Sundry Print Repor

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

Lease Number: NMNM02860

DTD

Well Name: POKER LAKE UNIT 20 Well Location: T24S / R30E / SEC 20 /

NENW / 32.20774 / -103.90634

County or Parish/State: EDDY /

Well Number: 217H Type of Well: CONVENTIONAL GAS

WELL

Unit or CA Name: POKER LAKE UNIT

NMNM71016X

Allottee or Tribe Name:

Unit or CA Number:

US Well Number: Operator: XTO PERMIAN OPERATING

LLC

Notice of Intent

Sundry ID: 2778998

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 03/11/2024 Time Sundry Submitted: 06:51

Date proposed operation will begin: 04/01/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make changes to the approved APD as follows: SHL, FTP, LTP, BHL and drilling plan. Casing sizes are not changing but casing and cement program are being updated. FROM: TO: SHL: 965' FNL & 1810' FWL OF SECTION 20-T24S-R30E 815' FNL & 2300' FWL OF SECTION 20-T24S-R30E FTP: 100' FSL & 550' FWL OF SECTION 17-T24S-R30E 100' FNL & 1480' FWL OF SECTION 20-T24S-R30E LTP: 330' FNL & 550' FWL OF SECTION 32-T23S-R30E 2343' FNL & 1480' FWL OF SECTION 5-T25S-R30E BHL: 200' FNL & 550' FWL OF SECTION 32-T23S-R30E 2443' FNL & 1480' FWL OF SECTION 5-T25S-R30E The proposed total depth is changing from 32895' MD; 11602' TVD (Wolfcamp) to 29653' MD; 11636' TVD (Wolfcamp). Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control

NOI Attachments

Procedure Description

Wild_Well_Control_Plan_WWCP_20240311065040.pdf

BOP_Variance_new_Language_BOP_BTV_20240311065004.pdf

3_String_Bighole_Four_Miler_HBE0000833_20240311064933.pdf

Well_Plan_Report__Poker_Lake_Unit_20_DTD_South_217H__2_19_2024__20240311064923.pdf

PLU_20_DTD_217H_Pad_B_Drilling_Plan__2_19_2024__20240311064910.pdf

POKER_LAKE_UNIT_20_DTD_217H_C_102_signed_3_10_2024_20240311064858.pdf

eived by OCD: 6/27/2024 12:26:44 PM Well Name: POKER LAKE UNIT 20

Well Location: T24S / R30E / SEC 20 /

NENW / 32.20774 / -103.90634

County or Parish/State: Page 2 of

NM

Well Number: 217H

Type of Well: CONVENTIONAL GAS

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

Conditions of Approval

Additional

Sec 20 24S 30E NMP Sundry 2778998 Poker Lake Unit 20 DTD 217H COAs 20240404151105.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: RANELL (RUSTY) KLEIN Signed on: MAR 11, 2024 06:50 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND State: TX

Phone: (432) 620-6700

Email address: RANELL.KLEIN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CODY LAYTON

BLM POC Phone: 5752345959

Disposition: Approved

Signature: Cody R. Layton

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Email Address: clayton@blm.gov

Disposition Date: 06/26/2024

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

GEMENT 5.	. Lease Serial
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BORDING OF EAR OF MARKING EMERY							
SUNDRY NOTICES AND REPORTS ON V Do not use this form for proposals to drill or to abandoned well. Use Form 3160-3 (APD) for sur	o re-enter an	6. If Indian, Allottee or	Tribe Name				
SUBMIT IN TRIPLICATE - Other instructions on page	ge 2	7. If Unit of CA/Agreen	nent, Name and/or No.				
1. Type of Well	<u>'</u>	-					
Oil Well Gas Well Other		8. Well Name and No.					
2. Name of Operator		9. API Well No.					
3a. Address 3b. Phone No.	(include area code)	10. Field and Pool or Ex	xploratory Area				
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, S	state				
12. CHECK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE OF NOT	TICE, REPORT OR OTHE	ER DATA				
TYPE OF SUBMISSION	TYPE OF AC	CTION					
	raulic Fracturing Rec	duction (Start/Resume) lamation	Water Shut-Off Well Integrity				
Subsequent Report	_	omplete nporarily Abandon	Other				
	_	er Disposal					
completed. Final Abandonment Notices must be filed only after all requirement is ready for final inspection.)	is, including reclamation, have	ve been completed and the	e operator has detennined that the site				
4. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)	Title						
Signature	Date						
THE SPACE FOR FED	ERAL OR STATE OF	FICE USE					
Approved by							
	Title	Da	ate				
Conditions of approval, if any, are attached. Approval of this notice does not warrar certify that the applicant holds legal or equitable title to those rights in the subject leads to 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 a many false, fictitious or fraudulent statements or representations as to any matter with		llfully to make to any dep	artment or agency of the United 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, 3162.3-4.

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NENW / 965 FNL / 1810 FWL / TWSP: 24S / RANGE: 30E / SECTION: 20 / LAT: 32.20774 / LONG: -103.90634 (TVD: 0 feet, MD: 0 feet) PPP: SWSW / 330 FSL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 8 / LAT: 32.2254 / LONG: -103.91045 (TVD: 11602 feet, MD: 17400 feet) PPP: SWSW / 100 FSL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 17 / LAT: 32.210645 / LONG: -103.910432 (TVD: 11602 feet, MD: 12100 feet) PPP: SWSW / 330 FSL / 550 FWL / TWSP: 24S / RANGE: 30E / SECTION: 5 / LAT: 32.23989 / LONG: -103.91045 (TVD: 11602 feet, MD: 22700 feet) BHL: NWNW / 200 FNL / 550 FWL / TWSP: 23S / RANGE: 30E / SECTION: 32 / LAT: 32.26801 / LONG: -103.910431 (TVD: 11602 feet, MD: 32895 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating LLC
WELL NAME & NO.: Poker Lake Unit 20 217H
LOCATION: Sec 20-24S-30E-NMP
COUNTY: Eddy County, New Mexico

Changes approved through engineering via **Sundry 2778998** on 04/04/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H_2S	• No	C Yes		
Potash / WIPP	None	Secretary	C R-111-P	□ WIPP
Cave / Karst	• Low	Medium	C High	Critical
Wellhead	Conventional	Multibowl	O Both	Diverter
Cementing	☐ Primary Squeeze		☐ EchoMeter	□ DV Tool
Special Req	Break Testing	☐ Water Disposal	□ СОМ	Unit
Variance	▼ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
		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 **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead

cement)

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

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

- 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)

Unit Wells

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

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

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, BLM_NM_CFO_DrillingNotifications@blm.gov; (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.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. 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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-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.

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 Se 10M psi Requiremen			
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	10M
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M
	4.500"			Lower 3.5"-5.5" VBR	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 Onshore O&G Order No. 2 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

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full-opening safety valve and close
- 3. Space out 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% 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

<u>Subject:</u> 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.

2	API STANDARD	53						
Tal	ole C.4—Initial Pressure Te	esting, Surface BOP Stacks						
	Pressure Test—Low	Pressure Test—High Pressure <mark>∞</mark>						
Component to be Pressure Tested	Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket					
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.					
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP					
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP					
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP					
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,					
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program						
	during the evaluation period. The p	pressure shall not decrease below the allest OD drill pipe to be used in well						
	from one wellhead to another withi when the integrity of a pressure se	n the 21 days, pressure testing is req al is broken.	uired for pressure-containing an					
	land operations, the ram BOPs sha	ted with the ram locks engaged and all be pressure tested with the ram lo						

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

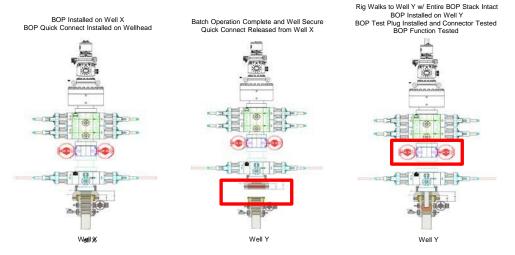
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- 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



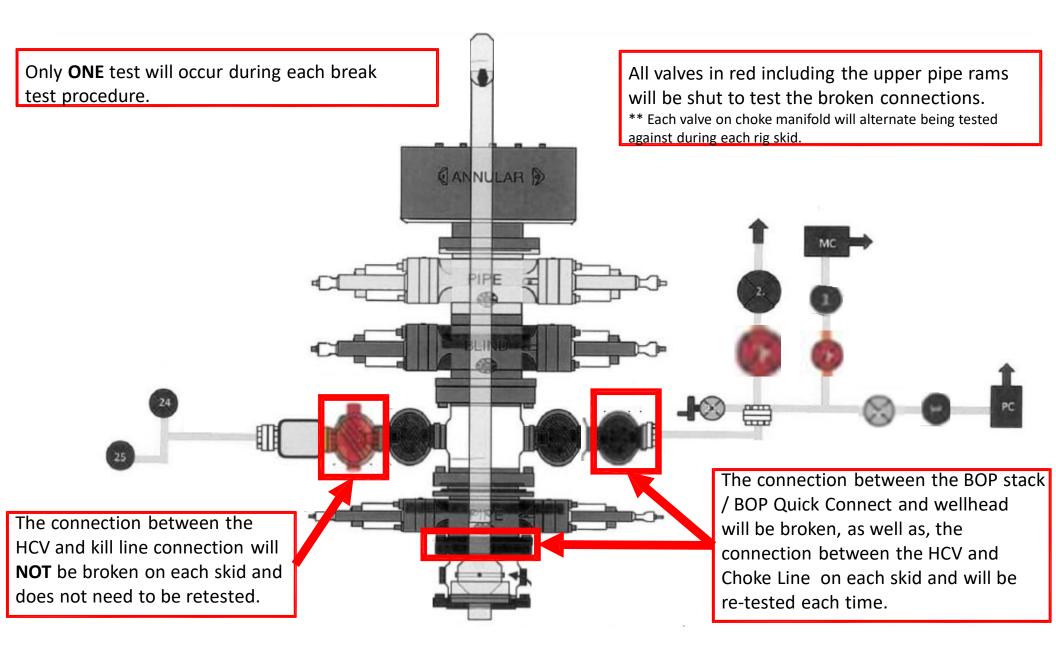
Summary

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.



Well Plan Report - Poker Lake Unit 20 DTD South 217H

 Measured Depth:
 29653.49 ft

 TVD RKB:
 11636.00 ft

Location

New Mexico East -Cartographic Reference System: **NAD 27** Northing: 439668 10 ft Easting: 632706.20 ft **RKB**: 3277.00 ft **Ground Level:** 3245.00 ft North Reference: Grid **Convergence Angle:** 0.23 Deg

Plan Sections Poker Lake Unit 20 DTD South 217H

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
1715.83	12.32	310.49	1711.10	42.82	-50.14	2.00	0.00	2.00
6196.77	12.32	310.49	6088.90	663.48	-777.06	0.00	0.00	0.00
6812.60	0.00	0.00	6700.00	706.30	-827.20	-2.00	0.00	2.00
11032.40	0.00	0.00	10919.80	706.30	-827.20	0.00	0.00	0.00
12157.40	90.00	179.68	11636.00	-9.89	-823.18	8.00	0.00	8.00
29551.89	90.00	179.68	11636.00	-17404.10	- 725.42	0.00	0.00	0.00 LTP 6
29653.49	90.00	179.68	11636.00	-17505.70	- 724.85	0.00	0.00	0.00 BHL 6

Position Uncertainty Poker Lake Unit 20 DTD South 217H

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

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	2.346	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	2.405	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	310.492	1199.980	4.352	0.000	5.097	0.000	2.688	0.000	0.000	5.113	4.335	121.739	MWD+IFR1+MS
1300.000	4.000	310.492	1299.838	5.235	0.000	5.426	0.000	2.747	0.000	0.000	5.587	5.070	95.907	MWD+IFR1+MS
1400.000	6.000	310.492	1399.452	6.004	0.000	5.759	0.000	2.813	0.000	0.000	6.247	5.511	75.102	MWD+IFR1+MS
1500.000	8.000	310.492	1498.702	6.697	0.000	6.095	0.000	2.885	0.000	0.000	6.929	5.860	67.423	MWD+IFR1+MS
1600.000	10.000	310.492	1597.465	7.335	0.000	6.434	0.000	2.968	0.000	0.000	7.579	6.193	64.048	MWD+IFR1+MS
1700.000	12.000	310.492	1695.623	7.929	0.000	6.777	0.000	3.062	0.000	0.000	8.195	6.523	62.243	MWD+IFR1+MS
1715.827	12.317	310.492	1711.095	7.969	0.000	6.828	0.000	3.068	0.000	0.000	8.242	6.575	62.235	MWD+IFR1+MS
1800.000	12.317	310.492	1793.331	8.206	0.000	7.103	0.000	3.132	0.000	0.000	8.477	6.851	62.553	MWD+IFR1+MS
1900.000	12.317	310.492	1891.029	8.505	0.000	7.450	0.000	3.214	0.000	0.000	8.780	7.189	63.319	MWD+IFR1+MS
2000.000	12.317	310.492	1988.728	8.814	0.000	7.805	0.000	3.300	0.000	0.000	9.095	7.532	64.147	MWD+IFR1+MS
2100.000	12.317	310.492	2086.426	9.129	0.000	8.161	0.000	3.389	0.000	0.000	9.416	7.877	64.946	MWD+IFR1+MS
2200.000	12.317	310.492	2184.124	9.450	0.000	8.520	0.000	3.480	0.000	0.000	9.741	8.225	65.718	MWD+IFR1+MS
2300.000	12.317	310.492	2281.823	9.775	0.000	8.882	0.000	3.574	0.000	0.000	10.071	8.575	66.461	MWD+IFR1+MS
2400.000	12.317	310.492	2379.521	10.105	0.000	9.244	0.000	3.671	0.000	0.000	10.405	8.927	67.178	MWD+IFR1+MS
2500.000	12.317	310.492	2477.220	10.439	0.000	9.609	0.000	3.771	0.000	0.000	10.743	9.281	67.867	MWD+IFR1+MS
2600.000	12.317	310.492	2574.918	10.777	0.000	9.975	0.000	3.872	0.000	0.000	11.084	9.636	68.531	MWD+IFR1+MS
2700.000	12.317	310.492	2672.616	11.118	0.000	10.342	0.000	3.976	0.000	0.000	11.429	9.993	69.170	MWD+IFR1+MS
2800.000	12.317	310.492	2770.315	11.463	0.000	10.710	0.000	4.081	0.000	0.000	11.776	10.351	69.784	MWD+IFR1+MS
2900.000	12.317	310.492	2868.013	11.810	0.000	11.079	0.000	4.189	0.000	0.000	12.125	10.711	70.375	MWD+IFR1+MS

3000.000	12.317	310.492	2965.712	12.159	0.000	11.449	0.000	4.298	0.000	0.000	12.477	11.071	70.944	MWD+IFR1+MS
3100.000	12.317	310.492	3063.410	12.511	0.000	11.820	0.000	4.410	0.000	0.000	12.831	11.432	71.490	MWD+IFR1+MS
3200.000	12.317	310.492	3161.108	12.865	0.000	12.191	0.000	4.523	0.000	0.000	13.187	11.795	72.016	MWD+IFR1+MS
3300.000	12.317	310.492	3258.807	13.221	0.000	12.563	0.000	4.638	0.000	0.000	13.545	12.158	72.521	MWD+IFR1+MS
3400.000	12.317	310.492	3356.505	13.579	0.000	12.936	0.000	4.754	0.000	0.000	13.904	12.522	73.007	MWD+IFR1+MS
3500.000	12.317	310.492	3454.204	13.939	0.000	13.310	0.000	4.872	0.000	0.000	14.264	12.886	73.475	MWD+IFR1+MS
3600.000	12.317	310.492	3551.902	14.300	0.000	13.684	0.000	4.992	0.000	0.000	14.626	13.252	73.925	MWD+IFR1+MS
3700.000	12.317	310.492	3649.600	14.662	0.000	14.058	0.000	5.113	0.000	0.000	14.990	13.617	74.358	MWD+IFR1+MS
3800.000	12.317	310.492	3747.299	15.026	0.000	14.433	0.000	5.236	0.000	0.000	15.354	13.984	74.774	MWD+IFR1+MS
3900.000	12.317	310.492	3844.997	15.391	0.000	14.808	0.000	5.360	0.000	0.000	15.720	14.351	75.176	MWD+IFR1+MS
4000.000	12.317	310.492	3942.696	15.757	0.000	15.184	0.000	5.486	0.000	0.000	16.086	14.718	75.562	MWD+IFR1+MS
4100.000	12.317	310.492	4040.394	16.125	0.000	15.560	0.000	5.614	0.000	0.000	16.454	15.086	75.934	MWD+IFR1+MS
4200.000	12.317	310.492	4138.092	16.493	0.000	15.936	0.000	5.743	0.000	0.000	16.822	15.455	76.292	MWD+IFR1+MS
4300.000	12.317	310.492	4235.791	16.862	0.000	16.313	0.000	5.873	0.000	0.000	17.191	15.824	76.637	MWD+IFR1+MS
4400.000	12.317	310.492	4333.489	17.232	0.000	16.689	0.000	6.006	0.000	0.000	17.561	16.193	76.970	MWD+IFR1+MS
4500.000	12.317	310.492	4431.188	17.603	0.000	17.067	0.000	6.140	0.000	0.000	17.932	16.563	77.290	MWD+IFR1+MS
4600.000	12.317	310.492	4528.886	17.975	0.000	17.444	0.000	6.275	0.000	0.000	18.303	16.933	77.600	MWD+IFR1+MS
4700.000	12.317	310.492	4626.584	18.347	0.000	17.822	0.000	6.412	0.000	0.000	18.675	17.303	77.898	MWD+IFR1+MS
4800.000	12.317	310.492	4724.283	18.721	0.000	18.200	0.000	6.551	0.000	0.000	19.048	17.674	78.185	MWD+IFR1+MS
4900.000	12.317	310.492	4821.981	19.094	0.000	18.578	0.000	6.691	0.000	0.000	19.421	18.045	78.463	MWD+IFR1+MS
5000.000	12.317	310.492	4919.680	19.469	0.000	18.956	0.000	6.833	0.000	0.000	19.794	18.416	78.731	MWD+IFR1+MS
5100.000	12.317	310.492	5017.378	19.844	0.000	19.334	0.000	6.976	0.000	0.000	20.168	18.787	78.990	MWD+IFR1+MS
5200.000	12.317	310.492	5115.076	20.219	0.000	19.713	0.000	7.122	0.000	0.000	20.543	19.159	79.239	MWD+IFR1+MS
5300.000	12.317	310.492	5212.775	20.595	0.000	20.092	0.000	7.269	0.000	0.000	20.918	19.531	79.481	MWD+IFR1+MS
5400.000	12.317	310.492	5310.473	20.971	0.000	20.470	0.000	7.418	0.000	0.000	21.293	19.904	79.714	MWD+IFR1+MS
5500.000	12.317	310.492	5408.172	21.348	0.000	20.850	0.000	7.568	0.000	0.000	21.669	20.276	79.939	MWD+IFR1+MS
5600.000	12.317	310.492	5505.870	21.726	0.000	21.229	0.000	7.720	0.000	0.000	22.045	20.649	80.156	MWD+IFR1+MS
5700.000	12.317	310.492	5603.568	22.103	0.000	21.608	0.000	7.875	0.000	0.000	22.421	21.022	80.366	MWD+IFR1+MS
5800.000	12.317	310.492	5701.267	22.482	0.000	21.987	0.000	8.030	0.000	0.000	22.798	21.395	80.569	MWD+IFR1+MS
5900.000	12.317	310.492	5798.965	22.860	0.000	22.367	0.000	8.188	0.000	0.000	23.175	21.768	80.766	MWD+IFR1+MS
6000.000	12.317	310.492	5896.664	23.239	0.000	22.747	0.000	8.348	0.000	0.000	23.553	22.142	80.956	MWD+IFR1+MS
6100.000	12.317	310.492	5994.362	23.618	0.000	23.126	0.000	8.509	0.000	0.000	23.930	22.516	81.139	MWD+IFR1+MS
6196.770	12.317	310.492	6088.905	23.985	0.000	23.494	0.000	8.668	0.000	0.000	24.295	22.877	81.307	MWD+IFR1+MS

6200.000	12.252	310.492	6092.061	23.998	0.000	23.506	0.000	8.673	0.000	0.000	24.307	22.889	81.312	MWD+IFR1+MS
6300.000	10.252	310.492	6190.134	24.416	0.000	23.876	0.000	8.839	0.000	0.000	24.692	23.266	80.931	MWD+IFR1+MS
6400.000	8.252	310.492	6288.828	24.881	0.000	24.247	0.000	9.008	0.000	0.000	25.139	23.653	79.269	MWD+IFR1+MS
6500.000	6.252	310.492	6388.023	25.307	0.000	24.610	0.000	9.169	0.000	0.000	25.580	24.030	77.750	MWD+IFR1+MS
6600.000	4.252	310.492	6487.598	25.694	0.000	24.966	0.000	9.325	0.000	0.000	26.014	24.399	76.373	MWD+IFR1+MS
6700.000	2.252	310.492	6587.432	26.044	0.000	25.315	0.000	9.474	0.000	0.000	26.441	24.759	75.134	MWD+IFR1+MS
6800.000	0.252	310.492	6687.403	26.354	0.000	25.656	0.000	9.620	0.000	0.000	26.859	25.110	74.026	MWD+IFR1+MS
6812.597	0.000	0.000	6700.000	26.771	0.000	25.288	0.000	9.639	0.000	0.000	26.899	25.152	74.037	MWD+IFR1+MS
6900.000	0.000	0.000	6787.403	27.051	0.000	25.577	0.000	9.765	0.000	0.000	27.175	25.445	74.226	MWD+IFR1+MS
7000.000	0.000	0.000	6887.403	27.375	0.000	25.912	0.000	9.912	0.000	0.000	27.493	25.787	74.543	MWD+IFR1+MS
7100.000	0.000	0.000	6987.403	27.702	0.000	26.248	0.000	10.063	0.000	0.000	27.813	26.131	74.886	MWD+IFR1+MS
7200.000	0.000	0.000	7087.403	28.028	0.000	26.586	0.000	10.216	0.000	0.000	28.133	26.475	75.230	MWD+IFR1+MS
7300.000	0.000	0.000	7187.403	28.356	0.000	26.923	0.000	10.371	0.000	0.000	28.455	26.819	75.575	MWD+IFR1+MS
7400.000	0.000	0.000	7287.403	28.685	0.000	27.262	0.000	10.530	0.000	0.000	28.778	27.163	75.921	MWD+IFR1+MS
7500.000	0.000	0.000	7387.403	29.014	0.000	27.600	0.000	10.692	0.000	0.000	29.101	27.508	76.269	MWD+IFR1+MS
7600.000	0.000	0.000	7487.403	29.343	0.000	27.940	0.000	10.856	0.000	0.000	29.426	27.853	76.617	MWD+IFR1+MS
7700.000	0.000	0.000	7587.403	29.674	0.000	28.279	0.000	11.024	0.000	0.000	29.751	28.198	76.966	MWD+IFR1+MS
7800.000	0.000	0.000	7687.403	30.005	0.000	28.620	0.000	11.195	0.000	0.000	30.077	28.544	77.315	MWD+IFR1+MS
7900.000	0.000	0.000	7787.403	30.337	0.000	28.960	0.000	11.368	0.000	0.000	30.404	28.889	77.665	MWD+IFR1+MS
8000.000	0.000	0.000	7887.403	30.669	0.000	29.301	0.000	11.545	0.000	0.000	30.732	29.235	78.016	MWD+IFR1+MS
8100.000	0.000	0.000	7987.403	31.002	0.000	29.643	0.000	11.724	0.000	0.000	31.061	29.581	78.367	MWD+IFR1+MS
8200.000	0.000	0.000	8087.403	31.336	0.000	29.985	0.000	11.907	0.000	0.000	31.390	29.927	78.718	MWD+IFR1+MS
8300.000	0.000	0.000	8187.403	31.670	0.000	30.327	0.000	12.092	0.000	0.000	31.720	30.274	79.069	MWD+IFR1+MS
8400.000	0.000	0.000	8287.403	32.004	0.000	30.669	0.000	12.281	0.000	0.000	32.051	30.620	79.420	MWD+IFR1+MS
8500.000	0.000	0.000	8387.403	32.339	0.000	31.012	0.000	12.472	0.000	0.000	32.383	30.967	79.772	MWD+IFR1+MS
8600.000	0.000	0.000	8487.403	32.675	0.000	31.356	0.000	12.667	0.000	0.000	32.715	31.314	80.123	MWD+IFR1+MS
8700.000	0.000	0.000	8587.403	33.011	0.000	31.699	0.000	12.865	0.000	0.000	33.048	31.660	80.474	MWD+IFR1+MS
8800.000	0.000	0.000	8687.403	33.347	0.000	32.043	0.000	13.066	0.000	0.000	33.382	32.008	80.824	MWD+IFR1+MS
8900.000	0.000	0.000	8787.403	33.684	0.000	32.388	0.000	13.270	0.000	0.000	33.716	32.355	81.174	MWD+IFR1+MS
9000.000	0.000	0.000	8887.403	34.022	0.000	32.732	0.000	13.477	0.000	0.000	34.050	32.702	81.523	MWD+IFR1+MS
9100.000	0.000	0.000	8987.403	34.360	0.000	33.077	0.000	13.687	0.000	0.000	34.386	33.050	81.872	MWD+IFR1+MS
9200.000	0.000	0.000	9087.403	34.698	0.000	33.422	0.000	13.900	0.000	0.000	34.722	33.398	82.220	MWD+IFR1+MS
9300.000	0.000	0.000	9187.403	35.036	0.000	33.768	0.000	14.116	0.000	0.000	35.058	33.745	82.567	MWD+IFR1+MS

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9400.000	0.000	0.000	9287.403	35.375	0.000	34.113	0.000	14.336	0.000	0.000	35.395	34.093	82.913	MWD+IFR1+MS
9500.000	0.000	0.000	9387.403	35.715	0.000	34.459	0.000	14.559	0.000	0.000	35.732	34.441	83.258	MWD+IFR1+MS
9600.000	0.000	0.000	9487.403	36.055	0.000	34.806	0.000	14.784	0.000	0.000	36.070	34.789	83.602	MWD+IFR1+MS
9700.000	0.000	0.000	9587.403	36.395	0.000	35.152	0.000	15.013	0.000	0.000	36.409	35.138	83.944	MWD+IFR1+MS
9800.000	0.000	0.000	9687.403	36.735	0.000	35.499	0.000	15.245	0.000	0.000	36.748	35.486	84.286	MWD+IFR1+MS
9900.000	0.000	0.000	9787.403	37.076	0.000	35.846	0.000	15.480	0.000	0.000	37.087	35.835	84.625	MWD+IFR1+MS
10000.000	0.000	0.000	9887.403	37.417	0.000	36.193	0.000	15.719	0.000	0.000	37.427	36.183	84.963	MWD+IFR1+MS
10100.000	0.000	0.000	9987.403	37.759	0.000	36.540	0.000	15.960	0.000	0.000	37.767	36.532	85.300	MWD+IFR1+MS
10200.000	0.000	0.000	10087.403	38.101	0.000	36.888	0.000	16.205	0.000	0.000	38.108	36.881	85.635	MWD+IFR1+MS
10300.000	0.000	0.000	10187.403	38.443	0.000	37.236	0.000	16.453	0.000	0.000	38.449	37.230	85.968	MWD+IFR1+MS
10400.000	0.000	0.000	10287.403	38.785	0.000	37.584	0.000	16.704	0.000	0.000	38.790	37.579	86.299	MWD+IFR1+MS
10500.000	0.000	0.000	10387.403	39.128	0.000	37.932	0.000	16.958	0.000	0.000	39.132	37.928	86.629	MWD+IFR1+MS
10600.000	0.000	0.000	10487.403	39.471	0.000	38.280	0.000	17.215	0.000	0.000	39.474	38.277	86.956	MWD+IFR1+MS
10700.000	0.000	0.000	10587.403	39.814	0.000	38.629	0.000	17.475	0.000	0.000	39.817	38.626	87.281	MWD+IFR1+MS
10800.000	0.000	0.000	10687.403	40.158	0.000	38.978	0.000	17.739	0.000	0.000	40.160	38.976	87.604	MWD+IFR1+MS
10900.000	0.000	0.000	10787.403	40.501	0.000	39.327	0.000	18.006	0.000	0.000	40.503	39.325	87.925	MWD+IFR1+MS
11000.000	0.000	0.000	10887.403	40.845	0.000	39.676	0.000	18.276	0.000	0.000	40.846	39.675	88.244	MWD+IFR1+MS
11032.39	7 0.000	0.000	10919.800	40.956	0.000	39.788	0.000	18.364	0.000	0.000	40.957	39.787	88.286	MWD+IFR1+MS
11100.000	0 5.408	179.678	10987.303	40.840	0.000	40.008	-0.000	18.548	0.000	0.000	41.222	40.007	88.517	MWD+IFR1+MS
11200.000	0 13.408	179.678	11085.877	40.785	0.000	40.309	-0.000	18.860	0.000	0.000	42.208	40.309	90.508	MWD+IFR1+MS
11300.000	0 21.408	179.678	11181.220	40.442	0.000	40.591	-0.000	19.310	0.000	0.000	43.380	40.588	91.683	MWD+IFR1+MS
11400.000	0 29.408	179.678	11271.474	39.559	0.000	40.850	-0.000	19.943	0.000	0.000	44.398	40.843	92.314	MWD+IFR1+MS
11500.000	0 37.408	179.678	11354.883	38.225	0.000	41.083	-0.000	20.794	0.000	0.000	45.246	41.071	92.740	MWD+IFR1+MS
11600.000	0 45.408	179.678	11429.823	36.565	0.000	41.288	-0.000	21.869	0.000	0.000	45.917	41.271	93.059	MWD+IFR1+MS
11700.000	0 53.408	179.678	11494.837	34.738	0.000	41.465	-0.000	23.149	0.000	0.000	46.414	41.444	93.304	MWD+IFR1+MS
11800.000	0 61.408	179.678	11548.658	32.945	0.000	41.612	-0.000	24.597	0.000	0.000	46.751	41.588	93.476	MWD+IFR1+MS
11900.000	0 69.408	179.678	11590.239	31.419	0.000	41.729	-0.000	26.162	0.000	0.000	46.950	41.703	93.559	MWD+IFR1+MS
12000.000	0 77.408	179.678	11618.771	30.408	0.000	41.815	-0.000	27.791	0.000	0.000	47.043	41.790	93.525	MWD+IFR1+MS
12100.000	0 85.408	179.678	11633.699	30.128	0.000	41.871	-0.000	29.427	0.000	0.000	47.068	41.848	93.335	MWD+IFR1+MS
12157.39	7 90.000	179.678	11635.997	29.817	0.000	41.887	-0.000	29.817	0.000	0.000	47.068	41.867	93.131	MWD+IFR1+MS
12200.000	0 90.000	179.678	11635.997	29.912	0.000	41.895	-0.000	29.912	0.000	0.000	47.068	41.877	92.960	MWD+IFR1+MS
12300.000	0 90.000	179.678	11635.997	30.095	0.000	41.928	-0.000	30.095	0.000	0.000	47.068	41.914	92.565	MWD+IFR1+MS
12400.000	0 90.000	179.678	11635.997	30.300	0.000	41.977	-0.000	30.300	0.000	0.000	47.069	41.967	92.171	MWD+IFR1+MS

12500.000	90.000	179.678	11635.997	30.525	0.000	42.041	-0.000	30.525	0.000	0.000	47.070	42.034	91.775 MWD+IFR1+MS
12600.000	90.000	179.678	11635.997	30.767	0.000	42.118	-0.000	30.767	0.000	0.000	47.073	42.113	91.374 MWD+IFR1+MS
12700.000	90.000	179.678	11635.997	31.028	0.000	42.208	-0.000	31.028	0.000	0.000	47.077	42.206	90.964 MWD+IFR1+MS
12800.000	90.000	179.678	11635.997	31.306	0.000	42.313	-0.000	31.306	0.000	0.000	47.083	42.312	90.543 MWD+IFR1+MS
12900.000	90.000	179.678	11635.997	31.601	0.000	42.431	-0.000	31.601	0.000	0.000	47.089	42.431	90.105 MWD+IFR1+MS
13000.000	90.000	179.678	11635.997	31.913	0.000	42.562	-0.000	31.913	0.000	0.000	47.096	42.562	89.647 MWD+IFR1+MS
13100.000	90.000	179.678	11635.997	32.241	0.000	42.707	-0.000	32.241	0.000	0.000	47.105	42.707	89.164 MWD+IFR1+MS
13200.000	90.000	179.678	11635.997	32.584	0.000	42.865	-0.000	32.584	0.000	0.000	47.115	42.864	88.648 MWD+IFR1+MS
13300.000	90.000	179.678	11635.997	32.943	0.000	43.036	-0.000	32.943	0.000	0.000	47.126	43.033	88.094 MWD+IFR1+MS
13400.000	90.000	179.678	11635.997	33.316	0.000	43.220	-0.000	33.316	0.000	0.000	47.139	43.214	87.490 MWD+IFR1+MS
13500.000	90.000	179.678	11635.997	33.703	0.000	43.417	-0.000	33.703	0.000	0.000	47.153	43.407	86.827 MWD+IFR1+MS
13600.000	90.000	179.678	11635.997	34.104	0.000	43.626	-0.000	34.104	0.000	0.000	47.169	43.611	86.088 MWD+IFR1+MS
13700.000	90.000	179.678	11635.997	34.518	0.000	43.847	-0.000	34.518	0.000	0.000	47.186	43.827	85.256 MWD+IFR1+MS
13800.000	90.000	179.678	11635.997	34.945	0.000	44.081	-0.000	34.945	0.000	0.000	47.206	44.052	84.305 MWD+IFR1+MS
13900.000	90.000	179.678	11635.997	35.384	0.000	44.327	-0.000	35.384	0.000	0.000	47.229	44.288	83.202 MWD+IFR1+MS
14000.000	90.000	179.678	11635.997	35.835	0.000	44.584	-0.000	35.835	0.000	0.000	47.255	44.533	81.903 MWD+IFR1+MS
14100.000	90.000	179.678	11635.997	36.298	0.000	44.853	-0.000	36.298	0.000	0.000	47.285	44.786	80.346 MWD+IFR1+MS
14200.000	90.000	179.678	11635.997	36.771	0.000	45.134	-0.000	36.771	0.000	0.000	47.320	45.046	78.446 MWD+IFR1+MS
14300.000	90.000	179.678	11635.997	37.255	0.000	45.426	-0.000	37.255	0.000	0.000	47.362	45.310	76.082 MWD+IFR1+MS
14400.000	90.000	179.678	11635.997	37.749	0.000	45.728	-0.000	37.749	0.000	0.000	47.415	45.576	73.090 MWD+IFR1+MS
14500.000	90.000	179.678	11635.997	38.252	0.000	46.042	-0.000	38.252	0.000	0.000	47.481	45.838	69.259 MWD+IFR1+MS
14600.000	90.000	179.678	11635.997	38.765	0.000	46.365	-0.000	38.765	0.000	0.000	47.568	46.092	64.360 MWD+IFR1+MS
14700.000	90.000	179.678	11635.997	39.287	0.000	46.700	-0.000	39.287	0.000	0.000	47.685	46.327	58.264 MWD+IFR1+MS
14800.000	90.000	179.678	11635.997	39.818	0.000	47.044	-0.000	39.818	0.000	0.000	47.840	46.533	51.183 MWD+IFR1+MS
14900.000	90.000	179.678	11635.997	40.357	0.000	47.398	-0.000	40.357	0.000	0.000	48.043	46.703	43.806 MWD+IFR1+MS
15000.000	90.000	179.678	11635.997	40.903	0.000	47.762	-0.000	40.903	0.000	0.000	48.292	46.837	37.011 MWD+IFR1+MS
15100.000	90.000	179.678	11635.997	41.458	0.000	48.135	-0.000	41.458	0.000	0.000	48.582	46.939	31.332 MWD+IFR1+MS
15200.000	90.000	179.678	11635.997	42.020	0.000	48.517	-0.000	42.020	0.000	0.000	48.904	47.020	26.835 MWD+IFR1+MS
15300.000	90.000	179.678	11635.997	42.589	0.000	48.909	-0.000	42.589	0.000	0.000	49.251	47.084	23.336 MWD+IFR1+MS
15400.000	90.000	179.678	11635.997	43.164	0.000	49.309	-0.000	43.164	0.000	0.000	49.619	47.139	20.606 MWD+IFR1+MS
15500.000	90.000	179.678	11635.997	43.746	0.000	49.718	-0.000	43.746	0.000	0.000	50.002	47.186	18.446 MWD+IFR1+MS
15600.000	90.000	179.678	11635.997	44.335	0.000	50.135	-0.000	44.335	0.000	0.000	50.399	47.228	16.710 MWD+IFR1+MS
15700.000	90.000	179.678	11635.997	44.929	0.000	50.560	-0.000	44.929	0.000	0.000	50.809	47.267	15.291 MWD+IFR1+MS

15800.000	90.000	179.678	11635.997	45.529	0.000	50.994	-0.000	45.529	0.000	0.000	51.229	47.303	14.113 N	MWD+IFR1+MS
15900.000	90.000	179.678	11635.997	46.135	0.000	51.434	-0.000	46.135	0.000	0.000	51.659	47.338	13.119 N	//WD+IFR1+MS
16000.000	90.000	179.678	11635.997	46.746	0.000	51.883	-0.000	46.746	0.000	0.000	52.098	47.372	12.271 N	//WD+IFR1+MS
16100.000	90.000	179.678	11635.997	47.362	0.000	52.339	-0.000	47.362	0.000	0.000	52.546	47.406	11.539 N	//WD+IFR1+MS
16200.000	90.000	179.678	11635.997	47.983	0.000	52.802	-0.000	47.983	0.000	0.000	53.002	47.438	10.900 N	//WD+IFR1+MS
16300.000	90.000	179.678	11635.997	48.609	0.000	53.272	-0.000	48.609	0.000	0.000	53.466	47.471	10.337 N	//WD+IFR1+MS
16400.000	90.000	179.678	11635.997	49.239	0.000	53.749	-0.000	49.239	0.000	0.000	53.937	47.503	9.838 N	//WD+IFR1+MS
16500.000	90.000	179.678	11635.997	49.874	0.000	54.232	-0.000	49.874	0.000	0.000	54.416	47.535	9.391 N	//WD+IFR1+MS
16600.000	90.000	179.678	11635.997	50.513	0.000	54.722	-0.000	50.513	0.000	0.000	54.902	47.568	8.989 N	//WD+IFR1+MS
16700.000	90.000	179.678	11635.997	51.156	0.000	55.218	-0.000	51.156	0.000	0.000	55.394	47.601	8.625 N	//WD+IFR1+MS
16800.000	90.000	179.678	11635.997	51.803	0.000	55.720	-0.000	51.803	0.000	0.000	55.892	47.634	8.293 N	//WD+IFR1+MS
16900.000	90.000	179.678	11635.997	52.454	0.000	56.229	-0.000	52.454	0.000	0.000	56.397	47.667	7.990 N	//WD+IFR1+MS
17000.000	90.000	179.678	11635.997	53.108	0.000	56.743	-0.000	53.108	0.000	0.000	56.908	47.700	7.711 N	//WD+IFR1+MS
17100.000	90.000	179.678	11635.997	53.766	0.000	57.262	-0.000	53.766	0.000	0.000	57.425	47.734	7.454 N	//WD+IFR1+MS
17200.000	90.000	179.678	11635.997	54.427	0.000	57.787	-0.000	54.427	0.000	0.000	57.947	47.769	7.216 N	//WD+IFR1+MS
17300.000	90.000	179.678	11635.997	55.091	0.000	58.318	-0.000	55.091	0.000	0.000	58.475	47.803	6.995 N	//WD+IFR1+MS
17400.000	90.000	179.678	11635.997	55.759	0.000	58.853	-0.000	55.759	0.000	0.000	59.008	47.838	6.788 N	//WD+IFR1+MS
17500.000	90.000	179.678	11635.997	56.430	0.000	59.394	-0.000	56.430	0.000	0.000	59.547	47.874	6.596 N	//WD+IFR1+MS
17600.000	90.000	179.678	11635.997	57.103	0.000	59.939	-0.000	57.103	0.000	0.000	60.090	47.910	6.415 N	//WD+IFR1+MS
17700.000	90.000	179.678	11635.997	57.779	0.000	60.490	-0.000	57.779	0.000	0.000	60.638	47.947	6.245 N	//WD+IFR1+MS
17800.000	90.000	179.678	11635.997	58.458	0.000	61.045	-0.000	58.458	0.000	0.000	61.191	47.984	6.085 N	//WD+IFR1+MS
17900.000	90.000	179.678	11635.997	59.140	0.000	61.604	-0.000	59.140	0.000	0.000	61.749	48.021	5.934 N	//WD+IFR1+MS
18000.000	90.000	179.678	11635.997	59.824	0.000	62.168	-0.000	59.824	0.000	0.000	62.311	48.059	5.791 N	//WD+IFR1+MS
18100.000	90.000	179.678	11635.997	60.511	0.000	62.736	-0.000	60.511	0.000	0.000	62.877	48.098	5.656 N	//WD+IFR1+MS
18200.000	90.000	179.678	11635.997	61.200	0.000	63.308	-0.000	61.200	0.000	0.000	63.448	48.137	5.527 N	//WD+IFR1+MS
18300.000	90.000	179.678	11635.997	61.891	0.000	63.884	-0.000	61.891	0.000	0.000	64.023	48.176	5.405 N	//WD+IFR1+MS
18400.000	90.000	179.678	11635.997	62.584	0.000	64.465	-0.000	62.584	0.000	0.000	64.602	48.217	5.289 N	//WD+IFR1+MS
18500.000	90.000	179.678	11635.997	63.280	0.000	65.049	-0.000	63.280	0.000	0.000	65.184	48.257	5.178 N	//WD+IFR1+MS
18600.000	90.000	179.678	11635.997	63.977	0.000	65.637	-0.000	63.977	0.000	0.000	65.771	48.298	5.072 N	//WD+IFR1+MS
18700.000	90.000	179.678	11635.997	64.677	0.000	66.228	-0.000	64.677	0.000	0.000	66.361	48.340	4.970 N	//WD+IFR1+MS
18800.000	90.000	179.678	11635.997	65.379	0.000	66.823	-0.000	65.379	0.000	0.000	66.954	48.382	4.873 N	//WD+IFR1+MS
18900.000	90.000	179.678	11635.997	66.082	0.000	67.421	-0.000	66.082	0.000	0.000	67.551	48.425	4.780 N	//WD+IFR1+MS
19000.000	90.000	179.678	11635.997	66.787	0.000	68.023	-0.000	66.787	0.000	0.000	68.152	48.468	4.691 N	//WD+IFR1+MS

19100.000	90.000	179.678	11635.997	67.494	0.000	68.628	-0.000	67.494	0.000	0.000	68.756	48.512	4.605	MWD+IFR1+MS
19200.000	90.000	179.678	11635.997	68.203	0.000	69.236	-0.000	68.203	0.000	0.000	69.363	48.556	4.523	MWD+IFR1+MS
19300.000	90.000	179.678	11635.997	68.913	0.000	69.848	-0.000	68.913	0.000	0.000	69.973	48.601	4.443	MWD+IFR1+MS
19400.000	90.000	179.678	11635.997	69.625	0.000	70.462	-0.000	69.625	0.000	0.000	70.586	48.647	4.367	MWD+IFR1+MS
19500.000	90.000	179.678	11635.997	70.339	0.000	71.079	-0.000	70.339	0.000	0.000	71.202	48.692	4.293	MWD+IFR1+MS
19600.000	90.000	179.678	11635.997	71.054	0.000	71.700	-0.000	71.054	0.000	0.000	71.821	48.739	4.222	MWD+IFR1+MS
19700.000	90.000	179.678	11635.997	71.770	0.000	72.322	-0.000	71.770	0.000	0.000	72.443	48.786	4.153	MWD+IFR1+MS
19800.000	90.000	179.678	11635.997	72.488	0.000	72.948	-0.000	72.488	0.000	0.000	73.068	48.833	4.087	MWD+IFR1+MS
19900.000	90.000	179.678	11635.997	73.207	0.000	73.576	-0.000	73.207	0.000	0.000	73.695	48.881	4.023	MWD+IFR1+MS
20000.000	90.000	179.678	11635.997	73.928	0.000	74.207	-0.000	73.928	0.000	0.000	74.325	48.930	3.961	MWD+IFR1+MS
20100.000	90.000	179.678	11635.997	74.650	0.000	74.841	-0.000	74.650	0.000	0.000	74.957	48.979	3.900	MWD+IFR1+MS
20200.000	90.000	179.678	11635.997	75.373	0.000	75.476	-0.000	75.373	0.000	0.000	75.592	49.029	3.842	MWD+IFR1+MS
20300.000	90.000	179.678	11635.997	76.097	0.000	76.115	-0.000	76.097	0.000	0.000	76.229	49.079	3.786	MWD+IFR1+MS
20400.000	90.000	179.678	11635.997	76.823	0.000	76.755	-0.000	76.823	0.000	0.000	76.869	49.130	3.731	MWD+IFR1+MS
20500.000	90.000	179.678	11635.997	77.550	0.000	77.398	-0.000	77.550	0.000	0.000	77.511	49.181	3.677	MWD+IFR1+MS
20600.000	90.000	179.678	11635.997	78.278	0.000	78.043	-0.000	78.278	0.000	0.000	78.155	49.233	3.626	MWD+IFR1+MS
20700.000	90.000	179.678	11635.997	79.006	0.000	78.690	-0.000	79.006	0.000	0.000	78.801	49.285	3.575	MWD+IFR1+MS
20800.000	90.000	179.678	11635.997	79.736	0.000	79.340	-0.000	79.736	0.000	0.000	79.450	49.338	3.526	MWD+IFR1+MS
20900.000	90.000	179.678	11635.997	80.467	0.000	79.991	-0.000	80.467	0.000	0.000	80.100	49.391	3.479	MWD+IFR1+MS
21000.000	90.000	179.678	11635.997	81.199	0.000	80.644	-0.000	81.199	0.000	0.000	80.753	49.445	3.433	MWD+IFR1+MS
21100.000	90.000	179.678	11635.997	81.932	0.000	81.300	-0.000	81.932	0.000	0.000	81.407	49.499	3.388	MWD+IFR1+MS
21200.000	90.000	179.678	11635.997	82.666	0.000	81.957	-0.000	82.666	0.000	0.000	82.063	49.554	3.344	MWD+IFR1+MS
21300.000	90.000	179.678	11635.997	83.401	0.000	82.616	-0.000	83.401	0.000	0.000	82.722	49.609	3.301	MWD+IFR1+MS
21400.000	90.000	179.678	11635.997	84.137	0.000	83.277	-0.000	84.137	0.000	0.000	83.382	49.665	3.259	MWD+IFR1+MS
21500.000	90.000	179.678	11635.997	84.874	0.000	83.940	-0.000	84.874	0.000	0.000	84.044	49.722	3.219	MWD+IFR1+MS
21600.000	90.000	179.678	11635.997	85.611	0.000	84.604	-0.000	85.611	0.000	0.000	84.707	49.779	3.179	MWD+IFR1+MS
21700.000	90.000	179.678	11635.997	86.349	0.000	85.270	-0.000	86.349	0.000	0.000	85.373	49.836	3.140	MWD+IFR1+MS
21800.000	90.000	179.678	11635.997	87.089	0.000	85.938	-0.000	87.089	0.000	0.000	86.040	49.894	3.102	MWD+IFR1+MS
21900.000	90.000	179.678	11635.997	87.829	0.000	86.607	-0.000	87.829	0.000	0.000	86.708	49.953	3.066	MWD+IFR1+MS
22000.000	90.000	179.678	11635.997	88.569	0.000	87.278	-0.000	88.569	0.000	0.000	87.379	50.012	3.029	MWD+IFR1+MS
22100.000	90.000	179.678	11635.997	89.311	0.000	87.951	-0.000	89.311	0.000	0.000	88.051	50.071	2.994	MWD+IFR1+MS
22200.000	90.000	179.678	11635.997	90.053	0.000	88.625	-0.000	90.053	0.000	0.000	88.724	50.131	2.960	MWD+IFR1+MS
22300.000	90.000	179.678	11635.997	90.796	0.000	89.300	-0.000	90.796	0.000	0.000	89.399	50.191	2.926	MWD+IFR1+MS

22400.000	90.000	179.678	11635.997	91.539	0.000	89.977	-0.000	91.539	0.000	0.000	90.075	50.252	2.893 MWD+IFR1+MS
22500.000	90.000	179.678	11635.997	92.284	0.000	90.656	-0.000	92.284	0.000	0.000	90.753	50.314	2.861 MWD+IFR1+MS
22600.000	90.000	179.678	11635.997	93.029	0.000	91.335	-0.000	93.029	0.000	0.000	91.432	50.376	2.829 MWD+IFR1+MS
22700.000	90.000	179.678	11635.997	93.774	0.000	92.017	-0.000	93.774	0.000	0.000	92.112	50.438	2.799 MWD+IFR1+MS
22800.000	90.000	179.678	11635.997	94.521	0.000	92.699	-0.000	94.521	0.000	0.000	92.794	50.501	2.768 MWD+IFR1+MS
22900.000	90.000	179.678	11635.997	95.267	0.000	93.383	-0.000	95.267	0.000	0.000	93.477	50.565	2.739 MWD+IFR1+MS
23000.000	90.000	179.678	11635.997	96.015	0.000	94.068	-0.000	96.015	0.000	0.000	94.161	50.628	2.710 MWD+IFR1+MS
23100.000	90.000	179.678	11635.997	96.763	0.000	94.754	-0.000	96.763	0.000	0.000	94.847	50.693	2.681 MWD+IFR1+MS
23200.000	90.000	179.678	11635.997	97.512	0.000	95.441	-0.000	97.512	0.000	0.000	95.534	50.758	2.653 MWD+IFR1+MS
23300.000	90.000	179.678	11635.997	98.261	0.000	96.130	-0.000	98.261	0.000	0.000	96.222	50.823	2.626 MWD+IFR1+MS
23400.000	90.000	179.678	11635.997	99.010	0.000	96.820	-0.000	99.010	0.000	0.000	96.911	50.889	2.599 MWD+IFR1+MS
23500.000	90.000	179.678	11635.997	99.761	0.000	97.510	-0.000	99.761	0.000	0.000	97.601	50.955	2.573 MWD+IFR1+MS
23600.000	90.000	179.678	11635.997	100.512	0.000	98.202	-0.000	100.512	0.000	0.000	98.292	51.022	2.547 MWD+IFR1+MS
23700.000	90.000	179.678	11635.997	101.263	0.000	98.896	-0.000	101.263	0.000	0.000	98.985	51.089	2.522 MWD+IFR1+MS
23800.000	90.000	179.678	11635.997	102.015	0.000	99.590	-0.000	102.015	0.000	0.000	99.679	51.157	2.497 MWD+IFR1+MS
23900.000	90.000	179.678	11635.997	102.767	0.000	100.285	-0.000	102.767	0.000	0.000	100.373	51.225	2.473 MWD+IFR1+MS
24000.000	90.000	179.678	11635.997	103.520	0.000	100.981	-0.000	103.520	0.000	0.000	101.069	51.294	2.449 MWD+IFR1+MS
24100.000	90.000	179.678	11635.997	104.273	0.000	101.678	-0.000	104.273	0.000	0.000	101.765	51.363	2.425 MWD+IFR1+MS
24200.000	90.000	179.678	11635.997	105.027	0.000	102.376	-0.000	105.027	0.000	0.000	102.463	51.433	2.402 MWD+IFR1+MS
24300.000	90.000	179.678	11635.997	105.781	0.000	103.076	-0.000	105.781	0.000	0.000	103.162	51.503	2.379 MWD+IFR1+MS
24400.000	90.000	179.678	11635.997	106.536	0.000	103.776	-0.000	106.536	0.000	0.000	103.861	51.574	2.357 MWD+IFR1+MS
24500.000	90.000	179.678	11635.997	107.291	0.000	104.477	-0.000	107.291	0.000	0.000	104.562	51.645	2.335 MWD+IFR1+MS
24600.000	90.000	179.678	11635.997	108.046	0.000	105.179	-0.000	108.046	0.000	0.000	105.263	51.716	2.314 MWD+IFR1+MS
24700.000	90.000	179.678	11635.997	108.802	0.000	105.881	-0.000	108.802	0.000	0.000	105.965	51.788	2.292 MWD+IFR1+MS
24800.000	90.000	179.678	11635.997	109.559	0.000	106.585	-0.000	109.559	0.000	0.000	106.668	51.860	2.272 MWD+IFR1+MS
24900.000	90.000	179.678	11635.997	110.315	0.000	107.289	-0.000	110.315	0.000	0.000	107.372	51.933	2.251 MWD+IFR1+MS
25000.000	90.000	179.678	11635.997	111.072	0.000	107.995	-0.000	111.072	0.000	0.000	108.077	52.007	2.231 MWD+IFR1+MS
25100.000	90.000	179.678	11635.997	111.830	0.000	108.701	-0.000	111.830	0.000	0.000	108.783	52.080	2.211 MWD+IFR1+MS
25200.000	90.000	179.678	11635.997	112.588	0.000	109.408	-0.000	112.588	0.000	0.000	109.489	52.154	2.192 MWD+IFR1+MS
25300.000	90.000	179.678	11635.997	113.346	0.000	110.115	-0.000	113.346	0.000	0.000	110.196	52.229	2.172 MWD+IFR1+MS
25400.000	90.000	179.678	11635.997	114.105	0.000	110.824	-0.000	114.105	0.000	0.000	110.904	52.304	2.154 MWD+IFR1+MS
25500.000	90.000	179.678	11635.997	114.863	0.000	111.533	-0.000	114.863	0.000	0.000	111.613	52.380	2.135 MWD+IFR1+MS
25600.000	90.000	179.678	11635.997	115.623	0.000	112.243	-0.000	115.623	0.000	0.000	112.323	52.456	2.117 MWD+IFR1+MS

25700.000	90.000	179.678	11635.997	116.382	0.000	112.954	-0.000	116.382	0.000	0.000	113.033	52.532	2.099	MWD+IFR1+MS
25800.000	90.000	179.678	11635.997	117.142	0.000	113.665	-0.000	117.142	0.000	0.000	113.744	52.609	2.081	MWD+IFR1+MS
25900.000	90.000	179.678	11635.997	117.903	0.000	114.377	-0.000	117.903	0.000	0.000	114.456	52.686	2.064	MWD+IFR1+MS
26000.000	90.000	179.678	11635.997	118.663	0.000	115.090	-0.000	118.663	0.000	0.000	115.168	52.764	2.046	MWD+IFR1+MS
26100.000	90.000	179.678	11635.997	119.424	0.000	115.804	-0.000	119.424	0.000	0.000	115.881	52.842	2.029	MWD+IFR1+MS
26200.000	90.000	179.678	11635.997	120.185	0.000	116.518	-0.000	120.185	0.000	0.000	116.595	52.921	2.013	MWD+IFR1+MS
26300.000	90.000	179.678	11635.997	120.947	0.000	117.233	-0.000	120.947	0.000	0.000	117.309	53.000	1.996	MWD+IFR1+MS
26400.000	90.000	179.678	11635.997	121.709	0.000	117.948	-0.000	121.709	0.000	0.000	118.024	53.079	1.980	MWD+IFR1+MS
26500.000	90.000	179.678	11635.997	122.471	0.000	118.664	-0.000	122.471	0.000	0.000	118.740	53.159	1.964	MWD+IFR1+MS
26600.000	90.000	179.678	11635.997	123.233	0.000	119.381	-0.000	123.233	0.000	0.000	119.456	53.239	1.948	MWD+IFR1+MS
26700.000	90.000	179.678	11635.997	123.996	0.000	120.098	-0.000	123.996	0.000	0.000	120.173	53.320	1.933	MWD+IFR1+MS
26800.000	90.000	179.678	11635.997	124.759	0.000	120.816	-0.000	124.759	0.000	0.000	120.890	53.401	1.918	MWD+IFR1+MS
26900.000	90.000	179.678	11635.997	125.522	0.000	121.534	-0.000	125.522	0.000	0.000	121.608	53.482	1.902	MWD+IFR1+MS
27000.000	90.000	179.678	11635.997	126.285	0.000	122.253	-0.000	126.285	0.000	0.000	122.327	53.564	1.888	MWD+IFR1+MS
27100.000	90.000	179.678	11635.997	127.049	0.000	122.973	-0.000	127.049	0.000	0.000	123.046	53.647	1.873	MWD+IFR1+MS
27200.000	90.000	179.678	11635.997	127.813	0.000	123.693	-0.000	127.813	0.000	0.000	123.766	53.730	1.858	MWD+IFR1+MS
27300.000	90.000	179.678	11635.997	128.577	0.000	124.414	-0.000	128.577	0.000	0.000	124.486	53.813	1.844	MWD+IFR1+MS
27400.000	90.000	179.678	11635.997	129.342	0.000	125.135	-0.000	129.342	0.000	0.000	125.207	53.896	1.830	MWD+IFR1+MS
27500.000	90.000	179.678	11635.997	130.107	0.000	125.857	-0.000	130.107	0.000	0.000	125.928	53.980	1.816	MWD+IFR1+MS
27600.000	90.000	179.678	11635.997	130.872	0.000	126.579	-0.000	130.872	0.000	0.000	126.650	54.065	1.802	MWD+IFR1+MS
27700.000	90.000	179.678	11635.997	131.637	0.000	127.302	-0.000	131.637	0.000	0.000	127.373	54.149	1.789	MWD+IFR1+MS
27800.000	90.000	179.678	11635.997	132.402	0.000	128.025	-0.000	132.402	0.000	0.000	128.095	54.235	1.776	MWD+IFR1+MS
27900.000	90.000	179.678	11635.997	133.168	0.000	128.749	-0.000	133.168	0.000	0.000	128.819	54.320	1.762	MWD+IFR1+MS
28000.000	90.000	179.678	11635.997	133.934	0.000	129.473	-0.000	133.934	0.000	0.000	129.543	54.406	1.749	MWD+IFR1+MS
28100.000	90.000	179.678	11635.997	134.700	0.000	130.198	-0.000	134.700	0.000	0.000	130.267	54.492	1.736	MWD+IFR1+MS
28200.000	90.000	179.678	11635.997	135.466	0.000	130.923	-0.000	135.466	0.000	0.000	130.992	54.579	1.724	MWD+IFR1+MS
28300.000	90.000	179.678	11635.997	136.233	0.000	131.648	-0.000	136.233	0.000	0.000	131.717	54.666	1.711	MWD+IFR1+MS
28400.000	90.000	179.678	11635.997	136.999	0.000	132.374	-0.000	136.999	0.000	0.000	132.443	54.754	1.699	MWD+IFR1+MS
28500.000	90.000	179.678	11635.997	137.766	0.000	133.101	-0.000	137.766	0.000	0.000	133.169	54.842	1.687	MWD+IFR1+MS
28600.000	90.000	179.678	11635.997	138.533	0.000	133.828	-0.000	138.533	0.000	0.000	133.896	54.930	1.675	MWD+IFR1+MS
28700.000	90.000	179.678	11635.997	139.301	0.000	134.555	-0.000	139.301	0.000	0.000	134.623	55.019	1.663	MWD+IFR1+MS
28800.000	90.000	179.678	11635.997	140.068	0.000	135.283	-0.000	140.068	0.000	0.000	135.350	55.108	1.651	MWD+IFR1+MS
28900.000	90.000	179.678	11635.997	140.836	0.000	136.011	-0.000	140.836	0.000	0.000	136.078	55.197	1.639	MWD+IFR1+MS

8359.00 RECTANGLE

8359.00 RECTANGLE

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LTP 6

BHL 6

Well Plan Report	Well	Plan	Report
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29000.000	90.000	179.678	11635.997	141.604	0.000	136.740	-0.000	141.604	0.000	0.000	136.806	55.287	1.628	MWD+IFR1+MS
29100.000	90.000	179.678	11635.997	142.372	0.000	137.469	-0.000	142.372	0.000	0.000	137.535	55.377	1.616	MWD+IFR1+MS
29200.000	90.000	179.678	11635.997	143.140	0.000	138.198	-0.000	143.140	0.000	0.000	138.264	55.468	1.605	MWD+IFR1+MS
29300.000	90.000	179.678	11635.997	143.909	0.000	138.928	-0.000	143.909	0.000	0.000	138.994	55.559	1.594	MWD+IFR1+MS
29400.000	90.000	179.678	11635.997	144.677	0.000	139.658	-0.000	144.677	0.000	0.000	139.723	55.650	1.583	MWD+IFR1+MS
29500.000	90.000	179.678	11635.997	145.446	0.000	140.389	-0.000	145.446	0.000	0.000	140.454	55.742	1.572	MWD+IFR1+MS
29551.888	90.000	179.678	11635.997	145.845	0.000	140.767	-0.000	145.845	0.000	0.000	140.832	55.789	1.567	MWD+IFR1+MS
29600.000	90.000	179.678	11635.997	146.214	0.000	141.118	-0.000	146.214	0.000	0.000	141.183	55.834	1.562	MWD+IFR1+MS
29653.490	90.000	179.678	11635.997	146.625	0.000	141.509	-0.000	146.625	0.000	0.000	141.573	55.883	1.556	MWD+IFR1+MS

422262.40

422162.40

631980.80

631981.30

Plan Targets	Poker Lake Unit 20 DTD South 217H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 6	11896.72	440374.40	631879.00	8359.00 RECTANGLE
SHL 7	11988.49	439668.23	632706.08	7464.88 RECTANGLE

29553.49

29653.49

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

XTO Energy Inc.

PLU 20 Dog Town Draw 217H
Projected TD: 29653.49' MD / 11636' TVD
SHL: 815' FNL & 2300' FWL , Section 20, T24S, R30E
BHL: 2443' FNL & 1480' FWL , Section 5, T25S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

Ā. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	809'	Water
Top of Salt	1212'	Water
Base of Salt	3405'	Water
Delaware	3599'	Water
Brushy Canyon	6097'	Water/Oil/Gas
Bone Spring	7393'	Water
1st Bone Spring	8379'	Water/Oil/Gas
2nd Bone Spring	9197'	Water/Oil/Gas
3rd Bone Spring	10291'	Water/Oil/Gas
Wolfcamp	10682'	Water/Oil/Gas
Wolfcamp X	10703'	Water/Oil/Gas
Wolfcamp Y	10781'	Water/Oil/Gas
Wolfcamp A	10823'	Water/Oil/Gas
Wolfcamp B	11157'	Water/Oil/Gas
Wolfcamp C	11365'	Water/Oil/Gas
Wolfcamp D	11606'	Water/Oil/Gas
Target/Land Curve	11636'	Water/Oil/Gas

^{***} Hydrocarbons @ Brushy Canyon

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 @ 909' (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 10832.4' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 29653.49 MD/TD and 6 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10532.4 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 909'	13.375	54.5	J-55	втс	New	1.09	2.85	18.35
12.25	0' – 4000'	9.625	40	HC P-110	втс	New	1.93	2.34	2.92
12.25	4000' – 10832.4'	9.625	40	HC L-80	втс	New	1.40	1.65	3.35
8.5	0' – 10732.4'	6	26	P-110	Semi-Premium	New	1.17	2.21	1.55
8.5	10732.4' - 29653.49'	6	26	P-110	Semi-Premium	New	1.17	2.04	1.76

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

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

[·] 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

Wellhead:

- Permanent Wellhead Multibowl System

 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 +/- 909'

Lead: 450 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 +/- 10832.4

1st Stage

Optional Lead: 1030 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 1370 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6097

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

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water)
Tail: 2150 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 (6097') 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 +/- 29653.49'

Lead: 40 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10532.4 feet
Tail: 3160 sxs VersaCem (mixed at 14.5 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 11032.4 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 N157a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 4096 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	Mud Type	MW	Viscosity	Fluid Loss
INTERVAL	TIGIC GIZC	widd Type	(ppg)	(sec/qt)	(cc)
0' - 909'	17.5	FW/Native	8.4-8.9	35-40	NC
909' - 10832.4'	12.25	FW / Cut Brine / Direct Emulsion	8.7-9.2	30-32	NC
10832.4' - 29653.49'	8.5	ОВМ	11-11.5	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 180 to 200 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6656 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.

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

C-102.dwg

217H

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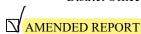
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Released to Imaging: 6/28/2024 8:34:28 AM

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



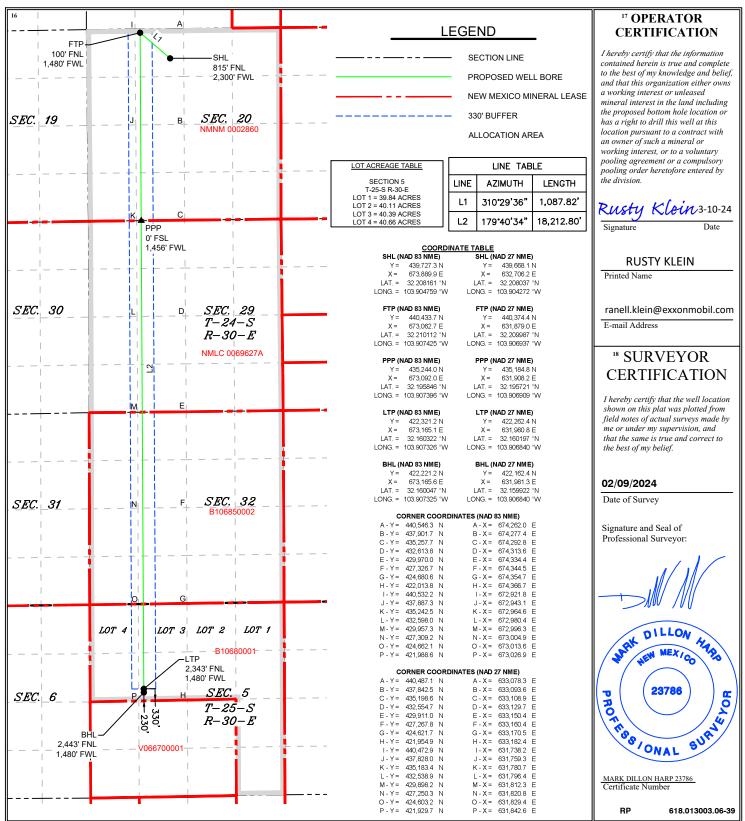
APD ID 10400089355

WELL LOCATION AND ACREAGE DEDICATION PLAT

 WEEL LOCATION AND MCKEAGE DEDICATION I EAT											
¹ API Number	•	² Pool Code									
30-015-		98220	Purple Sage; Wolfcamp (gas)								
⁴ Property Code		⁵ P	roperty Name	⁶ Well Number							
		POKER LAKE UNIT 20 DTD									
⁷ OGRID No.		⁸ O	perator Name	⁹ Elevation							
373075		3,245'									

UL or lot no.	Section	Section Township		Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
F	5	258	30E		2,443	NORTH	1,480	WEST	EDDY	
12 Dedicated Acres 13 Joint or Infill		Infill 14C	Consolidation (Code 15 Or	der No.					
2 321 00										

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



nten ⁻	t	As Dril	led									
API#												
Ope	rator Nai	me:			Property Name:						Well Number	
Kick C	Off Point	(KOP)										
UL	Section	Township	Range	Lot	Feet	Feet From N/S Feet			Fr	om E/W	County	
Latitu	ıde				Longitu	ıde					NAD	
UL	Section	t (FTP)	Range	Lot	Feet	From N	I/S	Feet	Fr	om E/W	County	
Latitu	Latitude			Longitu	ıde					NAD		
Last T	Take Point (LTP) Section Township Range Lot Feet From N/S Feet From E/W County							ty				
Latitu	iue				Longitu					NAD		
s this well the defining well for the Horizontal Spacing Unit?												
s this	well an	infill well?										
	l is yes p ng Unit.	lease provi	de API if	availal	ole, Ope	rator Name	and v	vell nu	umber fo	r Defini	ng well fo	or Horizontal
API#												
Ope	rator Nai	me:	ı			Property N	ame:					Well Number
												<u> </u>

KZ 06/29/2018

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

CONDITIONS

Action 359216

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	359216
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		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.	6/28/2024