U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repor
Well Name: POKER LAKE UNIT 19 DTD	Well Location: T24S / R30E / SEC 19 / NENW / 32.207172 / -103.921614	County or Parish/State: EDDY / NM
Well Number: 310H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM002860	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2781305

Type of Submission: Notice of Intent

Date Sundry Submitted: 03/22/2024

Date proposed operation will begin: 04/12/2024

Type of Action: APD Change Time Sundry Submitted: 03:35

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, casing sizes, cement, and proposed total depth. FROM: TO: SHL: 1123' FNL & 2441' FWL of Section 19-T24S-R30E 1051' FNL & 2425' FEL of Section 19-T24S-R30E FTP: 100' FSL & 2310' FWL of Section 18-T24S-R30E 100' FNL & 1962' FEL of Section 19-T24S-R30E LTP: 2540' FSL & 2310' FWL of Section 31-T23S-R30E 330' FSL & 1975' FEL of Section 31-T24S-R30E BHL: 2590' FSL & 2310' FWL of Section 31-T23S-R30E 330' FSL & 1975' FEL of Section 31-T24S-R30E BHL: 2590' FSL & 2310' FWL of Section 31-T23S-R30E 230' FSL & 1975' FEL of Section 31-T24S-R30E BHL: 2590' FSL & 2310' FWL of Section 31-T23S-R30E 230' FSL & 1975' FEL of Section 31-T24S-R30E BHL: 2590' FSL & 2310' FWL of Section 31-T23S-R30E 230' FSL & 1975' FEL of Section 31-T24S-R30E BHL: 2590' FSL & 2310' FWL of Section 31-T23S-R30E 230' FSL & 1975' FEL of Section 31-T24S-R30E Proposed total depth will change from 30206' MD; 11466' TVD (Wolfcamp) to 26120' MD; TVD 10780' (Wolfcamp A). See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Drilling Plan, MBS, BOP Variance, Well Control Plan

NOI Attachments

Procedure Description

POKER_LAKE_UNIT_19_DTD_310H_Sundry_Attachments_20240322153501.pdf

Received by OCD: 5/9/2024 3:20:22 PM Well Name: POKER LAKE UNIT 19 DTD	Well Location: T24S / R30E / SEC 19 / NENW / 32.207172 / -103.921614	County or Parish/State: EDBY 7 of 42 NM
Well Number: 310H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM002860	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Conditions of Approval

Additional

Sec19_24S_30E_NMP_Sundry_2781305_Poker_Lake_Unit_19_DTD_310H_COAs_20240404110751.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: TERRA SEBASTIAN

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND

Phone: (432) 999-3107

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

Field

Representative Name: Street Address: City:

Phone:

Email address:

State:

State: TX

Zip:

Signed on: MAR 22, 2024 03:35 PM

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Phone: 5752342234 Disposition: Approved Signature: Chris Walls

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

Disposition Date: 05/09/2024

Received by OCD: 5/9/2024 3:20:22 PM

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5	UNITED STAT DEPARTMENT OF THE JREAU OF LAND MAN	INTERIOR	0	DRM APPROVED MB No. 1004-0137 ires: October 31, 2021
Do not use thi	• •	ORTS ON WELLS to drill or to re-enter an APD) for such proposals	6. If Indian, Allottee of	Tribe Name
SUBMIT	IN TRIPLICATE - Other insti	ructions on page 2	7. If Unit of CA/Agree	ment, Name and/or No.
	as Well Other		8. Well Name and No.	
2. Name of Operator			9. API Well No.	
3a. Address		3b. Phone No. <i>(include area code</i>)	e) 10. Field and Pool or E	Exploratory Area
4. Location of Well (Footage, Sec.,	T.,R.,M., or Survey Description		11. Country or Parish,	State
12. C	HECK THE APPROPRIATE F	30X(ES) TO INDICATE NATURE	OF NOTICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION		TYI	PE OF ACTION	
Notice of Intent	Acidize	Deepen Hydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction Plug and Abandon	Recomplete Temporarily Abandon	Other
Final Abandonment Notice	Convert to Injection	n Plug Back	Water Disposal	
the proposal is to deepen directi the Bond under which the work completion of the involved open	onally or recomplete horizonta will be perfonned or provide that ations. If the operation results	lly, give subsurface locations and m ne Bond No. on file with BLM/BIA in a multiple completion or recomp	heasured and true vertical depths o . Required subsequent reports must letion in a new interval, a Form 31	rk and approximate duration thereof. If f all pertinent markers and zones. Attach st be filed within 30 days following 60-4 must be filed once testing has been he operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)			
	Title		
Signature	Date		
THE SPACE FOR FEDE	ERAL OR STATE	OFICE USE	
Approved by			
	Title	D	late
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lear 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 an any false, fictitious or fraudulent statements or representations as to any matter within		willfully to make to any dep	partment or agency of the United States

(Instructions on page 2)

is ready for final inspection.)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

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

Location of Well

0. SHL: NENW / 1123 FNL / 2441 FWL / TWSP: 24S / RANGE: 30E / SECTION: 19 / LAT: 32.207172 / LONG: -103.921614 (TVD: 0 feet, MD: 0 feet) PPP: SESW / 330 FSL / 2310 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22568 / LONG: -103.92219 (TVD: 11466 feet, MD: 17200 feet) PPP: SESW / 100 FSL / 2310 FEL / TWSP: 24S / RANGE: 30E / SECTION: 18 / LAT: 32.21053 / LONG: -103.922045 (TVD: 11466 feet, MD: 11900 feet) PPP: NENW / 330 FSL / 2310 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.25105 / LONG: -103.92209 (TVD: 11466 feet, MD: 26500 feet) BHL: NESW / 2590 FSL / 2310 FWL / TWSP: 23S / RANGE: 30E / SECTION: 31 / LAT: 32.261077 / LONG: -103.922095 (TVD: 11466 feet, MD: 30206 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 19 DTD 310H
LOCATION:	Sec 19-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

Changes approved through engineering via **Sundry 2781305** on 04/04/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

H_2S	💽 No	C Yes		
Potash / WIPP	• None	C Secretary	🗘 R-111-P	□ WIPP
Cave / Karst	C Low	Medium	🔘 High	Critical
Wellhead	C Conventional	Multibowl	C Both	O Diverter
Cementing	Primary Squeeze	🗹 Cont. Squeeze	EchoMeter	DV Tool
Special Req	Break Testing	Water Disposal	COM	🗹 Unit
Variance	✓ Flex Hose	Casing Clearance	🗖 Pilot Hole	Capitan Reef
Variance	□ Four-String	Offline Cementing	🗖 Fluid-Filled	Open Annulus
	Γ	Batch APD / Sundry		

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The **9-5/8** inch surface casing shall be set at approximately 430 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *Set depth adjusted per BLM geologist.*
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8 hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead

cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **7-5/8** 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.
 - In <u>Medium Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.</u>

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

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

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **300 feet** into previous casing string (tieback increased due to not meeting 0.422" clearance requirement.) Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

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

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

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

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80,

or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of

API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

C. **DRILLING MUD:** Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. **WASTE MATERIAL AND FLUIDS:** All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Received by OCD: 5/9/2024 3:20:22 PM

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

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

District III 1000 Rio B
 District III

 1000 Rio Brazos Road, Aztec, NM 87410

 Phone: (505) 334-6178 Fax: (505) 334-6170
 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

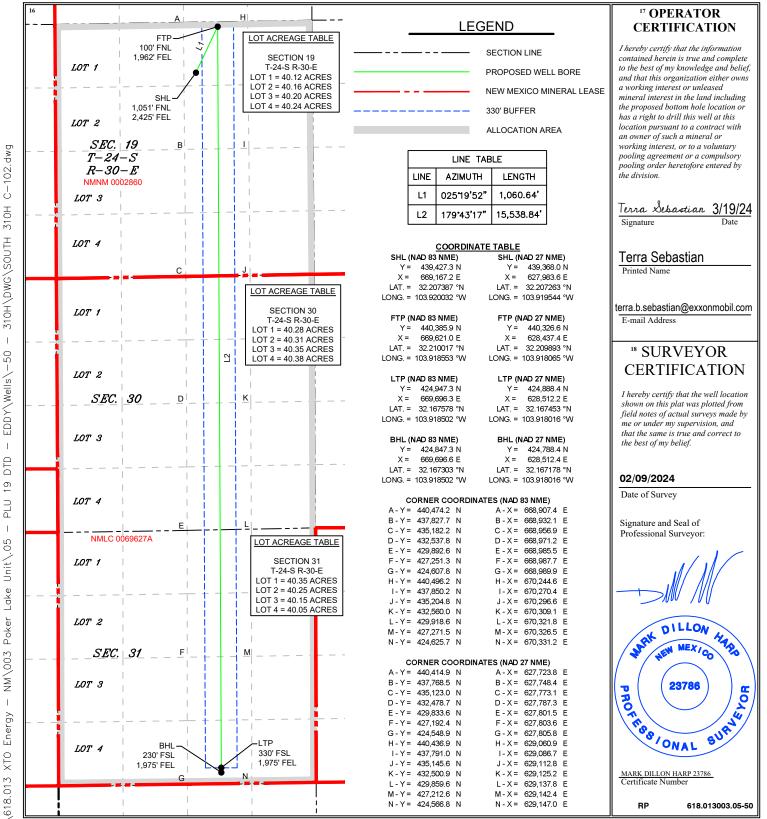
> OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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



WELL LOCATION AND ACREAGE DEDICATION PLAT ¹API Number Pool Code 98220 Purple Sage Wolfcamp 30-015-53826 Property Code **Property Name** Well Number POKER LAKE UNIT 19 DTD 333976 310H OGRID No Elevation **XTO PERMIAN OPERATING, LLC** 373075 3,177 ¹⁰ Surface Location UL or lot no. East/West lin Section Township Rang Lot Idi Feet from the North/South lin Feet from th County 24S 30E NORTH 2,425 EAST EDDY В 19 1.051 "Bottom Hole Location If Different From Surface UL or lot no. Section East/West line Feet from the County Township Rang Lot Idn Feet from the North/South line 0 31 24S 30E 230 SOUTH 1,975 EAST EDDY Joint or Infill Dedicated Acres **Consolidation** Code Order No. 1,922.84

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.



Page 13 of 42

Intent As Drilled		
API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

Is this well the defining well for the Horizontal Spacing Unit?	

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc. PLU 19 Dog Town Draw 310H Projected TD: 26120.76' MD / 10780' TVD SHL: 1051' FNL & 2425' FEL , Section 19, T24S, R30E BHL: 230' FSL & 1975' FEL , Section 31, T24S, R30E Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	646'	Water
Top of Salt	1049'	Water
Base of Salt	3242'	Water
Delaware	3436'	Water
Brushy Canyon	5934'	Water/Oil/Gas
Bone Spring	7230'	Water
Avalon	7400'	Water/Oil/Gas
1st Bone Spring	8216'	Water/Oil/Gas
2nd Bone Spring	9034'	Water/Oil/Gas
3rd Bone Spring	10128'	Water/Oil/Gas
Wolfcamp	10519'	Water/Oil/Gas
Wolfcamp X	10540'	Water/Oil/Gas
Wolfcamp Y	10618'	Water/Oil/Gas
Wolfcamp A	10660'	Water/Oil/Gas
Target/Land Curve	10780'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 746' (303' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9971.25' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 26120.76 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9671.25 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 746'	9.625	40	J-55	BTC	New	1.67	8.44	21.11
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.32	2.92	1.88
8.75	4000' – 9971.25'	7.625	29.7	HC L-80	Flush Joint	New	1.69	2.40	2.29
6.75	0' – 9871.25'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.88	1.94
6.75	9871.25' - 26120.76'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.72	1.94

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

surface casing per this Sundry

 \cdot XTO requests to not utilize centralizers in the curve and lateral

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

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

 \cdot Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

 \cdot XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

- ... <u>Permanent Wellhead Multibowl System</u> A. Starting Head: 11" 10M top flange x 9-5/8" bottom B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange
 - \cdot Wellhead will be installed by manufacturer's representatives.
 - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 Operator will test the 7-5/8" casing per BLM Onshore Order 2

 - · Wellhead Manufacturer representative will not be present for BOP test plug installation

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 746'

Lead: 140 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water) Top of Cement: Surface Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9971.25'1st StageOptional Lead: 320 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)TOC: SurfaceTail: 370 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)TOC: Brushy Canyon @ 5934Compressives:12-hr =900 psi24 hr = 1150 psi

 2nd Stage

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

 Tail: 670 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

 Top of Cement: 0

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

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (5934') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 26120.76'

Lead: 20 sxs NeoCem (n	nixed at 11.5	opg, 2.69 ft3/sx, ⁻	15.00 gal/sx water) Top of Cement:	9671.25 feet
Tail: 1140 sxs VersaCem	n (mixed at 13	.2 ppg, 1.51 ft3/s	x, 8.38 gal/sx water) Top of Cement:	10171.25 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 9.625 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 4075 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 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 7.625, 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 day.

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size		MW	Viscosity	Fluid Loss
INTERVAL		Mud Type	(ppg)	(sec/qt)	(cc)
0' - 746'	12.25	FW/Native	8.4-8.9	35-40	NC
746' - 9971.25'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
9971.25' - 26120.76'	6.75	OBM	11.5-12	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 9.625 casing.

8. Logging, Coring and Testing Program

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 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 6446 psi.

10. Anticipated Starting Date and Duration of Operations

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

Well Plan Report - Poker Lake Unit 19 DTD South 310H

Measured Depth:	26120.76 ft
TVD RKB:	10780.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439368.00 ft
Easting:	627983.60 ft
RKB:	3209.00 ft
Ground Level:	3177.00 ft
North Reference:	Grid
Convergence Angle:	0.22 Deg

Plan Sections	Po	oker Lake Unit 19	DTD South 310H	4				
Measured			TVD			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
1700.61	12.01	25.26	1696.22	56.73	26.77	2.00	0.00	2.00
6206.84	12.01	25.26	6103.78	904.87	427.03	0.00	0.00	0.00
6807.45	0.00	0.00	6700.00	961.60	453.80	-2.00	0.00	2.00
10171.25	0.00	0.00	10063.80	961.60	453.80	0.00	0.00	0.00
11296.25	90.00	179.72	10780.00	245.41	457.27	8.00	0.00	8.00
11815.22	90.00	179.72	10780.00	-273.55	459.79	0.00	0.00	0.00 LTP 18
26120.76	90.00	179.72	10780.00	-14578.92	529.20	0.00	0.00	0.00 BHL 18

Position	Uncertainty
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Measured

Poker Lake Unit 19 DTD South 310H

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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	2.441	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	2.483	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	2.528	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	2.577	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	2.630	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	25.264	1199.980	5.245	0.000	4.275	0.000	2.686	0.000	0.000	5.303	4.205	129.071	MWD+IFR1+MS
1300.000	4.000	25.264	1299.838	6.002	0.000	4.661	0.000	2.746	0.000	0.000	6.088	4.560	129.055	MWD+IFR1+MS
1400.000	6.000	25.264	1399.452	6.686	0.000	5.041	0.000	2.811	0.000	0.000	6.799	4.915	129.039	MWD+IFR1+MS
1500.000	8.000	25.264	1498.702	7.316	0.000	5.417	0.000	2.883	0.000	0.000	7.458	5.270	129.028	MWD+IFR1+MS
1600.000	10.000	25.264	1597.465	7.903	0.000	5.791	0.000	2.966	0.000	0.000	8.075	5.625	129.022	MWD+IFR1+MS
1700.613	12.012	25.264	1696.223	8.463	0.000	6.167	0.000	3.061	0.000	0.000	8.668	5.983	129.026	MWD+IFR1+MS
1800.000	12.012	25.264	1793.433	8.843	0.000	6.537	0.000	3.146	0.000	0.000	9.049	6.344	129.414	MWD+IFR1+MS
1900.000	12.012	25.264	1891.244	9.129	0.000	6.910	0.000	3.227	0.000	0.000	9.331	6.718	129.732	MWD+IFR1+MS
2000.000	12.012	25.264	1989.054	9.421	0.000	7.284	0.000	3.312	0.000	0.000	9.621	7.092	130.046	MWD+IFR1+MS
2100.000	12.012	25.264	2086.864	9.721	0.000	7.658	0.000	3.400	0.000	0.000	9.916	7.467	130.351	MWD+IFR1+MS
2200.000	12.012	25.264	2184.675	10.027	0.000	8.032	0.000	3.490	0.000	0.000	10.218	7.842	130.649	MWD+IFR1+MS
2300.000	12.012	25.264	2282.485	10.338	0.000	8.407	0.000	3.584	0.000	0.000	10.524	8.217	130.940	MWD+IFR1+MS
2400.000	12.012	25.264	2380.295	10.654	0.000	8.782	0.000	3.680	0.000	0.000	10.835	8.592	131.223	MWD+IFR1+MS
2500.000	12.012	25.264	2478.106	10.974	0.000	9.157	0.000	3.778	0.000	0.000	11.151	8.968	131.498	MWD+IFR1+MS
2600.000	12.012	25.264	2575.916	11.299	0.000	9.532	0.000	3.878	0.000	0.000	11.470	9.343	131.767	MWD+IFR1+MS
2700.000	12.012	25.264	2673.726	11.628	0.000	9.908	0.000	3.981	0.000	0.000	11.793	9.719	132.028	MWD+IFR1+MS
2800.000	12.012	25.264	2771.537	11.960	0.000	10.284	0.000	4.086	0.000	0.000	12.119	10.095	132.281	MWD+IFR1+MS
2900.000	12.012	25.264	2869.347	12.296	0.000	10.660	0.000	4.192	0.000	0.000	12.449	10.471	132.528	MWD+IFR1+MS
3000.000	12.012	25.264	2967.157	12.634	0.000	11.036	0.000	4.301	0.000	0.000	12.781	10.847	132.768	MWD+IFR1+MS

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3100.000	12.012	25.264	3064.967	12.976 0.000	11.412	0.000	4.411 0.000	0.000	13.116	11.223	133.002 MWD+IFR1+MS
3200.000	12.012	25.264	3162.778	13.319 0.000	11.788	0.000	4.523 0.000	0.000	13.453	11.599	133.228 MWD+IFR1+MS
3300.000	12.012	25.264	3260.588	13.666 0.000	12.165	0.000	4.637 0.000	0.000	13.793	11.976	133.448 MWD+IFR1+MS
3400.000	12.012	25.264	3358.398	14.014 0.000	12.541	0.000	4.752 0.000	0.000	14.134	12.352	133.662 MWD+IFR1+MS
3500.000	12.012	25.264	3456.209	14.364 0.000	12.918	0.000	4.869 0.000	0.000	14.478	12.729	133.869 MWD+IFR1+MS
3600.000	12.012	25.264	3554.019	14.717 0.000	13.294	0.000	4.988 0.000	0.000	14.823	13.105	134.070 MWD+IFR1+MS
3700.000	12.012	25.264	3651.829	15.071 0.000	13.671	0.000	5.108 0.000	0.000	15.170	13.482	134.265 MWD+IFR1+MS
3800.000	12.012	25.264	3749.640	15.426 0.000	14.048	0.000	5.230 0.000	0.000	15.519	13.859	134.453 MWD+IFR1+MS
3900.000	12.012	25.264	3847.450	15.783 0.000	14.424	0.000	5.354 0.000	0.000	15.869	14.236	134.636 MWD+IFR1+MS
4000.000	12.012	25.264	3945.260	16.142 0.000	14.801	0.000	5.479 0.000	0.000	16.220	14.613	134.813 MWD+IFR1+MS
4100.000	12.012	25.264	4043.070	16.502 0.000	15.178	0.000	5.606 0.000	0.000	16.572	14.990	134.984 MWD+IFR1+MS
4200.000	12.012	25.264	4140.881	16.863 0.000	15.555	0.000	5.734 0.000	0.000	16.926	15.367	-44.851 MWD+IFR1+MS
4300.000	12.012	25.264	4238.691	17.225 0.000	15.932	0.000	5.864 0.000	0.000	17.281	15.744	-44.691 MWD+IFR1+MS
4400.000	12.012	25.264	4336.501	17.588 0.000	16.309	0.000	5.996 0.000	0.000	17.637	16.121	-44.536 MWD+IFR1+MS
4500.000	12.012	25.264	4434.312	17.953 0.000	16.686	0.000	6.129 0.000	0.000	17.994	16.498	-44.387 MWD+IFR1+MS
4600.000	12.012	25.264	4532.122	18.318 0.000	17.063	0.000	6.264 0.000	0.000	18.352	16.875	-44.243 MWD+IFR1+MS
4700.000	12.012	25.264	4629.932	18.684 0.000	17.440	0.000	6.400 0.000	0.000	18.710	17.253	-44.105 MWD+IFR1+MS
4800.000	12.012	25.264	4727.743	19.051 0.000	17.817	0.000	6.538 0.000	0.000	19.070	17.630	-43.972 MWD+IFR1+MS
4900.000	12.012	25.264	4825.553	19.419 0.000	18.195	0.000	6.678 0.000	0.000	19.430	18.007	-43.843 MWD+IFR1+MS
5000.000	12.012	25.264	4923.363	19.788 0.000	18.572	0.000	6.819 0.000	0.000	19.791	18.385	-43.720 MWD+IFR1+MS
5100.000	12.012	25.264	5021.174	20.157 0.000	18.949	0.000	6.962 0.000	0.000	20.153	18.762	-43.601 MWD+IFR1+MS
5200.000	12.012	25.264	5118.984	20.527 0.000	19.326	0.000	7.107 0.000	0.000	20.515	19.140	-43.487 MWD+IFR1+MS
5300.000	12.012	25.264	5216.794	20.898 0.000	19.703	0.000	7.254 0.000	0.000	20.878	19.518	-43.378 MWD+IFR1+MS
5400.000	12.012	25.264	5314.604	21.269 0.000	20.081	0.000	7.402 0.000	0.000	21.242	19.895	-43.274 MWD+IFR1+MS
5500.000	12.012	25.264	5412.415	21.641 0.000	20.458	0.000	7.553 0.000	0.000	21.606	20.273	-43.174 MWD+IFR1+MS
5600.000	12.012	25.264	5510.225	22.013 0.000	20.835	0.000	7.705 0.000	0.000	21.971	20.651	-43.079 MWD+IFR1+MS
5700.000	12.012	25.264	5608.035	22.386 0.000	21.213		7.858 0.000	0.000	22.336	21.028	-42.989 MWD+IFR1+MS
5800.000	12.012	25.264	5705.846	22.760 0.000	21.590	0.000	8.014 0.000	0.000	22.702	21.406	-42.902 MWD+IFR1+MS
5900.000	12.012	25.264	5803.656	23.134 0.000	21.967	0.000	8.172 0.000	0.000	23.068	21.784	-42.820 MWD+IFR1+MS
6000.000	12.012	25.264	5901.466	23.508 0.000	22.345	0.000	8.331 0.000	0.000	23.435	22.162	-42.743 MWD+IFR1+MS
6100.000	12.012	25.264	5999.277	23.883 0.000	22.722		8.493 0.000	0.000	23.802	22.540	-42.669 MWD+IFR1+MS
6206.840	12.012	25.264	6103.777	24.285 0.000	23.127	0.000	8.667 0.000	0.000	24.196	22.944	-42.557 MWD+IFR1+MS
6300.000	10.149	25.264	6195.196	24.681 0.000	23.475	0.000	8.823 0.000	0.000	24.566	23.291	-42.672 MWD+IFR1+MS

Regeived by GGD:	<i>5/9/2024 3</i> .	:20:22 PM	r				We	ell Plan Ro	eport				Page 24 of 42
6400.000	8.149	25.264	6293.919	25.138 0.000	23.845	0.000	8.992	0.000	0.000	25.018	23.661	-43.411	MWD+IFR1+MS
6500.000	6.149	25.264	6393.137	25.563 0.000	24.208	0.000	9.155	0.000	0.000	25.471	24.024	-44.081	MWD+IFR1+MS
6600.000	4.149	25.264	6492.728	25.951 0.000	24.566	0.000	9.311	0.000	0.000	25.916	24.380	-44.650	MWD+IFR1+MS
6700.000	2.149	25.264	6592.572	26.300 0.000	24.917	0.000	9.462	0.000	0.000	26.353	24.729	134.870	MWD+IFR1+MS
6807.453	0.000	0.000	6700.000	26.019 0.000	25.929	0.000	9.620	0.000	0.000	26.812	25.108	133.474	MWD+IFR1+MS
6900.000	0.000	0.000	6792.547	26.359 0.000	26.234	0.000	9.756	0.000	0.000	27.139	25.427	132.902	MWD+IFR1+MS
7000.000	0.000	0.000	6892.547	26.692 0.000	26.565	0.000	9.905	0.000	0.000	27.465	25.765	132.852	MWD+IFR1+MS
7100.000	0.000	0.000	6992.547	27.026 0.000	26.897	0.000	10.057	0.000	0.000	27.793	26.104	132.804	MWD+IFR1+MS
7200.000	0.000	0.000	7092.547	27.361 0.000	27.230	0.000	10.212	0.000	0.000	28.122	26.443	132.757	MWD+IFR1+MS
7300.000	0.000	0.000	7192.547	27.696 0.000	27.563	0.000	10.370	0.000	0.000	28.452	26.783	132.711	MWD+IFR1+MS
7400.000	0.000	0.000	7292.547	28.032 0.000	27.897	0.000	10.531	0.000	0.000	28.782	27.123	132.665	MWD+IFR1+MS
7500.000	0.000	0.000	7392.547	28.368 0.000	28.232	0.000	10.695	0.000	0.000	29.113	27.463	132.619	MWD+IFR1+MS
7600.000	0.000	0.000	7492.547	28.705 0.000	28.567	0.000	10.861	0.000	0.000	29.444	27.805	132.574	MWD+IFR1+MS
7700.000	0.000	0.000	7592.547	29.043 0.000	28.902	0.000	11.031	0.000	0.000	29.776	28.146	132.530	MWD+IFR1+MS
7800.000	0.000	0.000	7692.547	29.381 0.000	29.239	0.000	11.203	0.000	0.000	30.109	28.488	132.486	MWD+IFR1+MS
7900.000	0.000	0.000	7792.547	29.719 0.000	29.575	0.000	11.378	0.000	0.000	30.442	28.830	132.443	MWD+IFR1+MS
8000.000	0.000	0.000	7892.547	30.058 0.000	29.913	0.000	11.557	0.000	0.000	30.776	29.173	132.400	MWD+IFR1+MS
8100.000	0.000	0.000	7992.547	30.397 0.000	30.251	0.000	11.738	0.000	0.000	31.111	29.516	132.357	MWD+IFR1+MS
8200.000	0.000	0.000	8092.547	30.737 0.000	30.589	0.000	11.923	0.000	0.000	31.446	29.860	132.316	MWD+IFR1+MS
8300.000	0.000	0.000	8192.547	31.077 0.000	30.927	0.000	12.110	0.000	0.000	31.781	30.203	132.274	MWD+IFR1+MS
8400.000	0.000	0.000	8292.547	31.418 0.000	31.267	0.000	12.301	0.000	0.000	32.117	30.548	132.233	MWD+IFR1+MS
8500.000	0.000	0.000	8392.547	31.759 0.000	31.606	0.000	12.494	0.000	0.000	32.454	30.892	132.193	MWD+IFR1+MS
8600.000	0.000	0.000	8492.547	32.100 0.000	31.946	0.000	12.691	0.000	0.000	32.791	31.237	132.153	MWD+IFR1+MS
8700.000	0.000	0.000	8592.547	32.442 0.000	32.286	0.000	12.891	0.000	0.000	33.128	31.582	132.113	MWD+IFR1+MS
8800.000	0.000	0.000	8692.547	32.784 0.000	32.627	0.000	13.093	0.000	0.000	33.466	31.927	132.074	MWD+IFR1+MS
8900.000	0.000	0.000	8792.547	33.127 0.000	32.968	0.000	13.299	0.000	0.000	33.804	32.273	132.036	MWD+IFR1+MS
9000.000	0.000	0.000	8892.547	33.469 0.000	33.310	0.000	13.508	0.000	0.000	34.143	32.619	131.997	MWD+IFR1+MS
9100.000	0.000	0.000	8992.547	33.812 0.000	33.652	0.000	13.720	0.000	0.000	34.482	32.965	131.960	MWD+IFR1+MS
9200.000	0.000	0.000	9092.547	34.156 0.000	33.994	0.000	13.935	0.000	0.000	34.822	33.312	131.922	MWD+IFR1+MS
9300.000	0.000	0.000	9192.547	34.500 0.000	34.336	0.000	14.154	0.000	0.000	35.161	33.658	131.885	MWD+IFR1+MS
9400.000	0.000	0.000	9292.547	34.844 0.000	34.679	0.000	14.375	0.000	0.000	35.502	34.005	131.849	MWD+IFR1+MS
9500.000	0.000	0.000	9392.547	35.188 0.000	35.022	0.000	14.599	0.000	0.000	35.842	34.353	131.813	MWD+IFR1+MS
9600.000	0.000	0.000	9492.547	35.532 0.000	35.366	0.000	14.827	0.000	0.000	36.183	34.700	131.777	MWD+IFR1+MS

Regeived by QGD	: 5/9/2024 3	2:20:22 PN	1			Well Plan Re	port			Page 25 of 42
9700.000	0.000	0.000	9592.547	35.877 0.000	35.710 0.000	15.058 0.000	0.000	36.524	35.048	131.741 MWD+IFR1+MS
9800.000	0.000	0.000	9692.547	36.222 0.000	36.054 0.000	15.292 0.000	0.000	36.866	35.395	131.706 MWD+IFR1+MS
9900.000	0.000	0.000	9792.547	36.568 0.000	36.398 0.000	15.529 0.000	0.000	37.208	35.744	131.672 MWD+IFR1+MS
10000.000	0.000	0.000	9892.547	36.913 0.000	36.743 0.000	15.769 0.000	0.000	37.550	36.092	131.637 MWD+IFR1+MS
10100.000	0.000	0.000	9992.547	37.259 0.000	37.088 0.000	16.012 0.000	0.000	37.893	36.440	131.603 MWD+IFR1+MS
10171.253	0.000	0.000	10063.800	37.504 0.000	37.332 0.000	16.187 0.000	0.000	38.134	36.689	131.572 MWD+IFR1+MS
10200.000	2.300	179.722	10092.539	37.437 0.000	37.432 -0.000	16.258 0.000	0.000	38.225	36.784	131.550 MWD+IFR1+MS
10300.000	10.300	179.722	10191.855	37.292 0.000	37.731 -0.000	16.520 0.000	0.000	38.821	37.234	123.477 MWD+IFR1+MS
10400.000	18.300	179.722	10288.678	37.244 0.000	38.011 -0.000	16.901 0.000	0.000	39.940	37.685	111.774 MWD+IFR1+MS
10500.000	26.300	179.722	10381.124	36.666 0.000	38.266 -0.000	17.468 0.000	0.000	41.002	38.005	106.579 MWD+IFR1+MS
10600.000	34.300	179.722	10467.393	35.638 0.000	38.493 -0.000	18.269 0.000	0.000	41.920	38.260	104.017 MWD+IFR1+MS
10700.000	42.300	179.722	10545.807	34.270 0.000	38.691 -0.000	19.320 0.000	0.000	42.665	38.469	102.675 MWD+IFR1+MS
10800.000	50.300	179.722	10614.840	32.703 0.000	38.859 -0.000	20.607 0.000	0.000	43.232	38.639	102.004 MWD+IFR1+MS
10900.000	58.300	179.722	10673.147	31.117 0.000	38.996 -0.000	22.091 0.000	0.000	43.631	38.772	101.750 MWD+IFR1+MS
11000.000	66.300	179.722	10719.594	29.724 0.000	39.102 -0.000	23.718 0.000	0.000	43.882	38.870	101.777 MWD+IFR1+MS
11100.000	74.300	179.722	10753.276	28.754 0.000	39.179 -0.000	25.429 0.000	0.000	44.016	38.936	101.985 MWD+IFR1+MS
11200.000	82.300	179.722	10773.539	28.412 0.000	39.225 -0.000	27.163 0.000	0.000	44.068	38.969	102.278 MWD+IFR1+MS
11296.253	90.000	179.722	10779.997	28.697 0.000	39.241 -0.000	28.697 0.000	0.000	44.083	38.974	102.537 MWD+IFR1+MS
11300.000	90.000	179.722	10779.997	28.703 0.000	39.241 -0.000	28.703 0.000	0.000	44.084	38.973	102.544 MWD+IFR1+MS
11400.000	90.000	179.722	10779.997	28.882 0.000	39.248 -0.000	28.882 0.000	0.000	44.094	38.970	102.777 MWD+IFR1+MS
11500.000	90.000	179.722	10779.997	29.086 0.000	39.273 -0.000	29.086 0.000	0.000	44.107	38.984	103.051 MWD+IFR1+MS
11600.000	90.000	179.722	10779.997	29.309 0.000	39.313 -0.000	29.309 0.000	0.000	44.121	39.012	103.359 MWD+IFR1+MS
11700.000	90.000	179.722	10779.997	29.552 0.000	39.368 -0.000	29.552 0.000	0.000	44.136	39.054	103.704 MWD+IFR1+MS
11800.000	90.000	179.722	10779.997	29.813 0.000	39.438 -0.000	29.813 0.000	0.000	44.153	39.109	104.088 MWD+IFR1+MS
11815.220	90.000	179.722	10779.997	29.853 0.000	39.449 -0.000	29.853 0.000	0.000	44.156	39.117	104.148 MWD+IFR1+MS
11900.000	90.000	179.722	10779.997	30.087 0.000	39.518 -0.000	30.087 0.000	0.000	44.172	39.173	104.504 MWD+IFR1+MS
12000.000	90.000	179.722	10779.997	30.383 0.000	39.616 -0.000	30.383 0.000	0.000	44.193	39.255	104.976 MWD+IFR1+MS
12100.000	90.000	179.722	10779.997	30.698 0.000	39.730 -0.000	30.698 0.000	0.000	44.216	39.350	105.502 MWD+IFR1+MS
12200.000	90.000	179.722	10779.997	31.029 0.000	39.858 -0.000	31.029 0.000	0.000	44.242	39.457	106.086 MWD+IFR1+MS
12300.000	90.000	179.722	10779.997	31.376 0.000	40.000 -0.000	31.376 0.000	0.000	44.270	39.577	106.733 MWD+IFR1+MS
12400.000	90.000		10779.997	31.738 0.000	40.157 -0.000	31.738 0.000	0.000	44.301	39.709	107.451 MWD+IFR1+MS
12500.000	90.000		10779.997	32.116 0.000	40.327 -0.000	32.116 0.000	0.000	44.335	39.852	108.249 MWD+IFR1+MS
12600.000	90.000	179.722	10779.997	32.509 0.000	40.511 -0.000	32.509 0.000	0.000	44.373	40.006	109.137 MWD+IFR1+MS

Regeived by QCD:	5/9/2024 3	8:20:22 PN	1			Well Plan Re	eport			Page 26 of 42
12700.000	90.000	179.722	10779.997	32.915 0.00	0 40.709 -0.000	0 32.915 0.000	0.000	44.415	40.169	110.126 MWD+IFR1+MS
12800.000	90.000	179.722	10779.997	33.335 0.00	0 40.920 -0.000	0 33.335 0.000	0.000	44.462	40.342	111.230 MWD+IFR1+MS
12900.000	90.000	179.722	10779.997	33.768 0.00	0 41.144 -0.000	0 33.768 0.000	0.000	44.514	40.523	112.462 MWD+IFR1+MS
13000.000	90.000	179.722	10779.997	34.213 0.00	0 41.381 -0.000	0 34.213 0.000	0.000	44.573	40.711	113.839 MWD+IFR1+MS
13100.000	90.000	179.722	10779.997	34.671 0.00	0 41.631 -0.000	0 34.671 0.000	0.000	44.639	40.906	115.377 MWD+IFR1+MS
13200.000	90.000	179.722	10779.997	35.140 0.00	0 41.893 -0.000	0 35.140 0.000	0.000	44.714	41.104	117.094 MWD+IFR1+MS
13300.000	90.000	179.722	10779.997	35.620 0.00	0 42.168 -0.000	35.620 0.000	0.000	44.799	41.306	119.004 MWD+IFR1+MS
13400.000	90.000	179.722	10779.997	36.111 0.00	0 42.455 -0.000	36.111 0.000	0.000	44.895	41.509	121.121 MWD+IFR1+MS
13500.000	90.000	179.722	10779.997	36.612 0.00	0 42.753 -0.000	36.612 0.000	0.000	45.005	41.710	123.450 MWD+IFR1+MS
13600.000	90.000	179.722	10779.997	37.123 0.00	0 43.063 -0.000	0 37.123 0.000	0.000	45.130	41.908	125.985 MWD+IFR1+MS
13700.000	90.000	179.722	10779.997	37.643 0.00	0 43.384 -0.000	0 37.643 0.000	0.000	45.274	42.101	128.709 MWD+IFR1+MS
13800.000	90.000	179.722	10779.997	38.173 0.00	0 43.717 -0.000	0 38.173 0.000	0.000	45.436	42.285	131.587 MWD+IFR1+MS
13900.000	90.000	179.722	10779.997	38.711 0.00	0 44.060 -0.000	0 38.711 0.000	0.000	45.621	42.459	134.567 MWD+IFR1+MS
14000.000	90.000	179.722	10779.997	39.257 0.00	0 44.413 -0.000	0 39.257 0.000	0.000	45.827	42.622	-42.413 MWD+IFR1+MS
14100.000	90.000	179.722	10779.997	39.811 0.00	0 44.777 -0.000	0 39.811 0.000	0.000	46.058	42.772	-39.422 MWD+IFR1+MS
14200.000	90.000	179.722	10779.997	40.373 0.00	0 45.151 -0.000	0 40.373 0.000	0.000	46.311	42.910	-36.524 MWD+IFR1+MS
14300.000	90.000	179.722	10779.997	40.943 0.00	0 45.535 -0.000	0 40.943 0.000	0.000	46.587	43.035	-33.772 MWD+IFR1+MS
14400.000	90.000	179.722	10779.997	41.519 0.00	0 45.928 -0.000	0 41.519 0.000	0.000	46.886	43.149	-31.203 MWD+IFR1+MS
14500.000	90.000	179.722	10779.997	42.102 0.00	0 46.331 -0.000	0 42.102 0.000	0.000	47.205	43.251	-28.837 MWD+IFR1+MS
14600.000	90.000	179.722	10779.997	42.692 0.00	0 46.743 -0.000	42.692 0.000	0.000	47.543	43.344	-26.680 MWD+IFR1+MS
14700.000	90.000	179.722	10779.997	43.287 0.00	0 47.163 -0.000	43.287 0.000	0.000	47.899	43.429	-24.728 MWD+IFR1+MS
14800.000	90.000	179.722	10779.997	43.889 0.00	0 47.592 -0.000	43.889 0.000	0.000	48.271	43.507	-22.970 MWD+IFR1+MS
14900.000	90.000	179.722	10779.997	44.497 0.00	0 48.030 -0.000	0 44.497 0.000	0.000	48.659	43.578	-21.390 MWD+IFR1+MS
15000.000	90.000	179.722	10779.997	45.109 0.00	0 48.476 -0.000	0 45.109 0.000	0.000	49.060	43.645	-19.970 MWD+IFR1+MS
15100.000	90.000	179.722	10779.997	45.728 0.00	0 48.929 -0.000	0 45.728 0.000	0.000	49.474	43.707	-18.695 MWD+IFR1+MS
15200.000	90.000	179.722	10779.997	46.351 0.00	0 49.390 -0.000	0 46.351 0.000	0.000	49.901	43.765	-17.548 MWD+IFR1+MS
15300.000	90.000	179.722	10779.997	46.979 0.00	0 49.859 -0.000	0 46.979 0.000	0.000	50.338	43.820	-16.513 MWD+IFR1+MS
15400.000	90.000	179.722	10779.997	47.611 0.00	0 50.335 -0.000	0 47.611 0.000	0.000	50.786	43.873	-15.578 MWD+IFR1+MS
15500.000	90.000	179.722	10779.997	48.249 0.00	0 50.818 -0.000	0 48.249 0.000	0.000	51.244	43.923	-14.732 MWD+IFR1+MS
15600.000	90.000	179.722	10779.997	48.890 0.00	0 51.308 -0.000	0 48.890 0.000	0.000	51.711	43.971	-13.962 MWD+IFR1+MS
15700.000	90.000	179.722	10779.997	49.536 0.00	0 51.805 -0.000	0 49.536 0.000	0.000	52.186	44.018	-13.261 MWD+IFR1+MS
15800.000	90.000	179.722	10779.997	50.185 0.00	0 52.308 -0.000	0 50.185 0.000	0.000	52.671	44.064	-12.621 MWD+IFR1+MS
15900.000	90.000	179.722	10779.997	50.838 0.00	0 52.818 -0.000	0 50.838 0.000	0.000	53.163	44.109	-12.035 MWD+IFR1+MS

Regeived by AGA:	5/9/2024 3	:20:22 PN	1					We	ell Plan Re	eport				Page 27 of 42
16000.000	90.000	179.722	10779.997	51.495	0.000	53.333	-0.000	51.495	0.000	0.000	53.662	44.153	-11.496	MWD+IFR1+MS
16100.000	90.000	179.722	10779.997	52.156	0.000	53.855	-0.000	52.156	0.000	0.000	54.169	44.196	-11.000	MWD+IFR1+MS
16200.000	90.000	179.722	10779.997	52.820	0.000	54.382	-0.000	52.820	0.000	0.000	54.683	44.239	-10.542	MWD+IFR1+MS
16300.000	90.000	179.722	10779.997	53.487	0.000	54.915	-0.000	53.487	0.000	0.000	55.203	44.281	-10.118	MWD+IFR1+MS
16400.000	90.000	179.722	10779.997	54.158	0.000	55.453	-0.000	54.158	0.000	0.000	55.730	44.323	-9.725	MWD+IFR1+MS
16500.000	90.000	179.722	10779.997	54.831	0.000	55.997	-0.000	54.831	0.000	0.000	56.263	44.364	-9.359	MWD+IFR1+MS
16600.000	90.000	179.722	10779.997	55.507	0.000	56.546	-0.000	55.507	0.000	0.000	56.801	44.406	-9.019	MWD+IFR1+MS
16700.000	90.000	179.722	10779.997	56.186	0.000	57.099	-0.000	56.186	0.000	0.000	57.346	44.447	-8.701	MWD+IFR1+MS
16800.000	90.000	179.722	10779.997	56.868	0.000	57.658	-0.000	56.868	0.000	0.000	57.895	44.488	-8.404	MWD+IFR1+MS
16900.000	90.000	179.722	10779.997	57.553	0.000	58.221	-0.000	57.553	0.000	0.000	58.450	44.530	-8.125	MWD+IFR1+MS
17000.000	90.000	179.722	10779.997	58.240	0.000	58.789	-0.000	58.240	0.000	0.000	59.011	44.571	-7.864	MWD+IFR1+MS
17100.000	90.000	179.722	10779.997	58.929	0.000	59.362	-0.000	58.929	0.000	0.000	59.576	44.613	-7.618	MWD+IFR1+MS
17200.000	90.000	179.722	10779.997	59.621	0.000	59.938	-0.000	59.621	0.000	0.000	60.145	44.654	-7.387	MWD+IFR1+MS
17300.000	90.000	179.722	10779.997	60.315	0.000	60.519	-0.000	60.315	0.000	0.000	60.720	44.696	-7.169	MWD+IFR1+MS
17400.000	90.000	179.722	10779.997	61.012	0.000	61.104	-0.000	61.012	0.000	0.000	61.298	44.738	-6.963	MWD+IFR1+MS
17500.000	90.000	179.722	10779.997	61.710	0.000	61.693	-0.000	61.710	0.000	0.000	61.881	44.780	-6.768	MWD+IFR1+MS
17600.000	90.000	179.722	10779.997	62.411	0.000	62.286	-0.000	62.411	0.000	0.000	62.469	44.823	-6.583	MWD+IFR1+MS
17700.000	90.000	179.722	10779.997	63.113	0.000	62.882	-0.000	63.113	0.000	0.000	63.060	44.866	-6.408	MWD+IFR1+MS
17800.000	90.000	179.722	10779.997	63.817	0.000	63.482	-0.000	63.817	0.000	0.000	63.655	44.909	-6.242	MWD+IFR1+MS
17900.000	90.000	179.722	10779.997	64.524	0.000	64.086	-0.000	64.524	0.000	0.000	64.254	44.952	-6.084	MWD+IFR1+MS
18000.000	90.000	179.722	10779.997	65.232	0.000	64.693	-0.000	65.232	0.000	0.000	64.856	44.996	-5.933	MWD+IFR1+MS
18100.000	90.000	179.722	10779.997	65.941	0.000	65.303	-0.000	65.941	0.000	0.000	65.462	45.040	-5.790	MWD+IFR1+MS
18200.000	90.000	179.722	10779.997	66.653	0.000	65.917	-0.000	66.653	0.000	0.000	66.072	45.084	-5.654	MWD+IFR1+MS
18300.000	90.000	179.722	10779.997	67.366	0.000	66.533	-0.000	67.366	0.000	0.000	66.684	45.129	-5.523	MWD+IFR1+MS
18400.000	90.000	179.722	10779.997	68.081	0.000	67.153	-0.000	68.081	0.000	0.000	67.301	45.174	-5.399	MWD+IFR1+MS
18500.000	90.000	179.722	10779.997	68.797	0.000	67.776	-0.000	68.797	0.000	0.000	67.920	45.219	-5.280	MWD+IFR1+MS
18600.000	90.000	179.722	10779.997	69.514	0.000	68.402	-0.000	69.514	0.000	0.000	68.542	45.265	-5.166	MWD+IFR1+MS
18700.000	90.000	179.722	10779.997	70.234	0.000	69.030	-0.000	70.234	0.000	0.000	69.167	45.311	-5.056	MWD+IFR1+MS
18800.000	90.000	179.722	10779.997	70.954	0.000	69.661	-0.000	70.954	0.000	0.000	69.795	45.358	-4.952	MWD+IFR1+MS
18900.000	90.000	179.722	10779.997	71.676	0.000	70.295	-0.000	71.676	0.000	0.000	70.426	45.405	-4.851	MWD+IFR1+MS
19000.000	90.000	179.722	10779.997	72.399	0.000	70.932	-0.000	72.399	0.000	0.000	71.060	45.453	-4.755	MWD+IFR1+MS
19100.000	90.000	179.722	10779.997	73.123	0.000	71.571	-0.000	73.123	0.000	0.000	71.696	45.500	-4.662	MWD+IFR1+MS
19200.000	90.000	179.722	10779.997	73.849	0.000	72.212	-0.000	73.849	0.000	0.000	72.335	45.549	-4.573	MWD+IFR1+MS

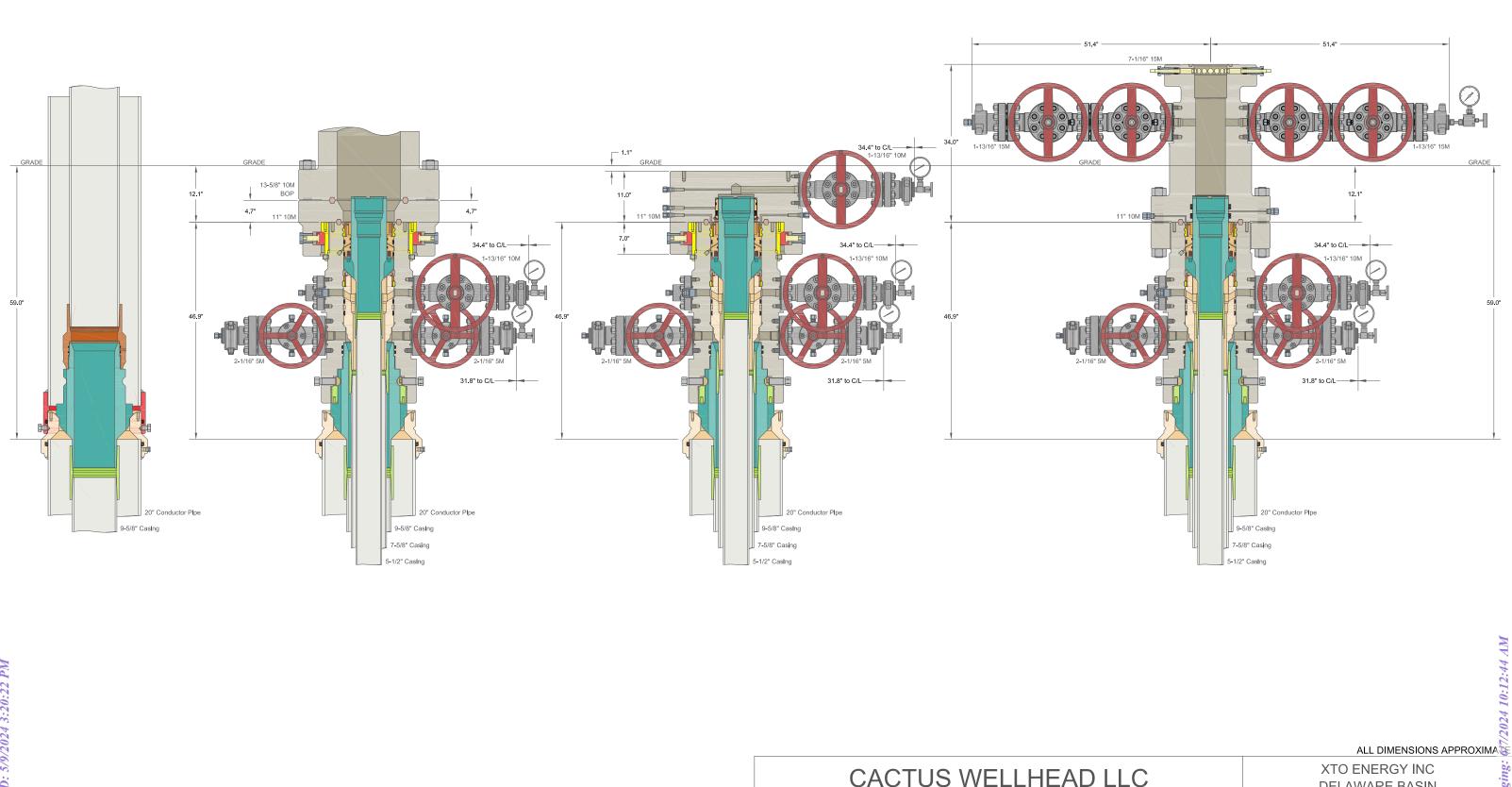
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19300.000	90.000	179.722	10779.997	74.576 0.000	72.856 -0.000	74.576 0.000	0.000	72.976	45.597	-4.487 MWD+IFR1+MS
19400.000	90.000	179.722	10779.997	75.304 0.000	73.502 -0.000	75.304 0.000	0.000	73.620	45.647	-4.405 MWD+IFR1+MS
19500.000	90.000	179.722	10779.997	76.033 0.000	74.151 -0.000	76.033 0.000	0.000	74.266	45.696	-4.325 MWD+IFR1+MS
19600.000	90.000	179.722	10779.997	76.763 0.000	74.801 -0.000	76.763 0.000	0.000	74.914	45.746	-4.249 MWD+IFR1+MS
19700.000	90.000	179.722	10779.997	77.495 0.000	75.454 -0.000	77.495 0.000	0.000	75.565	45.797	-4.175 MWD+IFR1+MS
19800.000	90.000	179.722	10779.997	78.227 0.000	76.109 -0.000	78.227 0.000	0.000	76.217	45.847	-4.103 MWD+IFR1+MS
19900.000	90.000	179.722	10779.997	78.960 0.000	76.766 -0.000	78.960 0.000	0.000	76.872	45.899	-4.034 MWD+IFR1+MS
20000.000	90.000	179.722	10779.997	79.695 0.000	77.425 -0.000	79.695 0.000	0.000	77.529	45.951	-3.967 MWD+IFR1+MS
20100.000	90.000	179.722	10779.997	80.430 0.000	78.086 -0.000	80.430 0.000	0.000	78.188	46.003	-3.903 MWD+IFR1+MS
20200.000	90.000	179.722	10779.997	81.166 0.000	78.749 -0.000	81.166 0.000	0.000	78.849	46.055	-3.841 MWD+IFR1+MS
20300.000	90.000	179.722	10779.997	81.903 0.000	79.414 -0.000	81.903 0.000	0.000	79.512	46.109	-3.780 MWD+IFR1+MS
20400.000	90.000	179.722	10779.997	82.641 0.000	80.080 -0.000	82.641 0.000	0.000	80.177	46.162	-3.722 MWD+IFR1+MS
20500.000	90.000	179.722	10779.997	83.380 0.000	80.748 -0.000	83.380 0.000	0.000	80.843	46.216	-3.665 MWD+IFR1+MS
20600.000	90.000	179.722	10779.997	84.120 0.000	81.418 -0.000	84.120 0.000	0.000	81.512	46.270	-3.611 MWD+IFR1+MS
20700.000	90.000	179.722	10779.997	84.860 0.000	82.090 -0.000	84.860 0.000	0.000	82.182	46.325	-3.557 MWD+IFR1+MS
20800.000	90.000	179.722	10779.997	85.602 0.000	82.763 -0.000	85.602 0.000	0.000	82.853	46.381	-3.506 MWD+IFR1+MS
20900.000	90.000	179.722	10779.997	86.344 0.000	83.438 -0.000	86.344 0.000	0.000	83.527	46.437	-3.456 MWD+IFR1+MS
21000.000	90.000	179.722	10779.997	87.087 0.000	84.114 -0.000	87.087 0.000	0.000	84.202	46.493	-3.407 MWD+IFR1+MS
21100.000	90.000	179.722	10779.997	87.830 0.000	84.792 -0.000	87.830 0.000	0.000	84.878	46.549	-3.360 MWD+IFR1+MS
21200.000	90.000	179.722	10779.997	88.574 0.000	85.472 -0.000	88.574 0.000	0.000	85.556	46.607	-3.314 MWD+IFR1+MS
21300.000	90.000	179.722	10779.997	89.319 0.000	86.152 -0.000	89.319 0.000	0.000	86.236	46.664	-3.270 MWD+IFR1+MS
21400.000	90.000	179.722	10779.997	90.065 0.000	86.835 -0.000	90.065 0.000	0.000	86.916	46.722	-3.226 MWD+IFR1+MS
21500.000	90.000	179.722	10779.997	90.811 0.000	87.518 -0.000	90.811 0.000	0.000	87.599	46.781	-3.184 MWD+IFR1+MS
21600.000	90.000	179.722	10779.997	91.558 0.000	88.203 -0.000	91.558 0.000	0.000	88.283	46.840	-3.143 MWD+IFR1+MS
21700.000	90.000	179.722	10779.997	92.306 0.000	88.890 -0.000	92.306 0.000	0.000	88.968	46.899	-3.103 MWD+IFR1+MS
21800.000	90.000	179.722	10779.997	93.054 0.000	89.577 -0.000	93.054 0.000	0.000	89.654	46.959	-3.064 MWD+IFR1+MS
21900.000	90.000	179.722	10779.997	93.803 0.000	90.266 -0.000	93.803 0.000	0.000	90.342	47.019	-3.027 MWD+IFR1+MS
22000.000	90.000	179.722	10779.997	94.552 0.000	90.956 -0.000	94.552 0.000	0.000	91.031	47.080	-2.990 MWD+IFR1+MS
22100.000	90.000	179.722	10779.997	95.302 0.000	91.647 -0.000	95.302 0.000	0.000	91.721	47.141	-2.954 MWD+IFR1+MS
22200.000	90.000	179.722	10779.997	96.052 0.000	92.340 -0.000	96.052 0.000	0.000	92.412	47.203	-2.919 MWD+IFR1+MS
22300.000	90.000		10779.997	96.803 0.000	93.033 -0.000	96.803 0.000	0.000	93.105	47.265	-2.885 MWD+IFR1+MS
22400.000	90.000		10779.997	97.555 0.000	93.728 -0.000	97.555 0.000	0.000	93.798	47.327	-2.851 MWD+IFR1+MS
22500.000	90.000	179.722	10779.997	98.307 0.000	94.424 -0.000	98.307 0.000	0.000	94.493	47.390	-2.819 MWD+IFR1+MS

Regeived by QGD:	5/9/2024 3	:20:22 PM	1					We	ell Plan R	Report				Page 29 of 42
22600.000	90.000	179.722	10779.997	99.059	0.000	95.120	-0.000	99.059	0.000	0.000	95.189	47.453	-2.787	MWD+IFR1+MS
22700.000	90.000	179.722	10779.997	99.813	0.000	95.818	-0.000	99.813	0.000	0.000	95.886	47.517	-2.756	MWD+IFR1+MS
22800.000	90.000	179.722	10779.997	100.566	0.000	96.517	-0.000	100.566	0.000	0.000	96.584	47.581	-2.726	MWD+IFR1+MS
22900.000	90.000	179.722	10779.997	101.320	0.000	97.217	-0.000	101.320	0.000	0.000	97.283	47.646	-2.696	MWD+IFR1+MS
23000.000	90.000	179.722	10779.997	102.075	0.000	97.918	-0.000	102.075	0.000	0.000	97.983	47.711	-2.667	MWD+IFR1+MS
23100.000	90.000	179.722	10779.997	102.830	0.000	98.620	-0.000	102.830	0.000	0.000	98.684	47.777	-2.639	MWD+IFR1+MS
23200.000	90.000	179.722	10779.997	103.585	0.000	99.323	-0.000	103.585	0.000	0.000	99.386	47.843	-2.611	MWD+IFR1+MS
23300.000	90.000	179.722	10779.997	104.341	0.000	100.027	-0.000	104.341	0.000	0.000	100.089	47.909	-2.585	MWD+IFR1+MS
23400.000	90.000	179.722	10779.997	105.097	0.000	100.731	-0.000	105.097	0.000	0.000	100.793	47.976	-2.558	MWD+IFR1+MS
23500.000	90.000	179.722	10779.997	105.854	0.000	101.437	-0.000	105.854	0.000	0.000	101.498	48.043	-2.532	MWD+IFR1+MS
23600.000	90.000	179.722	10779.997	106.611	0.000	102.143	-0.000	106.611	0.000	0.000	102.203	48.111	-2.507	MWD+IFR1+MS
23700.000	90.000	179.722	10779.997	107.368	0.000	102.850	-0.000	107.368	0.000	0.000	102.910	48.179	-2.482	MWD+IFR1+MS
23800.000	90.000	179.722	10779.997	108.126	0.000	103.558	-0.000	108.126	0.000	0.000	103.617	48.248	-2.458	MWD+IFR1+MS
23900.000	90.000	179.722	10779.997	108.884	0.000	104.267	-0.000	108.884	0.000	0.000	104.325	48.317	-2.435	MWD+IFR1+MS
24000.000	90.000	179.722	10779.997	109.643	0.000	104.977	-0.000	109.643	0.000	0.000	105.034	48.386	-2.411	MWD+IFR1+MS
24100.000	90.000	179.722	10779.997	110.402	0.000	105.687	-0.000	110.402	0.000	0.000	105.744	48.456	-2.389	MWD+IFR1+MS
24200.000	90.000	179.722	10779.997	111.161	0.000	106.398	-0.000	111.161	0.000	0.000	106.454	48.526	-2.366	MWD+IFR1+MS
24300.000	90.000	179.722	10779.997	111.921	0.000	107.110	-0.000	111.921	0.000	0.000	107.166	48.597	-2.345	MWD+IFR1+MS
24400.000	90.000	179.722	10779.997	112.681	0.000	107.823	-0.000	112.681	0.000	0.000	107.878	48.668	-2.323	MWD+IFR1+MS
24500.000	90.000	179.722	10779.997	113.441	0.000	108.536	-0.000	113.441	0.000	0.000	108.591	48.740	-2.302	MWD+IFR1+MS
24600.000	90.000	179.722	10779.997	114.202	0.000	109.251	-0.000	114.202	0.000	0.000	109.304	48.812	-2.282	MWD+IFR1+MS
24700.000	90.000	179.722	10779.997	114.963	0.000	109.965	-0.000	114.963	0.000	0.000	110.018	48.884	-2.262	MWD+IFR1+MS
24800.000	90.000	179.722	10779.997	115.724	0.000	110.681	-0.000	115.724	0.000	0.000	110.733	48.957	- 2.242	MWD+IFR1+MS
24900.000	90.000	179.722	10779.997	116.486	0.000	111.397	-0.000	116.486	0.000	0.000	111.449	49.030	-2.223	MWD+IFR1+MS
25000.000	90.000	179.722	10779.997	117.248	0.000	112.114	-0.000	117.248	0.000	0.000	112.165	49.103	-2.204	MWD+IFR1+MS
25100.000	90.000	179.722	10779.997	118.010	0.000	112.831	-0.000	118.010	0.000	0.000	112.882	49.177	-2.185	MWD+IFR1+MS
25200.000	90.000	179.722	10779.997	118.773	0.000	113.549	-0.000	118.773	0.000	0.000	113.599	49.252	-2.167	MWD+IFR1+MS
25300.000	90.000	179.722	10779.997	119.536	0.000	114.268	-0.000	119.536	0.000	0.000	114.318	49.326	-2.149	MWD+IFR1+MS
25400.000	90.000	179.722	10779.997	120.299	0.000	114.987	-0.000	120.299	0.000	0.000	115.036	49.402	-2.131	MWD+IFR1+MS
25500.000	90.000	179.722	10779.997	121.062	0.000	115.707	-0.000	121.062	0.000	0.000	115.756	49.477	-2.114	MWD+IFR1+MS
25600.000	90.000		10779.997	121.826	0.000	116.428	-0.000	121.826	0.000	0.000	116.476	49.553		MWD+IFR1+MS
25700.000	90.000	179.722	10779.997	122.590	0.000	117.149	-0.000	122.590	0.000	0.000	117.196	49.630		MWD+IFR1+MS
25800.000	90.000	179.722	10779.997	123.354	0.000	117.870	-0.000	123.354	0.000	0.000	117.917	49.706	-2.064	MWD+IFR1+MS

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25900.000	90.000	179.722	10779.997	124.118	0.000	118.592	-0.000	124.118	0.000	0.000	118.639	49.783	-2.048	MWD+IFR1+MS
26000.000	90.000	179.722	10779.997	124.883	0.000	119.315	-0.000	124.883	0.000	0.000	119.361	49.861	-2.032	MWD+IFR1+MS
26100.000	90.000	179.722	10779.997	125.648	0.000	120.038	-0.000	125.648	0.000	0.000	120.084	49.939	-2.016	MWD+IFR1+MS
26120.761	90.000	179.722	10779.997	125.807	0.000	120.188	-0.000	125.807	0.000	0.000	120.234	49.955	-2.013	MWD+IFR1+MS

Plan Targets	Poker Lake Unit 19 DTD South 310H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 18	10999.36	440329.60	628437.40	7571.00 RECTANGLE
SHL 20	3556.15	439365.15	628054.74	0.00 RECTANGLE
LTP 18	26021.44	424888.40	628512.20	7571.00 RECTANGLE
BHL 18	26121.55	424788.40	628512.40	7571.00 RECTANGLE





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CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBL With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tu And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Ca

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asing Hangers	DRAWING NO	D. HBE000	0479

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

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

Background

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

Supporting Documentation

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



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

Brossure Test I ow	Pressure Test—High Pressure ^{ac}					
Pressure rest Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket				
250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.				
250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP				
250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP				
250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP				
250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	ASP for the well program,				
250 to 350 (1.72 to 2.41)	MASP for the well program					
e during the evaluation period. The p						
from one wellhead to another within when the integrity of a pressure se		uired for pressure-containing an				
	Pressure Test—Low Pressure ²⁶ psig (MPa) 250 to 350 (1.72 to 2.41) eduring the evaluation period. The persure tested on the largest and sm of form one wellhead to another within the set on the largest and set on the lar	Pressure Test—Low Pressure* Change Out of Component, Elastomer, or Ring Gasket 250 to 350 (1.72 to 2.41) RWP of annular preventer 250 to 350 (1.72 to 2.41) RWP of ram preventer or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of ram preventer or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of ram preventers or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of valve(s), line(s), or full whichever is lower 250 to 350 (1.72 to 2.41) RWP of valve(s), line(s), or full whichever is lower 250 to 350 (1.72 to 2.41) MASP for the well program shall be a minimum of five minutes. MASP for the well program shall be a minimum of five minutes. D dnill pipe to be used in well form one wellhead to another within the 21 days, pressure shall not decrease below the essure tested on the largest and smallest OD dnill pipe to be used in well				

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

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

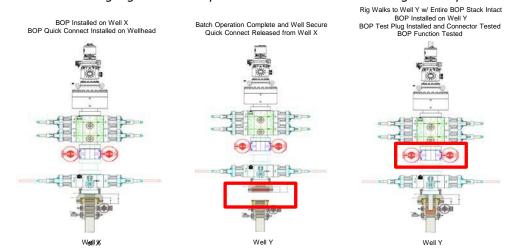
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 Oand often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often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

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

Procedures

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

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



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

Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

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

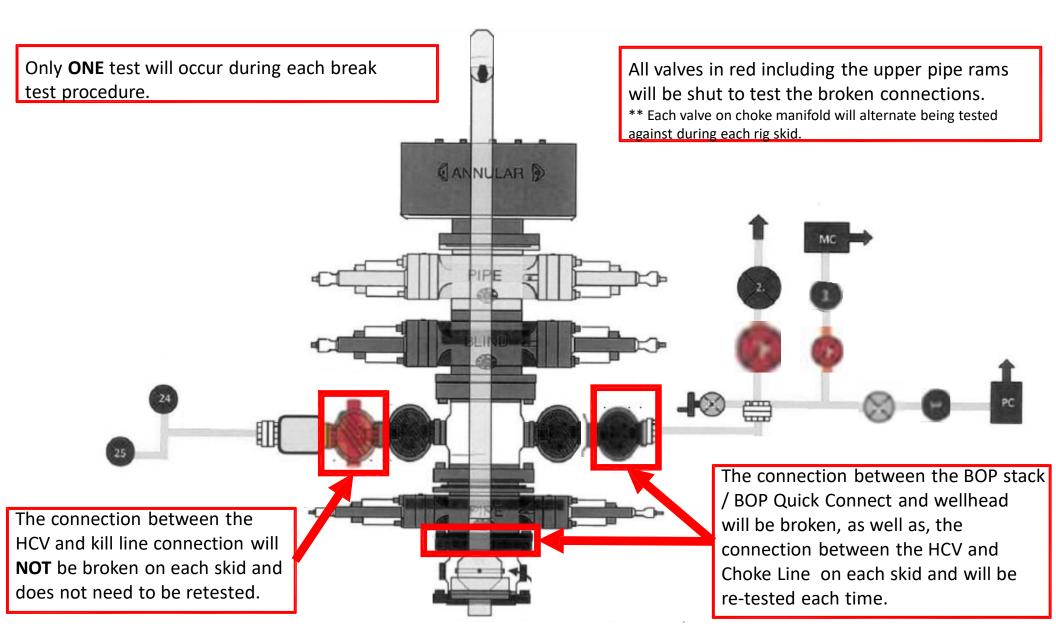
Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.

2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.



10,000 PSI Annular BOP Variance Request

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

1. Component and Preventer Compatibility Tables

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

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

2. Well Control Procedures

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

General Procedure While Drilling

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

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

General Procedure While Tripping

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

General Procedure While Running Production Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA Through Stack

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

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

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

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

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	342694
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	6/7/2024

Page 42 of 42

Action 342694