Medium	🖸 High	C Critical
Wellhead	C Conventional	Multibowl	C Both	O Diverter
Cementing	Primary Squeeze	Cont. Squeeze	□ EchoMeter	DV Tool
Special Req	Break Testing	Water Disposal	COM	🗹 Unit
Variance	Flex Hose	Casing Clearance	🗖 Pilot Hole	🗆 Capitan Reef
Variance	□ Four-String	Offline Cementing	🗖 Fluid-Filled	Open Annulus
	Γ	Batch APD / Sundry		

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 700 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. *Set depth adjusted per BLM geologist.*
 - 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 <u>8 hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead

cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - 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, Capitan Reef, or potash.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus after primary cementing stage. <u>Operator must run a CBL from TD of the 9-5/8" casing to surface.</u> <u>Submit results to the BLM.</u>

<u>If cement does not tie-back into the previous casing shoe, a third stage remediation BH</u> <u>may be performed. The appropriate BLM office shall be notified.</u>

- 3. The minimum required fill of cement behind the 6 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

<u>Unit Wells</u>

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.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 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 Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

Eddy County (API No. / US Well No. contains 30-015-#####)

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, <u>BLM_NM_CFO_DrillingNotifications@blm.gov;</u> (575) 361-2822

Lea County (API No. / US Well No. contains 30-025-#####)

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240; (575) 689-5981

- 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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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.
- 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, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity 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 <u>8 hours</u>. 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-P 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
- 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:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
 - e. 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.
 - a. 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).
 - b. 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.)
 - c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. 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.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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.

Received by OCD: 8/2/2024 10:55:04 AM

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

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

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

> OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT ¹API ID Code 10400089292 97814 Wildcat; Bone Spring ⁴ Property Code Well Number ⁵ Property Name POKER LAKE UNIT 20 DTD 311H OGRID No. **Operator Nan** Elevation **XTO PERMIAN OPERATING, LLC** 373075 3,261' ¹⁰ Surface Location UL or lot no. Section Township Range Lot Idn North/South line Feet from the East/West line County Feet from the В 20 24S 30E 877 NORTH 2,132 EAST EDDY "Bottom Hole Location If Different From Surface East/West line UL or lot no. Section Township Feet from the County Range Lot Idn Feet from the North/South line G 5 25S 30E 2,615 NORTH 2,348 EAST EDDY Joint or Infill ⁴Consolidation Code ¹²Dedicated Acres ⁵Order No. 1,199.95

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

16 			A		LEGEND	¹⁷ OPERATOR CERTIFICATION
SEC.		<i>SEC.</i> 002860	FTР- 100' FNL 2,346' FEL 	SHL 877' FNL 2,132' FEL	SECTION LINE PROPOSED WELL BORE NEW MEXICO MINERAL LEASE 330' BUFFER ALLOCATION AREA	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary
·					<u>LOT ACREAGE TABLE</u> LINE TABLE SECTION 5 LINE AZIMUTH LENGTH	pooling agreement or a compulsory pooling order heretofore entered by the division.
			С	 K	T-25-S R-30-E LOT 1 = 39.84 ACRES LOT 2 = 40.44 COPEC	Richard & Redux 3/24/2024
			-	PPP 0' FSL 2,326' FEL	L2 179'40'35" 18,380.07'	Signature Date
 					SHL (NAD 83 NME) SHL (NAD 27 NME) Y = 439,675.0 N Y = 439,615.7 N X = 674,810.8 E X = 63,827.1 E LAT. = 32,208007 °N LAT. = 32,207882 °N LONG. = 103,901782 °W LONG. = 103,901295 °W	Richard L Redus Printed Name
<u>SEC</u> .	_30	<i>SEC.</i> 24 30	!-S)-E		FTP (NAD 83 NME) FTP (NAD 27 NME) Y = 440,449.8 N Y = 440,390.5 N X = 674,595.6 E X = 633,411.9 E LAT. = 32.210139 °N LAT. = 32.210015 °N LONG. = 103.902468 °W LONG.9 C103.901981 °W	richard.l.redus@exxonmobil.com E-mail Address
		NMLC 00	69627A	- 2	PPP (NAD 83 NME) PPP (NAD 27 NME) Y = 435,261.5 N Y = 435,202.3 N	¹⁸ SURVEYOR
 	 		= <u> </u>	<u> </u>	$\begin{array}{ccccc} X = & 6746249E & X = & 633,4410E \\ LAT. = & 32.195877^\circ N & LAT. = & 32.195753^\circ N \\ LONG. = & 10302441^\circ W & LONG. = & 103091564^\circ W \\ \end{array}$	CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
SEC.					BHL (NAD 83 NME) BHL (NAD 27 NME) Y = 422,070.0 N Y = 422,011.2 N X = 674,699.4 E X = 633,515.2 E LAT. = 32,159615 "N LAT. = 32,159490 "N LONG. = 103,902370 "W LONG. = 103,901885 "W	3/15/2024 Date of Survey
 	 	B1068	50002 		$\begin{array}{c} \textbf{CORNER COORDINATES (NAD 83 NME)} \\ \textbf{A} - \textbf{Y} = 440,546.3 \ \textbf{N} \qquad \textbf{A} - \textbf{X} = 674,262.0 \ \textbf{E} \\ \textbf{B} - \textbf{Y} = 437,901.7 \ \textbf{N} \qquad \textbf{B} - \textbf{X} = 674,262.0 \ \textbf{E} \\ \textbf{C} - \textbf{Y} = 435,257.7 \ \textbf{N} \qquad \textbf{C} - \textbf{X} = 674,228.8 \ \textbf{E} \\ \textbf{D} - \textbf{Y} = 432,613.8 \ \textbf{N} \qquad \textbf{D} - \textbf{X} = 674,228.49 \ \textbf{E} \\ \textbf{E} - \textbf{Y} = 432,9070.0 \ \textbf{N} \qquad \textbf{E} - \textbf{X} = 674,334.4 \ \textbf{E} \\ \textbf{F} - \textbf{Y} = 422,970.0 \ \textbf{N} \qquad \textbf{E} - \textbf{X} = 674,334.4 \ \textbf{E} \\ \textbf{G} - \textbf{Y} = 424,860.6 \ \textbf{N} \qquad \textbf{G} - \textbf{X} = 674,336.7 \ \textbf{E} \\ \textbf{H} - \textbf{Y} = 422,013.8 \ \textbf{N} \qquad \textbf{H} - \textbf{X} = 674,366.7 \ \textbf{E} \end{array}$	Signature and Seal of Professional Surveyor:
	 	– – B106	G LOT 2		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	NOT DILLON AIRAS
SEC. T–25 R–30	5-5	<u>SEC.</u>	5 HL BHL 2,615' FNL 2,348' FEL	2,565' FNL 2,348' FEL P	$\begin{array}{c} \textbf{CORNER COORDINATES (NAD 27 NME)} \\ A - Y = \ \ 440, 487.1 \ \ N \\ A - X = \ 633, 078.3 \ \ E \\ B - Y = \ 437, 842.5 \ \ N \\ B - X = \ 633, 108.9 \ \ E \\ C - Y = \ 435, 198.6 \ \ N \\ C - X = \ 633, 108.9 \ \ E \\ D - Y = \ 432, 554.7 \ \ N \\ D - X = \ 633, 150.4 \ \ E \\ F - Y = \ 422, 911.0 \ \ N \\ E - X = \ 633, 160.4 \ \ E \\ F - Y = \ 422, 267.8 \ \ \ N \\ F - X = \ 633, 160.4 \ \ E \\ G - Y = \ 424, 621.7 \ \ \ N \\ F - X = \ 633, 170.5 \ \ E \\ H - Y = \ 422, 554.9 \ \ \ N \\ H - X = \ 633, 170.5 \ \ E \\ H - Y = \ 422, 621.7 \ \ \ N \\ H - X = \ 633, 170.5 \ \ E \\ H - Y = \ 427, 650.9 \ \ \ N \\ H - X = \ 633, 182.4 \ \ \ E \\ H - Y = \ 437, 857.0 \ \ \ N \\ J - X = \ 634, 417.9 \ \ \ \ E \\ J - Y = \ 437, 857.0 \ \ \ N \\ J - X = \ 634, 427.9 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	THE 23786 CONAL SUPA
	 				K-Y= 435,213.7 N K-X= 634,437.9 E L-Y= 432,570.5 N L-X= 634,463.1 E M-Y= 429,928.0 N M-X= 634,488.4 E N-Y= 427,285.3 N N-X= 634,500.0 E	MARK DILLON HARP 23786 Certificate Number
					O-Y= 424,639.8 N O-X= 634,511.5 E P-Y= 421,980.1 N P-X= 634,522.6 E	RP/DB 618.013003.06-

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DRILLING PLAN: BLM COMPLIANCE (Supplement to BLM 3160-3)

XTO Energy Inc. PLU 20 Dog Town Draw 311H Projected TD: 28234.75' MD / 10102' TVD SHL: 877' FNL & 2132' FEL , Section 20, T24S, R30E BHL: 2615' FNL & 2348' FEL , Section 5, T25S, R30E Eddy County, NM

1. Geologic Name of Surface Formation

Quaternary Α.

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	870'	Water
Top of Salt	1273'	Water
Base of Salt	3466'	Water
Delaware	3660'	Water
Brushy Canyon	6158'	Water/Oil/Gas
Bone Spring	7454'	Water
1st Bone Spring	8440'	Water/Oil/Gas
2nd Bone Spring	9258'	Water/Oil/Gas
3rd Bone Spring	9952'	Water/Oil/Gas
Target/Land Curve	10102'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 970' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 9.625 inch casing at 9246.36' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 28234.75 MD/TD and 6 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8946.36 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 970'	13.375	54.5	J-55	BTC	New	1.25	2.67	17.19
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	2.52	2.31	3.42
12.25	4000' – 9246.36'	9.625	40	HC L-80	втс	New	1.83	1.89	4.36
8.5	0' – 9146.36'	6	26	P-110	Semi-Premium	New	1.17	2.80	1.71
8.5	9146.36' - 28234.75'	6	26	P-110	Semi-Premium	New	1.17	2.53	1.92

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

surface casing per this Sundry

· XTO requests to not utilize centralizers in the curve and lateral

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

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

• Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less . XTO requests the option to use **5.5**" BTC Float equipment for the the production casing

Wellhead:

- . <u>Permanent Wellhead Multibowl System</u> A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom (or equivalent) B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange (or equivalent)
 - · Wellhead will be installed by manufacturer's representatives.
 - · Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - Operator will test the 9-5/8" casing per BLM Onshore Order 2
 - · Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 970'

Lead: 490 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water) Top of Cement: Surface Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 9.625, 40 New casing to be set at +/- 9246.36'1st StageOptional Lead: 1040 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)TOC: SurfaceTail: 890 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)TOC: Brushy Canyon @ 6158Compressives:12-hr =900 psi24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water) Tail: 2170 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water) Top of Cement: 0 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 9-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6158') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 6, 26 New Semi-Premium, P-110 casing to be set at +/- 28234.75'

Lead: 40 sxs NeoCem	(mixed at 11.5	opg, 2.69 ft3/sx, 1	5.00 gal/sx water) Top of Cement:	8946.36 feet
Tail: 3190 sxs VersaCe	m (mixed at 13	.2 ppg, 1.51 ft3/s	x, 8.38 gal/sx water) Top of Cement:	9446.36 feet
Compressives:	12-hr =	800 psi	24 hr = 1500 psi	

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

5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 3136 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 9.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

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

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

hole on each of the wells.

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to **ONLY** retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

6. Proposed Mud Circulation System

INTERVAL	Hole Size		MW	Viscosity	Fluid Loss
INTERVAL	Hole Size	Mud Type	(ppg)	(sec/qt)	(cc)
0' - 970'	17.5	FW/Native	8.4-8.9	35-40	NC
970' - 9246.36'	12.25	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
9246.36' - 28234.75'	8.5	OBM	10.2-10.7	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5358 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

Well Plan Report - Poker Lake Unit 20 DTD South 311H

28234.75 ft	
10102.00 ft	
New Mexico East - NAD 27	
439615.70 ft	
633627.10 ft	
3293.00 ft	
3261.00 ft	
Grid	
0.23 Deg	
	10102.00 ft New Mexico East - NAD 27 439615.70 ft 633627.10 ft 3293.00 ft 3261.00 ft Grid

Plan Sections	Po	oker Lake Unit 20	DTD South 311H	4				
Measured			TVD			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
1543.23	8.86	344.48	1541.47	32.97	-9.16	2.00	0.00	2.00
6317.33	8.86	344.48	6258.53	741.83	-206.04	0.00	0.00	0.00
6760.56	0.00	0.00	6700.00	774.80	-215.20	-2.00	0.00	2.00
9446.36	0.00	0.00	9385.80	774.80	-215.20	0.00	0.00	0.00
10571.36	90.00	179.68	10102.00	58.61	-211.18	8.00	0.00	8.00
28184.71	90.00	179.68	10102.00	-17554.46	-112.19	0.00	0.00	0.00 LTP 18
28234.75	90.00	179.68	10102.00	-17604.50	-111.91	0.00	0.00	0.00 BHL 18

Position l	Jncertainty
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Poker Lake Unit 20 DTD South 311H

Measured TVD Highside Lateral Vertical Magnitude Semi-major Semi-minor Semi-minor Tool

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Well Plan Report

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./20/24, 0427 1 10	1							110		epon				
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.309	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.373	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.442	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.484	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.529	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.579	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.632	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	344.477	1199.980	4.718	0.000	4.819	0.000	2.688	0.000	0.000	5.236	4.254	122.384	MWD+IFR1+MS
1300.000	4.000	344.477	1299.838	5.552	0.000	5.163	0.000	2.748	0.000	0.000	5.935	4.728	109.825	MWD+IFR1+MS
1400.000	6.000	344.477	1399.452	6.289	0.000	5.508	0.000	2.813	0.000	0.000	6.628	5.118	103.402	MWD+IFR1+MS
1500.000	8.000	344.477	1498.702	6.960	0.000	5.854	0.000	2.886	0.000	0.000	7.287	5.480	99.873	MWD+IFR1+MS
1543.232	8.865	344.477	1541.466	7.106	0.000	5.994	0.000	2.911	0.000	0.000	7.439	5.627	99.579	MWD+IFR1+MS
1600.000	8.865	344.477	1597.556	7.274	0.000	6.177	0.000	2.949	0.000	0.000	7.603	5.819	99.544	MWD+IFR1+MS
1700.000	8.865	344.477	1696.361	7.574	0.000	6.517	0.000	3.022	0.000	0.000	7.900	6.164	99.850	MWD+IFR1+MS
1800.000	8.865	344.477	1795.167	7.889	0.000	6.871	0.000	3.099	0.000	0.000	8.219	6.513	100.341	MWD+IFR1+MS
1900.000	8.865	344.477	1893.972	8.209	0.000	7.225	0.000	3.178	0.000	0.000	8.542	6.865	100.805	MWD+IFR1+MS
2000.000	8.865	344.477	1992.778	8.534	0.000	7.581	0.000	3.259	0.000	0.000	8.869	7.217	101.241	MWD+IFR1+MS
2100.000	8.865	344.477	2091.583	8.862	0.000	7.938	0.000	3.343	0.000	0.000	9.199	7.571	101.652	MWD+IFR1+MS
2200.000	8.865	344.477	2190.389	9.194	0.000	8.296	0.000	3.429	0.000	0.000	9.533	7.926	102.041	MWD+IFR1+MS
2300.000	8.865	344.477	2289.194	9.529	0.000	8.655	0.000	3.517	0.000	0.000	9.869	8.282	102.407	MWD+IFR1+MS
2400.000	8.865	344.477	2388.000	9.867	0.000	9.015	0.000	3.608	0.000	0.000	10.208	8.639	102.752	MWD+IFR1+MS
2500.000	8.865	344.477	2486.805	10.208	0.000	9.375	0.000	3.700	0.000	0.000	10.549	8.996	103.079	MWD+IFR1+MS
2600.000	8.865	344.477	2585.611	10.551	0.000	9.736	0.000	3.793	0.000	0.000	10.892	9.355	103.387	MWD+IFR1+MS
2700.000	8.865	344.477	2684.416	10.896	0.000	10.097	0.000	3.889	0.000	0.000	11.237	9.714	103.679	MWD+IFR1+MS
2800.000	8.865	344.477	2783.222	11.243	0.000	10.459	0.000	3.986	0.000	0.000	11.583	10.073	103.954	MWD+IFR1+MS
2900.000	8.865	344.477	2882.027	11.592	0.000	10.821	0.000	4.085	0.000	0.000	11.932	10.433	104.215	MWD+IFR1+MS

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3000.000	8.865 344	4.477 2980	.833 11.942	0.000	11.184	0.000	4.186	0.000	0.000	12.281	10.794	104.462	MWD+IFR1+MS
3100.000	8.865 344	4.477 3079	.638 12.294	0.000	11.547	0.000	4.288	0.000	0.000	12.632	11.155	104.696	MWD+IFR1+MS
3200.000	8.865 344	4.477 3178	.444 12.647	0.000	11.910	0.000	4.391	0.000	0.000	12.984	11.516	104.917	MWD+IFR1+MS
3300.000	8.865 344	4.477 3277	.249 13.001	0.000	12.274	0.000	4.496	0.000	0.000	13.337	11.878	105.126	MWD+IFR1+MS
3400.000	8.865 344	4.477 3376	.055 13.356	0.000	12.637	0.000	4.603	0.000	0.000	13.691	12.240	105.325	MWD+IFR1+MS
3500.000	8.865 344	4.477 3474	.860 13.713	0.000	13.002	0.000	4.711	0.000	0.000	14.046	12.602	105.513	MWD+IFR1+MS
3600.000	8.865 344	4.477 3573	.666 14.070	0.000	13.366	0.000	4.820	0.000	0.000	14.402	12.965	105.691	MWD+IFR1+MS
3700.000	8.865 344	4.477 3672	.472 14.428	0.000	13.730	0.000	4.931	0.000	0.000	14.758	13.328	105.860	MWD+IFR1+MS
3800.000	8.865 344	4.477 3771	.277 14.787	0.000	14.095	0.000	5.044	0.000	0.000	15.115	13.691	106.020	MWD+IFR1+MS
3900.000	8.865 344	4.477 3870	.083 15.147	0.000	14.460	0.000	5.158	0.000	0.000	15.473	14.054	106.172	MWD+IFR1+MS
4000.000	8.865 344	4.477 3968	.888 15.508	0.000	14.825	0.000	5.273	0.000	0.000	15.832	14.418	106.316	MWD+IFR1+MS
4100.000	8.865 344	4.477 4067	.694 15.869	0.000	15.190	0.000	5.390	0.000	0.000	16.191	14.782	106.453	MWD+IFR1+MS
4200.000	8.865 344	4.477 4166	.499 16.231	0.000	15.555	0.000	5.509	0.000	0.000	16.551	15.146	106.582	MWD+IFR1+MS
4300.000	8.865 344	4.477 4265	.305 16.593	0.000	15.921	0.000	5.629	0.000	0.000	16.911	15.510	106.705	MWD+IFR1+MS
4400.000	8.865 344	4.477 4364	.110 16.956	0.000	16.286	0.000	5.751	0.000	0.000	17.271	15.874	106.821	MWD+IFR1+MS
4500.000	8.865 344	4.477 4462	.916 17.320	0.000	16.652	0.000	5.875	0.000	0.000	17.632	16.239	106.931	MWD+IFR1+MS
4600.000	8.865 344	4.477 4561	.721 17.683	0.000	17.018	0.000	6.000	0.000	0.000	17.994	16.603	107.036	MWD+IFR1+MS
4700.000	8.865 344	4.477 4660	.527 18.048	0.000	17.384	0.000	6.126	0.000	0.000	18.356	16.968	107.134	MWD+IFR1+MS
4800.000	8.865 344	4.477 4759	.332 18.413	0.000	17.750	0.000	6.255	0.000	0.000	18.718	17.333	107.228	MWD+IFR1+MS
4900.000	8.865 344	4.477 4858	.138 18.778	0.000	18.116	0.000	6.385	0.000	0.000	19.081	17.698	107.316	MWD+IFR1+MS
5000.000	8.865 344	4.477 4956	.943 19.143	0.000	18.482	0.000	6.517	0.000	0.000	19.444	18.063	107.400	MWD+IFR1+MS
5100.000	8.865 344	4.477 5055	.749 19.509	0.000	18.848	0.000	6.650	0.000	0.000	19.807	18.429	107.479	MWD+IFR1+MS
5200.000	8.865 344	4.477 5154	.554 19.875	0.000	19.214	0.000	6.786	0.000	0.000	20.170	18.794	107.553	MWD+IFR1+MS
5300.000	8.865 344	4.477 5253	.360 20.242	0.000	19.581	0.000	6.923	0.000	0.000	20.534	19.159	107.623	MWD+IFR1+MS
5400.000	8.865 344	4.477 5352	.165 20.609	0.000	19.947	0.000	7.062	0.000	0.000	20.898	19.525	107.689	MWD+IFR1+MS
5500.000	8.865 344	4.477 5450	.971 20.976	0.000	20.313	0.000	7.203	0.000	0.000	21.262	19.891	107.752	MWD+IFR1+MS
5600.000	8.865 344	4.477 5549	.776 21.343	0.000	20.680	0.000	7.346	0.000	0.000	21.627	20.256	107.810	MWD+IFR1+MS
5700.000	8.865 344		.582 21.711	0.000	21.046	0.000	7.491	0.000	0.000	21.992	20.622	107.865	MWD+IFR1+MS
5800.000	8.865 344	4.477 5747	.387 22.079	0.000	21.413	0.000	7.638	0.000	0.000	22.357	20.988	107.917	MWD+IFR1+MS
5900.000	8.865 344	4.477 5846	.193 22.447	0.000	21.780	0.000	7.787	0.000	0.000	22.722	21.354	107.965	MWD+IFR1+MS
6000.000	8.865 344			0.000		0.000	7.938		0.000	23.087	21.720	108.010	MWD+IFR1+MS
6100.000	8.865 344	4.477 6043		0.000	22.513	0.000	8.091		0.000	23.453	22.087	108.052	MWD+IFR1+MS
6200.000	8.865 344	4.477 6142	.609 23.553	0.000	22.880	0.000	8.246	0.000	0.000	23.819	22.453	108.091	MWD+IFR1+MS

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6300.000	8.865	344.477	6241.415	23.922 0.000	23.247	0.000	8.403	0.000	0.000	24.185	22.819	108.127	MWD+IFR1+MS
6317.326	8.865	344.477	6258.534	23.984 0.000	23.309	0.000	8.430	0.000	0.000	24.246	22.882	108.111	MWD+IFR1+MS
6400.000	7.211	344.477	6340.393	24.307 0.000	23.606	0.000	8.562	0.000	0.000	24.549	23.185	107.857	MWD+IFR1+MS
6500.000	5.211	344.477	6439.801	24.742 0.000	23.967	0.000	8.724	0.000	0.000	24.982	23.555	106.575	MWD+IFR1+MS
6600.000	3.211	344.477	6539.526	25.160 0.000	24.324	0.000	8.881	0.000	0.000	25.428	23.921	105.236	MWD+IFR1+MS
6700.000	1.211	344.477	6639.446	25.541 0.000	24.677	0.000	9.035	0.000	0.000	25.866	24.280	104.075	MWD+IFR1+MS
6760.558	0.000	0.000	6700.000	26.001 0.000	24.586	0.000	9.127	0.000	0.000	26.091	24.491	103.915	MWD+IFR1+MS
6800.000	0.000	0.000	6739.442	26.132 0.000	24.722	0.000	9.187	0.000	0.000	26.222	24.627	103.924	MWD+IFR1+MS
6900.000	0.000	0.000	6839.442	26.465 0.000	25.069	0.000	9.340	0.000	0.000	26.555	24.973	104.034	MWD+IFR1+MS
7000.000	0.000	0.000	6939.442	26.801 0.000	25.421	0.000	9.497	0.000	0.000	26.894	25.322	104.258	MWD+IFR1+MS
7100.000	0.000	0.000	7039.442	27.138 0.000	25.772	0.000	9.655	0.000	0.000	27.233	25.672	104.478	MWD+IFR1+MS
7200.000	0.000	0.000	7139.442	27.475 0.000	26.124	0.000	9.817	0.000	0.000	27.573	26.021	104.695	MWD+IFR1+MS
7300.000	0.000	0.000	7239.442	27.813 0.000	26.476	0.000	9.981	0.000	0.000	27.913	26.371	104.910	MWD+IFR1+MS
7400.000	0.000	0.000	7339.442	28.152 0.000	26.828	0.000	10.148	0.000	0.000	28.253	26.721	105.121	MWD+IFR1+MS
7500.000	0.000	0.000	7439.442	28.491 0.000	27.180	0.000	10.318	0.000	0.000	28.595	27.071	105.330	MWD+IFR1+MS
7600.000	0.000	0.000	7539.442	28.830 0.000	27.532	0.000	10.491	0.000	0.000	28.936	27.421	105.536	MWD+IFR1+MS
7700.000	0.000	0.000	7639.442	29.170 0.000	27.885	0.000	10.666	0.000	0.000	29.278	27.771	105.739	MWD+IFR1+MS
7800.000	0.000	0.000	7739.442	29.510 0.000	28.237	0.000	10.845	0.000	0.000	29.621	28.122	105.939	MWD+IFR1+MS
7900.000	0.000	0.000	7839.442	29.851 0.000	28.590	0.000	11.026	0.000	0.000	29.964	28.472	106.137	MWD+IFR1+MS
8000.000	0.000	0.000	7939.442	30.192 0.000	28.943	0.000	11.210	0.000	0.000	30.307	28.823	106.332	MWD+IFR1+MS
8100.000	0.000	0.000	8039.442	30.534 0.000	29.296	0.000	11.397	0.000	0.000	30.651	29.174	106.525	MWD+IFR1+MS
8200.000	0.000	0.000	8139.442	30.876 0.000	29.650	0.000	11.587	0.000	0.000	30.995	29.525	106.715	MWD+IFR1+MS
8300.000	0.000	0.000	8239.442	31.218 0.000	30.003	0.000	11.779	0.000	0.000	31.339	29.877	106.902	MWD+IFR1+MS
8400.000	0.000	0.000	8339.442	31.561 0.000	30.356	0.000	11.975	0.000	0.000	31.684	30.228	107.087	MWD+IFR1+MS
8500.000	0.000	0.000	8439.442	31.904 0.000	30.710	0.000	12.174	0.000	0.000	32.029	30.579	107.269	MWD+IFR1+MS
8600.000	0.000	0.000	8539.442	32.247 0.000	31.064	0.000	12.375	0.000	0.000	32.374	30.931	107.449	MWD+IFR1+MS
8700.000	0.000	0.000	8639.442	32.591 0.000	31.418	0.000	12.580	0.000	0.000	32.720	31.283	107.627	MWD+IFR1+MS
8800.000	0.000	0.000	8739.442	32.935 0.000	31.771	0.000	12.788	0.000	0.000	33.066	31.635	107.802	MWD+IFR1+MS
8900.000	0.000	0.000	8839.442	33.279 0.000	32.125	0.000	12.998	0.000	0.000	33.412	31.987	107.975	MWD+IFR1+MS
9000.000	0.000	0.000	8939.442	33.624 0.000	32.480	0.000	13.212		0.000	33.759	32.339	108.146	MWD+IFR1+MS
9100.000	0.000	0.000	9039.442	33.969 0.000	32.834	0.000	13.428	0.000	0.000	34.106	32.691	108.314	MWD+IFR1+MS
9200.000	0.000	0.000	9139.442	34.314 0.000	33.188	0.000	13.648	0.000	0.000	34.453	33.044	108.480	MWD+IFR1+MS
9300.000	0.000	0.000	9239.442	34.659 0.000	33.542	0.000	13.870	0.000	0.000	34.800	33.396	108.644	MWD+IFR1+MS

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9400.000	0.000	0.000	9339.442	35.005 0.000	33.897 0.000	14.096 0.000	0.000	35.148	33.749	108.805 MWD+IFR1+MS
9446.358	0.000	0.000	9385.800	35.164 0.000	34.059 0.000	14.201 0.000	0.000	35.306	33.912	108.821 MWD+IFR1+MS
9500.000	4.291	179.678	9439.392	35.077 0.000	34.241 -0.000	14.323 0.000	0.000	35.497	34.091	108.562 MWD+IFR1+MS
9600.000	12.291	179.678	9538.266	35.143 0.000	34.544 -0.000	14.587 0.000	0.000	36.437	34.424	103.598 MWD+IFR1+MS
9700.000	20.291	179.678	9634.173	35.155 0.000	34.827 -0.000	15.015 0.000	0.000	37.740	34.724	100.093 MWD+IFR1+MS
9800.000	28.291	179.678	9725.245	34.658 0.000	35.085 -0.000	15.670 0.000	0.000	38.878	34.986	98.622 MWD+IFR1+MS
9900.000	36.291	179.678	9809.711	33.731 0.000	35.317 -0.000	16.593 0.000	0.000	39.828	35.216	97.916 MWD+IFR1+MS
10000.000	44.291	179.678	9885.926	32.480 0.000	35.520 -0.000	17.785 0.000	0.000	40.583	35.415	97.586 MWD+IFR1+MS
10100.000	52.291	179.678	9952.406	31.041 0.000	35.695 -0.000	19.218 0.000	0.000	41.145	35.585	97.470 MWD+IFR1+MS
10200.000	60.291	179.678	10007.858	29.588 0.000	35.840 -0.000	20.838 0.000	0.000	41.531	35.724	97.484 MWD+IFR1+MS
10300.000	68.291	179.678	10051.202	28.322 0.000	35.956 -0.000	22.583 0.000	0.000	41.764	35.836	97.570 MWD+IFR1+MS
10400.000	76.291	179.678	10081.595	27.461 0.000	36.044 -0.000	24.389 0.000	0.000	41.877	35.919	97.675 MWD+IFR1+MS
10500.000	84.291	179.678	10098.445	27.200 0.000	36.103 -0.000	26.195 0.000	0.000	41.912	35.976	97.739 MWD+IFR1+MS
10571.358	90.000	179.678	10101.997	26.912 0.000	36.124 -0.000	26.912 0.000	0.000	41.914	35.999	97.709 MWD+IFR1+MS
10600.000	90.000	179.678	10101.997	26.975 0.000	36.129 -0.000	26.975 0.000	0.000	41.914	36.005	97.685 MWD+IFR1+MS
10700.000	90.000	179.678	10101.997	27.151 0.000	36.162 -0.000	27.151 0.000	0.000	41.914	36.041	97.620 MWD+IFR1+MS
10800.000	90.000	179.678	10101.997	27.353 0.000	36.213 -0.000	27.353 0.000	0.000	41.915	36.095	97.577 MWD+IFR1+MS
10900.000	90.000	179.678	10101.997	27.575 0.000	36.281 -0.000	27.575 0.000	0.000	41.916	36.165	97.553 MWD+IFR1+MS
11000.000	90.000	179.678	10101.997	27.818 0.000	36.365 -0.000	27.818 0.000	0.000	41.918	36.251	97.548 MWD+IFR1+MS
11100.000	90.000	179.678	10101.997	28.080 0.000	36.465 -0.000	28.080 0.000	0.000	41.921	36.352	97.563 MWD+IFR1+MS
11200.000	90.000	179.678	10101.997	28.362 0.000	36.581 -0.000	28.362 0.000	0.000	41.925	36.469	97.599 MWD+IFR1+MS
11300.000	90.000	179.678	10101.997	28.662 0.000	36.712 -0.000	28.662 0.000	0.000	41.930	36.602	97.658 MWD+IFR1+MS
11400.000	90.000	179.678	10101.997	28.981 0.000	36.858 -0.000	28.981 0.000	0.000	41.936	36.749	97.741 MWD+IFR1+MS
11500.000	90.000	179.678	10101.997	29.317 0.000	37.020 -0.000	29.317 0.000	0.000	41.942	36.912	97.852 MWD+IFR1+MS
11600.000	90.000	179.678	10101.997	29.670 0.000	37.197 -0.000	29.670 0.000	0.000	41.949	37.089	97.992 MWD+IFR1+MS
11700.000	90.000	179.678	10101.997	30.040 0.000	37.389 -0.000	30.040 0.000	0.000	41.957	37.281	98.168 MWD+IFR1+MS
11800.000	90.000	179.678	10101.997	30.425 0.000	37.595 -0.000	30.425 0.000	0.000	41.967	37.486	98.384 MWD+IFR1+MS
11900.000	90.000	179.678	10101.997	30.825 0.000	37.816 -0.000	30.825 0.000	0.000	41.977	37.706	98.648 MWD+IFR1+MS
12000.000	90.000	179.678	10101.997	31.240 0.000	38.051 -0.000	31.240 0.000	0.000	41.988	37.940	98.968 MWD+IFR1+MS
12100.000	90.000	179.678	10101.997	31.669 0.000	38.299 -0.000	31.669 0.000	0.000	42.000	38.186	99.359 MWD+IFR1+MS
12200.000	90.000	179.678	10101.997	32.112 0.000		32.112 0.000	0.000	42.014	38.446	99.836 MWD+IFR1+MS
12300.000	90.000	179.678	10101.997	32.567 0.000		32.567 0.000	0.000	42.029	38.717	100.424 MWD+IFR1+MS
12400.000	90.000	179.678	10101.997	33.035 0.000	39.126 -0.000	33.035 0.000	0.000	42.047	39.001	101.155 MWD+IFR1+MS

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12500.000	90.000	179.678	10101.997	33.515 0	.000	39.427 -0.000	33.515 0	0.00 0.00	42.066	39.295	102.079	MWD+IFR1+MS
12600.000	90.000	179.678	10101.997	34.005 0	.000	39.741 -0.000	34.005 0	0.00 0.00	42.088	39.600	103.267	MWD+IFR1+MS
12700.000	90.000	179.678	10101.997	34.507 0	.000	40.067 -0.000	34.507 0	0.00 0.00	0 42.115	39.913	104.832	MWD+IFR1+MS
12800.000	90.000	179.678	10101.997	35.019 0	.000	40.405 -0.000	35.019 0	0.00 0.00	42.147	40.233	106.953	MWD+IFR1+MS
12900.000	90.000	179.678	10101.997	35.542 0	.000	40.755 -0.000	35.542 0	0.00 0.00	42.188	40.556	109.927	MWD+IFR1+MS
13000.000	90.000	179.678	10101.997	36.073 0	.000	41.116 -0.000	36.073 0	0.00 0.00	0 42.244	40.876	114.243	MWD+IFR1+MS
13100.000	90.000	179.678	10101.997	36.614 0	.000	41.487 -0.000	36.614 0	0.00 0.00	42.326	41.182	120.628	MWD+IFR1+MS
13200.000	90.000	179.678	10101.997	37.164 0	.000	41.870 -0.000	37.164 0	0.00 0.00	0 42.453	41.453	129.708	MWD+IFR1+MS
13300.000	90.000	179.678	10101.997	37.721 0	.000	42.263 -0.000	37.721 0	0.00 0.00	42.649	41.668	-39.324	MWD+IFR1+MS
13400.000	90.000	179.678	10101.997	38.287 0	.000	42.666 -0.000	38.287 0	0.00 0.00	42.921	41.816	-29.192	MWD+IFR1+MS
13500.000	90.000	179.678	10101.997	38.860 0	.000	43.079 -0.000	38.860 0	0.00 0.00	43.254	41.913	-21.683	MWD+IFR1+MS
13600.000	90.000	179.678	10101.997	39.441 0	.000	43.501 -0.000	39.441 0	0.00 0.00	43.628	41.980	-16.572	MWD+IFR1+MS
13700.000	90.000	179.678	10101.997	40.029 0	.000	43.933 -0.000	40.029 0	0.00 0.00	0 44.028	42.031	-13.084	MWD+IFR1+MS
13800.000	90.000	179.678	10101.997	40.623 0	.000	44.373 -0.000	40.623 0	0.00 0.00	0 44.448	42.071	-10.627	MWD+IFR1+MS
13900.000	90.000	179.678	10101.997	41.224 0	.000	44.823 -0.000	41.224 0	0.00 0.00	44.882	42.107	-8.831	MWD+IFR1+MS
14000.000	90.000	179.678	10101.997	41.830 0	.000	45.281 -0.000	41.830 0	0.00 0.00	45.329	42.138	-7.475	MWD+IFR1+MS
14100.000	90.000	179.678	10101.997	42.443 0	.000	45.747 -0.000	42.443 0	0.00 0.00	45.786	42.168	-6.421	MWD+IFR1+MS
14200.000	90.000	179.678	10101.997	43.061 0	.000	46.221 -0.000	43.061 0	0.000 0.00	46.254	42.196	-5.582	MWD+IFR1+MS
14300.000	90.000	179.678	10101.997	43.685 0	.000	46.703 -0.000	43.685 0	0.00 0.00	46.730	42.224	-4.902	MWD+IFR1+MS
14400.000	90.000	179.678	10101.997	44.313 0	.000	47.192 -0.000	44.313 0	0.000 0.00	47.215	42.250	-4.341	MWD+IFR1+MS
14500.000	90.000	179.678	10101.997	44.947 0	.000	47.689 -0.000	44.947 0	0.00 0.00	47.709	42.277	-3.872	MWD+IFR1+MS
14600.000	90.000	179.678	10101.997	45.585 0	.000	48.193 -0.000	45.585 0	0.00 0.00	48.209	42.304	-3.474	MWD+IFR1+MS
14700.000	90.000	179.678	10101.997	46.228 0	.000	48.703 -0.000	46.228 0	0.00 0.00	48.718	42.330	-3.134	MWD+IFR1+MS
14800.000	90.000	179.678	10101.997	46.875 0	.000	49.220 -0.000	46.875 0	0.000 0.00	49.233	42.357	- 2.840	MWD+IFR1+MS
14900.000	90.000	179.678	10101.997	47.526 0	.000	49.744 -0.000	47.526 0	0.00 0.00	49.755	42.384	- 2.584	MWD+IFR1+MS
15000.000	90.000	179.678	10101.997	48.181 0	.000	50.274 -0.000	48.181 0	0.00 0.00	50.283	42.412	-2.360	MWD+IFR1+MS
15100.000	90.000	179.678	10101.997	48.840 0	.000	50.809 -0.000	48.840 0	0.00 0.00	0 50.817	42.439	-2.162	MWD+IFR1+MS
15200.000	90.000	179.678	10101.997	49.503 0	.000	51.351 -0.000	49.503 0	0.00 0.00	0 51.358	42.467	-1.987	MWD+IFR1+MS
15300.000	90.000	179.678	10101.997	50.169 0	.000	51.898 -0.000	50.169 0	0.00 0.00	0 51.904	42.496	-1.830	MWD+IFR1+MS
15400.000	90.000	179.678	10101.997	50.839 0	.000	52.451 -0.000	50.839 0	0.00 0.00	0 52.456	42.524	-1.690	MWD+IFR1+MS
15500.000	90.000	179.678	10101.997	51.512 0	.000	53.009 -0.000	51.512 0		53.013	42.553	-1.564	MWD+IFR1+MS
15600.000	90.000	179.678	10101.997	52.188 0	.000	53.572 -0.000	52.188 0	0.00 0.00	53.576	42.583	-1.450	MWD+IFR1+MS
15700.000	90.000	179.678	10101.997	52.867 0	.000	54.140 -0.000	52.867 0	0.00 0.00	54.143	42.613	-1.347	MWD+IFR1+MS

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15800.000	90.000	179.678	10101.997	53.549 0.0	00	54.713 -0.000	53.549	0.000	0.000	54.716	42.644	-1.253	MWD+IFR1+MS
15900.000	90.000	179.678	10101.997	54.234 0.0	00	55.290 -0.000	54.234	0.000	0.000	55.293	42.675	-1.168	MWD+IFR1+MS
16000.000	90.000	179.678	10101.997	54.921 0.0	00	55.873 -0.000	54.921	0.000	0.000	55.875	42.706	-1.090	MWD+IFR1+MS
16100.000	90.000	179.678	10101.997	55.611 0.0	00	56.459 -0.000	55.611	0.000	0.000	56.461	42.738	-1.018	MWD+IFR1+MS
16200.000	90.000	179.678	10101.997	56.303 0.0	00	57.050 -0.000	56.303	0.000	0.000	57.051	42.770	-0.953	MWD+IFR1+MS
16300.000	90.000	179.678	10101.997	56.998 0.0	00	57.645 -0.000	56.998	0.000	0.000	57.646	42.803	-0.892	MWD+IFR1+MS
16400.000	90.000	179.678	10101.997	57.695 0.0	00	58.243 -0.000	57.695	0.000	0.000	58.244	42.836	-0.836	MWD+IFR1+MS
16500.000	90.000	179.678	10101.997	58.395 0.0	00	58.846 -0.000	58.395	0.000	0.000	58.847	42.870	-0.785	MWD+IFR1+MS
16600.000	90.000	179.678	10101.997	59.096 0.0	00	59.452 -0.000	59.096	0.000	0.000	59.453	42.904	-0.737	MWD+IFR1+MS
16700.000	90.000	179.678	10101.997	59.800 0.0	00	60.063 -0.000	59.800	0.000	0.000	60.063	42.939	-0.693	MWD+IFR1+MS
16800.000	90.000	179.678	10101.997	60.505 0.0	00	60.676 -0.000	60.505	0.000	0.000	60.677	42.975	-0.652	MWD+IFR1+MS
16900.000	90.000	179.678	10101.997	61.213 0.0	00	61.293 -0.000	61.213	0.000	0.000	61.293	43.010	-0.614	MWD+IFR1+MS
17000.000	90.000	179.678	10101.997	61.922 0.0	00	61.913 -0.000	61.922	0.000	0.000	61.914	43.047	-0.578	MWD+IFR1+MS
17100.000	90.000	179.678	10101.997	62.633 0.0	00	62.537 -0.000	62.633	0.000	0.000	62.537	43.083	-0.545	MWD+IFR1+MS
17200.000	90.000	179.678	10101.997	63.346 0.0	00	63.164 -0.000	63.346	0.000	0.000	63.164	43.121	-0.514	MWD+IFR1+MS
17300.000	90.000	179.678	10101.997	64.061 0.0	00	63.793 -0.000	64.061	0.000	0.000	63.793	43.158	-0.485	MWD+IFR1+MS
17400.000	90.000	179.678	10101.997	64.777 0.0	00	64.426 -0.000	64.777	0.000	0.000	64.426	43.197	-0.458	MWD+IFR1+MS
17500.000	90.000	179.678	10101.997	65.495 0.0	00	65.061 -0.000	65.495	0.000	0.000	65.062	43.235	-0.433	MWD+IFR1+MS
17600.000	90.000	179.678	10101.997	66.214 0.0	00	65.700 -0.000	66.214	0.000	0.000	65.700	43.275	-0.409	MWD+IFR1+MS
17700.000	90.000	179.678	10101.997	66.935 0.0	00	66.341 -0.000	66.935	0.000	0.000	66.341	43.314	-0.387	MWD+IFR1+MS
17800.000	90.000	179.678	10101.997	67.657 0.0	00	66.984 -0.000	67.657	0.000	0.000	66.984	43.355	-0.366	MWD+IFR1+MS
17900.000	90.000	179.678	10101.997	68.380 0.0	00	67.630 -0.000	68.380	0.000	0.000	67.630	43.395	-0.347	MWD+IFR1+MS
18000.000	90.000	179.678	10101.997	69.105 0.0	00	68.279 -0.000	69.105	0.000	0.000	68.279	43.437	-0.329	MWD+IFR1+MS
18100.000	90.000	179.678	10101.997	69.831 0.0	00	68.930 -0.000	69.831	0.000	0.000	68.930	43.478	-0.311	MWD+IFR1+MS
18200.000	90.000	179.678	10101.997	70.559 0.0	00	69.583 -0.000	70.559	0.000	0.000	69.583	43.521	-0.295	MWD+IFR1+MS
18300.000	90.000	179.678	10101.997	71.288 0.0	00	70.239 -0.000	71.288	0.000	0.000	70.239	43.563	-0.280	MWD+IFR1+MS
18400.000	90.000	179.678	10101.997	72.017 0.0	00	70.897 -0.000	72.017	0.000	0.000	70.897	43.606	-0.265	MWD+IFR1+MS
18500.000	90.000	179.678	10101.997	72.748 0.0	00	71.557 -0.000	72.748	0.000	0.000	71.557	43.650	-0.252	MWD+IFR1+MS
18600.000	90.000	179.678	10101.997	73.481 0.0	00	72.219 -0.000	73.481	0.000	0.000	72.219	43.694	-0.239	MWD+IFR1+MS
18700.000	90.000	179.678	10101.997	74.214 0.0	00	72.883 -0.000	74.214	0.000	0.000	72.883	43.739	-0.227	MWD+IFR1+MS
18800.000	90.000	179.678	10101.997	74.948 0.0	00	73.549 -0.000	74.948	0.000	0.000	73.549	43.784	-0.215	MWD+IFR1+MS
18900.000	90.000	179.678	10101.997	75.683 0.0	00	74.217 -0.000	75.683	0.000	0.000	74.217	43.830	-0.204	MWD+IFR1+MS
19000.000	90.000	179.678	10101.997	76.419 0.0	00	74.886 -0.000	76.419	0.000	0.000	74.887	43.876	-0.194	MWD+IFR1+MS

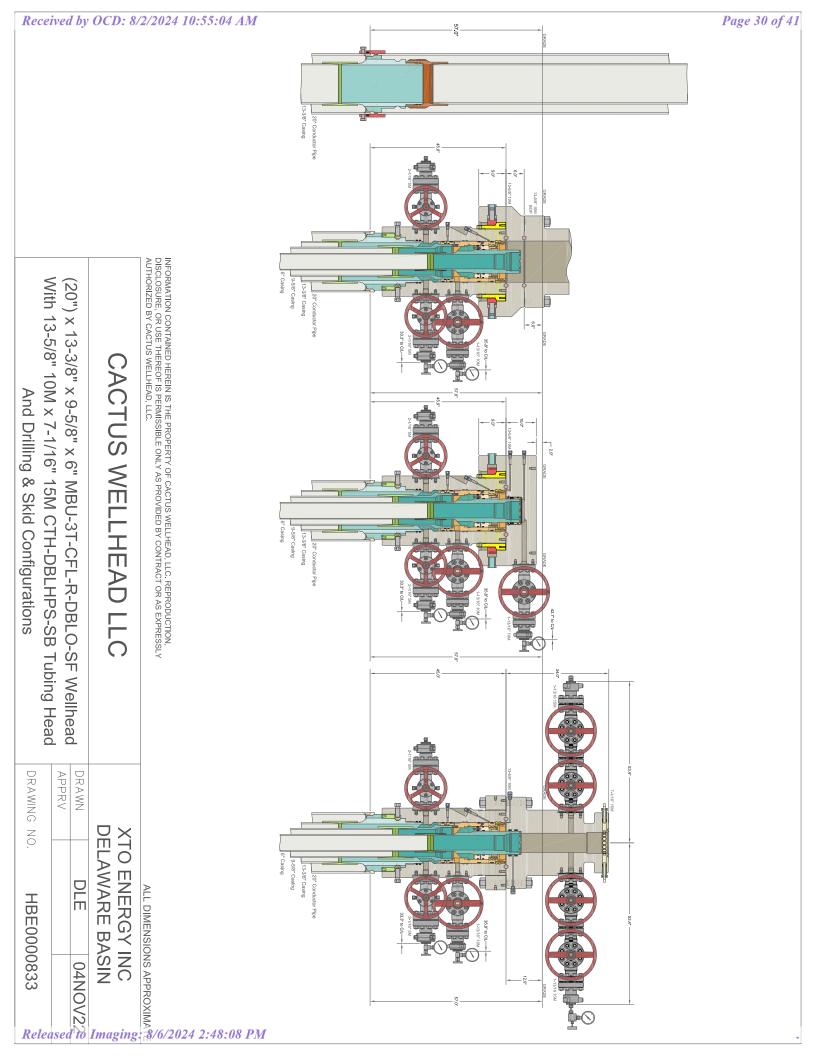
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19100.000	90.000	179.678	10101.997	77.157	0.000	75.558	-0.000	77.157	0.000	0.000	75.558	43.922	-0.184	MWD+IFR1+MS		
19200.000	90.000	179.678	10101.997	77.895	0.000	76.232	-0.000	77.895	0.000	0.000	76.232	43.969	-0.175	MWD+IFR1+MS		
19300.000	90.000	179.678	10101.997	78.634	0.000	76.907	-0.000	78.634	0.000	0.000	76.907	44.017	-0.167	MWD+IFR1+MS		
19400.000	90.000	179.678	10101.997	79.374	0.000	77.583	-0.000	79.374	0.000	0.000	77.584	44.065	-0.158	MWD+IFR1+MS		
19500.000	90.000	179.678	10101.997	80.114	0.000	78.262	-0.000	80.114	0.000	0.000	78.262	44.113	-0.151	MWD+IFR1+MS		
19600.000	90.000	179.678	10101.997	80.856	0.000	78.942	-0.000	80.856	0.000	0.000	78.942	44.162	-0.143	MWD+IFR1+MS		
19700.000	90.000	179.678	10101.997	81.598	0.000	79.624	-0.000	81.598	0.000	0.000	79.624	44.212	-0.136	MWD+IFR1+MS		
19800.000	90.000	179.678	10101.997	82.342	0.000	80.307	-0.000	82.342	0.000	0.000	80.307	44.261	-0.130	MWD+IFR1+MS		
19900.000	90.000	179.678	10101.997	83.085	0.000	80.991	-0.000	83.085	0.000	0.000	80.992	44.312	-0.124	MWD+IFR1+MS		
20000.000	90.000	179.678	10101.997	83.830	0.000	81.677	-0.000	83.830	0.000	0.000	81.678	44.363	-0.118	MWD+IFR1+MS		
20100.000	90.000	179.678	10101.997	84.576	0.000	82.365	-0.000	84.576	0.000	0.000	82.365	44.414	-0.112	MWD+IFR1+MS		
20200.000	90.000	179.678	10101.997	85.322	0.000	83.053	-0.000	85.322	0.000	0.000	83.054	44.466	-0.107	MWD+IFR1+MS		
20300.000	90.000	179.678	10101.997	86.068	0.000	83.744	-0.000	86.068	0.000	0.000	83.744	44.518	-0.102	MWD+IFR1+MS		
20400.000	90.000	179.678	10101.997	86.816	0.000	84.435	-0.000	86.816	0.000	0.000	84.436	44.571	-0.097	MWD+IFR1+MS		
20500.000	90.000	179.678	10101.997	87.564	0.000	85.128	-0.000	87.564	0.000	0.000	85.128	44.624	-0.093	MWD+IFR1+MS		
20600.000	90.000	179.678	10101.997	88.313	0.000	85.822	-0.000	88.313	0.000	0.000	85.822	44.677	-0.088	MWD+IFR1+MS		
20700.000	90.000	179.678	10101.997	89.062	0.000	86.517	-0.000	89.062	0.000	0.000	86.517	44.731	-0.084	MWD+IFR1+MS		
20800.000	90.000	179.678	10101.997	89.812	0.000	87.213	-0.000	89.812	0.000	0.000	87.214	44.786	-0.081	MWD+IFR1+MS		
20900.000	90.000	179.678	10101.997	90.563	0.000	87.911	-0.000	90.563	0.000	0.000	87.911	44.841	-0.077	MWD+IFR1+MS		
21000.000	90.000	179.678	10101.997	91.314	0.000	88.609	-0.000	91.314	0.000	0.000	88.610	44.896	-0.074	MWD+IFR1+MS		
21100.000	90.000	179.678	10101.997	92.066	0.000	89.309	-0.000	92.066	0.000	0.000	89.310	44.952	-0.070	MWD+IFR1+MS		
21200.000	90.000	179.678	10101.997	92.818	0.000	90.010	-0.000	92.818	0.000	0.000	90.010	45.008	- 0.067	MWD+IFR1+MS		
21300.000	90.000	179.678	10101.997	93.571	0.000	90.711	-0.000	93.571	0.000	0.000	90.712	45.065	-0.064	MWD+IFR1+MS		
21400.000	90.000	179.678	10101.997	94.324	0.000	91.414	-0.000	94.324	0.000	0.000	91.415	45.122	-0.062	MWD+IFR1+MS		
21500.000	90.000	179.678	10101.997	95.078	0.000	92.118	-0.000	95.078	0.000	0.000	92.119	45.180	-0.059	MWD+IFR1+MS		
21600.000	90.000	179.678	10101.997	95.832	0.000	92.823	-0.000	95.832	0.000	0.000	92.824	45.238	-0.057	MWD+IFR1+MS		
21700.000	90.000	179.678	10101.997	96.587	0.000	93.529	-0.000	96.587	0.000	0.000	93.530	45.297	- 0.054	MWD+IFR1+MS		
21800.000	90.000	179.678	10101.997	97.342	0.000	94.235	-0.000	97.342	0.000	0.000	94.236	45.356	-0.052	MWD+IFR1+MS		
21900.000	90.000	179.678	10101.997	98.098	0.000	94.943	-0.000	98.098	0.000	0.000	94.944	45.415	-0.050	MWD+IFR1+MS		
22000.000	90.000	179.678	10101.997	98.854	0.000	95.652	-0.000	98.854	0.000	0.000	95.652	45.475	-0.048	MWD+IFR1+MS		
22100.000	90.000	179.678	10101.997	99.611	0.000	96.361	-0.000	99.611	0.000	0.000	96.362	45.535	-0.046	MWD+IFR1+MS		
22200.000	90.000	179.678	10101.997	100.368	0.000	97.071	-0.000	100.368	0.000	0.000	97.072	45.596	-0.045	MWD+IFR1+MS		
22300.000	90.000	179.678	10101.997	101.125	0.000	97.782	-0.000	101.125	0.000	0.000	97.783	45.657	-0.043	MWD+IFR1+MS		

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22400.000	90.000	179.678	10101.997	101.883	0.000	98.494	-0.000	101.883	0.000	0.000	98.495	45.718	-0.042	MWD+IFR1+MS
22500.000	90.000	179.678	10101.997	102.642	0.000	99.207	-0.000	102.642	0.000	0.000	99.208	45.780	-0.040	MWD+IFR1+MS
22600.000	90.000	179.678	10101.997	103.400	0.000	99.920	-0.000	103.400	0.000	0.000	99.921	45.843	-0.039	MWD+IFR1+MS
22700.000	90.000	179.678	10101.997	104.159	0.000	100.635	-0.000	104.159	0.000	0.000	100.636	45.906	-0.038	MWD+IFR1+MS
22800.000	90.000	179.678	10101.997	104.919	0.000	101.350	-0.000	104.919	0.000	0.000	101.351	45.969	-0.036	MWD+IFR1+MS
22900.000	90.000	179.678	10101.997	105.679	0.000	102.065	-0.000	105.679	0.000	0.000	102.066	46.033	-0.035	MWD+IFR1+MS
23000.000	90.000	179.678	10101.997	106.439	0.000	102.782	-0.000	106.439	0.000	0.000	102.783	46.097	-0.034	MWD+IFR1+MS
23100.000	90.000	179.678	10101.997	107.200	0.000	103.499	-0.000	107.200	0.000	0.000	103.500	46.161	-0.033	MWD+IFR1+MS
23200.000	90.000	179.678	10101.997	107.960	0.000	104.217	-0.000	107.960	0.000	0.000	104.218	46.226	-0.032	MWD+IFR1+MS
23300.000	90.000	179.678	10101.997	108.722	0.000	104.935	-0.000	108.722	0.000	0.000	104.936	46.291	-0.032	MWD+IFR1+MS
23400.000	90.000	179.678	10101.997	109.483	0.000	105.654	-0.000	109.483	0.000	0.000	105.655	46.357	-0.031	MWD+IFR1+MS
23500.000	90.000	179.678	10101.997	110.245	0.000	106.374	-0.000	110.245	0.000	0.000	106.375	46.423	-0.030	MWD+IFR1+MS
23600.000	90.000	179.678	10101.997	111.007	0.000	107.095	-0.000	111.007	0.000	0.000	107.096	46.490	-0.030	MWD+IFR1+MS
23700.000	90.000	179.678	10101.997	111.770	0.000	107.816	-0.000	111.770	0.000	0.000	107.817	46.557	-0.029	MWD+IFR1+MS
23800.000	90.000	179.678	10101.997	112.533	0.000	108.537	-0.000	112.533	0.000	0.000	108.539	46.624	-0.028	MWD+IFR1+MS
23900.000	90.000	179.678	10101.997	113.296	0.000	109.260	-0.000	113.296	0.000	0.000	109.261	46.692	-0.028	MWD+IFR1+MS
24000.000	90.000	179.678	10101.997	114.059	0.000	109.982	-0.000	114.059	0.000	0.000	109.984	46.760	-0.028	MWD+IFR1+MS
24100.000	90.000	179.678	10101.997	114.823	0.000	110.706	-0.000	114.823	0.000	0.000	110.707	46.829	-0.027	MWD+IFR1+MS
24200.000	90.000	179.678	10101.997	115.587	0.000	111.430	-0.000	115.587	0.000	0.000	111.431	46.898	-0.027	MWD+IFR1+MS
24300.000	90.000	179.678	10101.997	116.351	0.000	112.154	-0.000	116.351	0.000	0.000	112.156	46.967	-0.027	MWD+IFR1+MS
24400.000	90.000	179.678	10101.997	117.116	0.000	112.880	-0.000	117.116	0.000	0.000	112.881	47.037	-0.026	MWD+IFR1+MS
24500.000	90.000	179.678	10101.997	117.881	0.000	113.605	-0.000	117.881	0.000	0.000	113.606	47.107	-0.026	MWD+IFR1+MS
24600.000	90.000	179.678	10101.997	118.646	0.000	114.331	-0.000	118.646	0.000	0.000	114.333	47.178	-0.026	MWD+IFR1+MS
24700.000	90.000	179.678	10101.997	119.411	0.000	115.058	-0.000	119.411	0.000	0.000	115.059	47.248	-0.026	MWD+IFR1+MS
24800.000	90.000	179.678	10101.997	120.177	0.000	115.785	-0.000	120.177	0.000	0.000	115.786	47.320	-0.026	MWD+IFR1+MS
24900.000	90.000	179.678	10101.997	120.943	0.000	116.513	-0.000	120.943	0.000	0.000	116.514	47.391	-0.026	MWD+IFR1+MS
25000.000	90.000	179.678	10101.997	121.709	0.000	117.241	-0.000	121.709	0.000	0.000	117.242	47.464	-0.026	MWD+IFR1+MS
25100.000	90.000	179.678	10101.997	122.475	0.000	117.970	-0.000	122.475	0.000	0.000	117.971	47.536	-0.026	MWD+IFR1+MS
25200.000	90.000	179.678	10101.997	123.241	0.000	118.699	-0.000	123.241	0.000	0.000	118.700	47.609	-0.026	MWD+IFR1+MS
25300.000	90.000	179.678	10101.997	124.008	0.000	119.428	-0.000	124.008	0.000	0.000	119.430	47.682	-0.026	MWD+IFR1+MS
25400.000	90.000	179.678	10101.997	124.775	0.000	120.158	-0.000	124.775	0.000	0.000	120.160	47.756	-0.026	MWD+IFR1+MS
25500.000	90.000	179.678	10101.997	125.542	0.000	120.889	-0.000	125.542	0.000	0.000	120.890	47.830	-0.026	MWD+IFR1+MS
25600.000	90.000	179.678	10101.997	126.310	0.000	121.619	-0.000	126.310	0.000	0.000	121.621	47.904	-0.026	MWD+IFR1+MS

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25700.000	90.000	179.678	10101.997	127.077	0.000	122.351	-0.000	127.077	0.000	0.00	0 122.352	47.979	-0.026	MWD+IFR1+MS
25800.000	90.000	179.678	10101.997	127.845	0.000	123.082	-0.000	127.845	0.000	0.00	0 123.084	48.054	-0.026	MWD+IFR1+MS
25900.000	90.000	179.678	10101.997	128.613	0.000	123.815	-0.000	128.613	0.000	0.00	0 123.816	48.129	-0.026	MWD+IFR1+MS
26000.000	90.000	179.678	10101.997	129.382	0.000	124.547	-0.000	129.382	0.000	0.00	0 124.548	48.205	-0.027	MWD+IFR1+MS
26100.000	90.000	179.678	10101.997	130.150	0.000	125.280	-0.000	130.150	0.000	0.00	0 125.281	48.281	-0.027	MWD+IFR1+MS
26200.000	90.000	179.678	10101.997	130.919	0.000	126.013	-0.000	130.919	0.000	0.00	0 126.015	48.358	-0.027	MWD+IFR1+MS
26300.000	90.000	179.678	10101.997	131.688	0.000	126.747	-0.000	131.688	0.000	0.00	0 126.748	48.435	-0.027	MWD+IFR1+MS
26400.000	90.000	179.678	10101.997	132.457	0.000	127.481	-0.000	132.457	0.000	0.00	0 127.482	48.512	-0.028	MWD+IFR1+MS
26500.000	90.000	179.678	10101.997	133.226	0.000	128.215	-0.000	133.226	0.000	0.00	0 128.217	48.590	-0.028	MWD+IFR1+MS
26600.000	90.000	179.678	10101.997	133.995	0.000	128.950	-0.000	133.995	0.000	0.00	0 128.952	48.668	-0.028	MWD+IFR1+MS
26700.000	90.000	179.678	10101.997	134.765	0.000	129.685	-0.000	134.765	0.000	0.00	0 129.687	48.746	-0.029	MWD+IFR1+MS
26800.000	90.000	179.678	10101.997	135.535	0.000	130.421	-0.000	135.535	0.000	0.00	0 130.422	48.825	-0.029	MWD+IFR1+MS
26900.000	90.000	179.678	10101.997	136.304	0.000	131.157	-0.000	136.304	0.000	0.00	0 131.158	48.904	-0.029	MWD+IFR1+MS
27000.000	90.000	179.678	10101.997	137.075	0.000	131.893	-0.000	137.075	0.000	0.00	0 131.894	48.983	-0.030	MWD+IFR1+MS
27100.000	90.000	179.678	10101.997	137.845	0.000	132.629	-0.000	137.845	0.000	0.00	0 132.631	49.063	-0.030	MWD+IFR1+MS
27200.000	90.000	179.678	10101.997	138.615	0.000	133.366	-0.000	138.615	0.000	0.00	0 133.368	49.143	-0.030	MWD+IFR1+MS
27300.000	90.000	179.678	10101.997	139.386	0.000	134.103	-0.000	139.386	0.000	0.00	0 134.105	49.223	-0.031	MWD+IFR1+MS
27400.000	90.000	179.678	10101.997	140.156	0.000	134.841	-0.000	140.156	0.000	0.00	0 134.842	49.304	-0.031	MWD+IFR1+MS
27500.000	90.000	179.678	10101.997	140.927	0.000	135.578	-0.000	140.927	0.000	0.00	0 135.580	49.385	-0.032	MWD+IFR1+MS
27600.000	90.000	179.678	10101.997	141.698	0.000	136.317	-0.000	141.698	0.000	0.00	0 136.318	49.467	-0.032	MWD+IFR1+MS
27700.000	90.000	179.678	10101.997	142.470	0.000	137.055	-0.000	142.470	0.000	0.00	0 137.056	49.548	-0.032	MWD+IFR1+MS
27800.000	90.000	179.678	10101.997	143.241	0.000	137.794	-0.000	143.241	0.000	0.00	0 137.795	49.631	-0.033	MWD+IFR1+MS
27900.000	90.000	179.678	10101.997	144.012	0.000	138.533	-0.000	144.012	0.000	0.00	0 138.534	49.713	-0.033	MWD+IFR1+MS
28000.000	90.000	179.678	10101.997	144.784	0.000	139.272	-0.000	144.784	0.000	0.00	0 139.273	49.796	-0.034	MWD+IFR1+MS
28100.000	90.000	179.678	10101.997	145.556	0.000	140.011	-0.000	145.556	0.000	0.00	0 140.013	49.879	-0.034	MWD+IFR1+MS
28184.712	90.000	179.678	10101.997	146.209	0.000	140.638	-0.000	146.209	0.000	0.00	0 140.639	49.950	-0.035	MWD+IFR1+MS
28200.000	90.000	179.678	10101.997	146.327	0.000	140.750	-0.000	146.327	0.000	0.00	0 140.752	49.962	-0.035	MWD+IFR1+MS
28234.751	90.000	179.678	10101.997	146.595	0.000	141.007	-0.000	146.595	0.000	0.00	0 141.008	49.991	-0.035	MWD+IFR1+MS

Plan Targets	Poker Lake Unit 20 DTD South 311H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 18	10296.85	440390.50	633411.90	6809.00 RECTANGLE

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SHL 17	10983.65	439616.86	633686.77	6538.65 RECTANGLE	
LTP 18	28184.75	422061.20	633514.90	6809.00 RECTANGLE	
BHL 18	28234.76	422011.20	633515.20	6809.00 RECTANGLE	



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 3170recognizes 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.

Descenter Test Law	Pressure Test—High Pressure		
Pressure Test—Low Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer or Ring Gasket	
250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.	
250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP	
250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP	
250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP	
250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower		
elly, kelly valves, drill pipe afety valves, IBOPs 250 to 350 (1.72 to 2.41) MASP for the well program			
		uired for pressure-containing ar	
	psig (MPa) 250 to 350 (1.72 to 2.41) shall be a minimum of five minutes. euring the evaluation period. The pressure tested on the largest and sm from one wellhead to another within when the integrity of a pressure set.	Pressure 1est – Low Pressure* psig (MPa) Change Out of Component, Elastomer, or Ring Gasket 250 to 350 (1.72 to 2.41) RWP of annular preventer 250 to 350 (1.72 to 2.41) RWP of ram preventer or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of side outlet valve or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of ram preventers or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of valve(s), line(s), or N whichever is lower 250 to 350 (1.72 to 2.41) RWP of valve(s), line(s), or N whichever is lower 250 to 350 (1.72 to 2.41) MASP for the well program	

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.

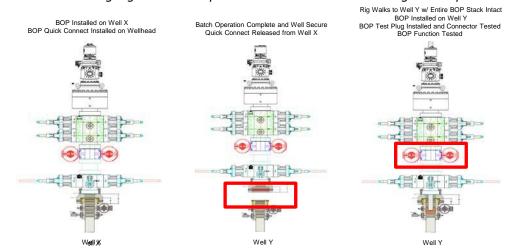
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 Oand often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

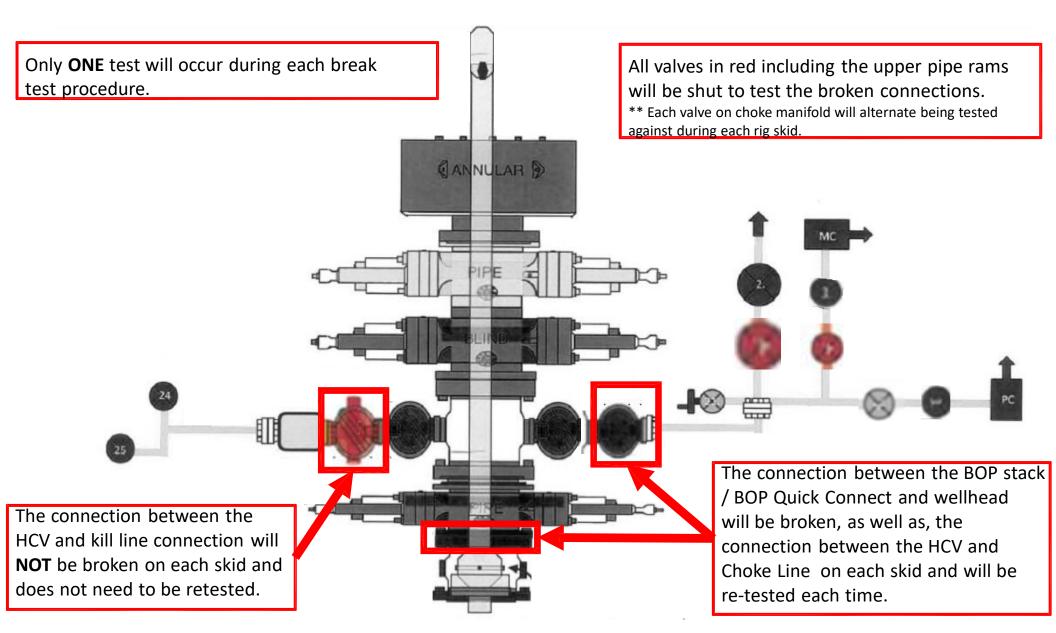
Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

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.



10,000 PSI Annular BOP Variance Request

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

1. Component and Preventer Compatibility Tables

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

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

2. Well Control Procedures

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

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Production Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA Through Stack

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

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

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

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District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	369838
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

CONDITIONS					
Created By	Condition	Condition Date			
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	8/6/2024			

CONDITIONS

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Action 369838