

Sundry Print Repor

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

Well Name: POKER LAKE UNIT 19 Well Location: T24S / R30E / SEC 19 /

SENW / 32.206569 / -103.924805 DTD

County or Parish/State: EDDY /

Well Number: 220H Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Unit or CA Name: POKER LAKE UNIT

Unit or CA Number:

NMNM71016X

US Well Number: Operator: XTO PERMIAN OPERATING

LLC

Notice of Intent

Lease Number: NMNM002860

Sundry ID: 2781299

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

Date Sundry Submitted: 03/22/2024 Time Sundry Submitted: 03:24

Date proposed operation will begin: 04/12/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, casing sizes, cement, and proposed total depth. FROM: TO: SHL: 1330' FNL & 1453' FWL of Section 19-T24S-R30E 1370' FNL & 1453' FWL of Section 19-T24S-R30E FTP: 100' FSL & 1870' FWL of Section 18-T24S-R30E 100' FNL & 2051' FWL of Section 19-T24S-R30E LTP: 2540' FSL & 1870' FWL of Section 31-T23S-R30E 100' FSL & 2051' FWL of Section 31-T24S-R30E BHL: 2590' FSL & 1870' FWL of Section 31-T23S-R30E 50' FSL & 2051' FWL of Section 31-T24S-R30E Proposed total depth will change from 30405' MD; 11635' TVD (Wolfcamp) to 25431' MD; TVD 9832' (Bone Spring 3 Shale). 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_220H_Sundry_Attachments_20240322152339.pdf

Page 1 of 2

eived by OCD: 5/6/2024 7:17:12 AM Well Name: POKER LAKE UNIT 19

Well Location: T24S / R30E / SEC 19 /

SENW / 32.206569 / -103.924805

County or Parish/State: Page 2 of NM

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Unit or CA Number: NMNM71016X

US Well Number:

Operator: XTO PERMIAN OPERATING

Conditions of Approval

Additional

Sec19 24S 30E NMP Sundry 2781299 Poker Lake Unit 19 DTD 220H COAs 20240404114436.pdf

Operator

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

Operator Electronic Signature: TERRA SEBASTIAN Signed on: MAR 22, 2024 03:23 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND State: TX

Phone: (432) 999-3107

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

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Approved Disposition Date: 05/03/2024

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED	
OMB No. 1004-0137	
Expires: October 31, 202	21

DEI	ANTIVIDINI OF THE INTERIOR	L							
	EAU OF LAND MANAGEMEN				5. Lease Serial No.				
Do not use this t	NOTICES AND REPORTS ON form for proposals to drill or Use Form 3160-3 (APD) for s	to re-	enter an) <u>.</u>	6. If Indian, Allottee o	r Tribe l	Name		
	TRIPLICATE - Other instructions on p	age 2			7. If Unit of CA/Agre	ement, N	Name and/or No.		
1. Type of Well					8. Well Name and No.				
Oil Well Gas V 2. Name of Operator	Vell Other				9. API Well No.				
•	T								
3a. Address	3b. Phone N	o. (inclu	de area code	2)	10. Field and Pool or Exploratory Area				
4. Location of Well (Footage, Sec., T., K	R.,M., or Survey Description)				11. Country or Parish,	State			
12. CHE	CK THE APPROPRIATE BOX(ES) TO I	NDICA	ΓE NATURE	OF NOTI	CE, REPORT OR OTI	HER DA	ATA		
TYPE OF SUBMISSION			TY	PE OF ACT	ΓΙΟΝ				
Notice of Intent		eepen			uction (Start/Resume)	=	Water Shut-Off		
_			Fracturing	=	amation	_	Well Integrity		
Subsequent Report		ew Const			mplete		Other		
Final Abandonment Notice		ug and A ug Back	bandon		oorarily Abandon r Disposal				
	ons. If the operation results in a multiple of tices must be filed only after all requirements								
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)								
		Title							
Signature		Date	:						
	THE SPACE FOR FE	DERA	L OR ST	ATE OF	ICE USE				
Approved by									
			Title]	Date			
	hed. Approval of this notice does not warn equitable title to those rights in the subject iduct operations thereon.								

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

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

Location of Well

0. SHL: SENW / 1330 FNL / 1453 FWL / TWSP: 24S / RANGE: 30E / SECTION: 19 / LAT: 32.206569 / LONG: -103.924805 (TVD: 0 feet, MD: 0 feet)
PPP: SESW / 330 FSL / 1870 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22543 / LONG: -103.92349 (TVD: 11635 feet, MD: 17400 feet)
PPP: SESW / 100 FSL / 1870 FWL / TWSP: 24S / RANGE: 30E / SECTION: 18 / LAT: 32.210514 / LONG: -103.923467 (TVD: 11635 feet, MD: 12100 feet)
PPP: NENW / 330 FSL / 1870 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.25081 / LONG: -103.92342 (TVD: 11635 feet, MD: 26700 feet)
BHL: NESW / 2590 FSL / 1870 FWL / TWSP: 23S / RANGE: 30E / SECTION: 31 / LAT: 32.261075 / LONG: -103.923519 (TVD: 11635 feet, MD: 30405 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating LLC
WELL NAME & NO.: Poker Lake Unit 19 DTD 220H
LOCATION: Sec 19-24S-30E-NMP
COUNTY: Eddy County, New Mexico

Changes approved through engineering via **Sundry 2781299** on 04/04/2024. Any previous COAs not addressed within the updated COAs still apply.

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The **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 **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead

cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - 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 Medium Cave/Karst Areas 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. 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.

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, BLM_NM_CFO_DrillingNotifications@blm.gov; (575) 361-2822

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

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

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

A. CASING

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

- or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

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

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

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.
- C. **DRILLING MUD:** Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.
- D. WASTE MATERIAL AND FLUIDS: All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

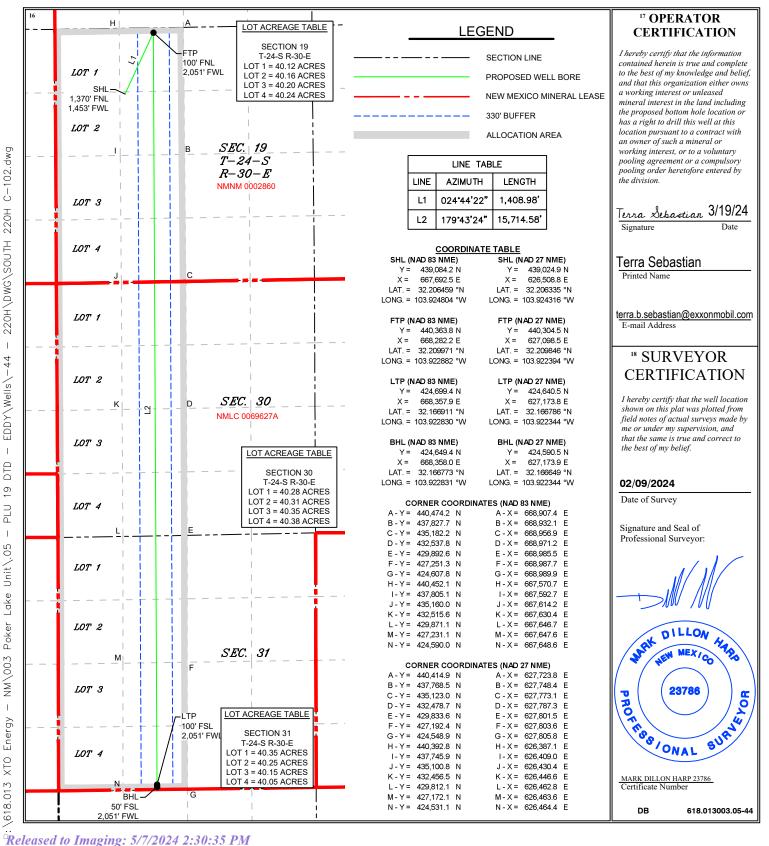
¹ API Number	-	² Pool Code 47545	e/BS (Avalon Sand)	
⁴ Property Code 333976			roperty Name AKE UNIT 19 DTD	⁶ Well Number 220H
⁷ OGRID No. 373075			perator Name AN OPERATING, LLC	⁹ Elevation 3,156 '

UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County
F 19 24S 30E 1,370 NORTH 1,453 WEST EDDY

"Bottom Hole Location If Different From Surface

UL or lot no. East/West line Section Feet from the County Township Range Lot Idn Feet from the North/South line 31 **24S** 30E 50 SOUTH 2,051 WEST **EDDY** Joint or Infill Dedicated Acres Consolidation Code Order No. 962.84

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.



Inten	t	As Dril	led										
API#	<u> </u>												
Ope	rator Nar	ne:	l			Property N	lame	:				Well Number	
Kick (Off Point	(KOP)											
UL	Section	Township	Range	Lot	Feet	From N	I/S	Feet	F	rom E/W	County		
Latitu	ude			I	Longitu	ıde			l		NAD		
First ⁻	Take Poin	it (FTP)			·						•		
UL	Section	Township	Range	Lot	Feet	From N	I/S	Feet	F	om E/W	County		
Latitu	ude				Longitu	Longitude NAD							
Last 1	Take Poin	t (LTP)	Range	Lot	Feet	From N/S	Feet		From E/\	V Coun	ty		
Latitu	ude				Longitu	ıde				NAD			
			vell for th	e Hori	zontal S _l	pacing Unit?	, []				
Is this	s well an i	infill well?											
	ll is yes pl ng Unit.	lease provi	de API if	availal	ole, Ope	rator Name	and w	vell nı	umber fo	or Defini	ng well fo	or Horizontal	
API#	1												
Operator Name:						Property Name:						Well Number	
<u> </u>												 K7 00 /20 /2010	

KZ 06/29/2018

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

XTO Energy Inc.

Poker Lake Unit 19 DTD South 220H Projected TD: 25431' MD / 9832' TVD SHL: 1370' FNL & 1453' FWL , Section 19, T24S, R30E BHL: 50' FSL & 2051' FWL , 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	600'	Water
Top of Salt	1003'	Water
Base of Salt	3196'	Water
Delaware	3390'	Water
Brushy Canyon	5888'	Water/Oil/Gas
Bone Spring	7184'	Water
Avalon	7354'	Water/Oil/Gas
1st Bone Spring	8170'	Water/Oil/Gas
2nd Bone Spring	8988'	Water/Oil/Gas
3rd Bone Spring	9682'	Water/Oil/Gas
Target/Land Curve	9832'	Water/Oil/Gas

^{***} Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 9.625 inch casing @ 700' (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 9108.07' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 25431 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8808.07 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 700'	9.625	40	J-55	втс	New	1.83	8.99	22.50
8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	3.10	2.92	2.06
8.75	4000' – 9108.07'	7.625	29.7	CY P-110	Flush Joint	New	3.10	2.43	6.33
6.75	0' - 9008.07'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.32	2.04
6.75	9008.07' - 25431'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.13	2.04

- · XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- · 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
- · XTO requests the option to use 5" BTC Float equipment for the the production casing

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

Wellhead:

- Permanent Wellhead Multibowl System

 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
 - · 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

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 700'

Lead: 130 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 +/- 9108.07'

st Stage

Optional Lead: 320 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 290 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 5888

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

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water) Tail: 660 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 (5888') 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 +/- 25431'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8808.07 feet
Tail: 1150 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9308.07 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 3052 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	Mud Type	MW	Viscosity	Fluid Loss
INTERVAL	Hole Size	Mud Type	(ppg)	(sec/qt)	(cc)
0' - 700'	12.25	FW/Native	8.4-8.9	35-40	NC
700' - 9108.07'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
9108.07' - 25431'	6.75	ОВМ	10.2-10.7	50-60	NC - 20

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

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

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 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 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5215 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 220H

 Measured Depth:
 25431.00 ft

 TVD RKB:
 9832.00 ft

Location

New Mexico East -Cartographic Reference System: NAD 27 Northing: 439024.90 ft Easting: 626508.80 ft RKB: 3188.00 ft **Ground Level:** 3156.00 ft North Reference: Grid **Convergence Angle:** 0.22 Deg

Plan Sections Poker Lake Unit 19 DTD South 220H

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
1922.50	16.45	24.74	1911.25	106.50	49.08	2.00	0.00	2.00
6069.77	16.45	24.74	5888.75	1173.10	540.62	0.00	0.00	0.00
6892.27	0.00	0.00	6700.00	1279.60	589.70	-2.00	0.00	2.00
9308.07	0.00	0.00	9115.80	1279.60	589.70	0.00	0.00	0.00
10433.07	90.00	179.73	9832.00	563.41	593.14	8.00	0.00	8.00
11251.14	90.00	179.73	9832.00	-254.65	597.06	0.00	0.00	0.00 LTP 12
25431.00	90.00	179.73	9832.00	-14434.35	665.12	0.00	0.00	0.00 BHL 12

Position Uncertainty Poker Lake Unit 19 DTD South 220H

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

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)	(°)	
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
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
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
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
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
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
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
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
0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.482	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
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
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
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
2.000	24.742	1199.980	5.241	0.000	4.280	0.000	2.685	0.000	0.000	5.303	4.205	128.973	MWD+IFR1+MS
4.000	24.742	1299.838	5.999	0.000	4.664	0.000	2.745	0.000	0.000	6.088	4.560	128.806	MWD+IFR1+MS
6.000	24.742	1399.452	6.684	0.000	5.044	0.000	2.810	0.000	0.000	6.800	4.915	128.719	MWD+IFR1+MS
8.000	24.742	1498.702	7.314	0.000	5.420	0.000	2.883	0.000	0.000	7.458	5.269	128.667	MWD+IFR1+MS
10.000	24.742	1597.465	7.901	0.000	5.794	0.000	2.965	0.000	0.000	8.076	5.625	128.635	MWD+IFR1+MS
12.000	24.742	1695.623	8.454	0.000	6.167	0.000	3.059	0.000	0.000	8.661	5.981	128.619	MWD+IFR1+MS
14.000	24.742	1793.055	8.977	0.000	6.539	0.000	3.167	0.000	0.000	9.218	6.339	128.615	MWD+IFR1+MS
16.000	24.742	1889.643	9.476	0.000	6.911	0.000	3.291	0.000	0.000	9.754	6.699	128.623	MWD+IFR1+MS
16.450	24.742	1911.246	9.527	0.000	6.990	0.000	3.302	0.000	0.000	9.817	6.780	128.590	MWD+IFR1+MS
16.450	24.742	1985.574	9.739	0.000	7.265	0.000	3.369	0.000	0.000	10.019	7.063	128.589	MWD+IFR1+MS
16.450	24.742	2081.481	10.026	0.000	7.637	0.000	3.463	0.000	0.000	10.295	7.439	128.786	MWD+IFR1+MS
16.450	24.742	2177.388	10.325	0.000	8.017	0.000	3.562	0.000	0.000	10.584	7.821	129.055	MWD+IFR1+MS
16.450	24.742	2273.295	10.631	0.000	8.398	0.000	3.665	0.000	0.000	10.880	8.204	129.320	MWD+IFR1+MS
16.450	24.742	2369.201	10.945	0.000	8.781	0.000	3.771	0.000	0.000	11.182	8.587	129.581	MWD+IFR1+MS
16.450	24.742	2465.108	11.264	0.000	9.165	0.000	3.882	0.000	0.000	11.489	8.972	129.838	MWD+IFR1+MS
16.450	24.742	2561.015	11.590	0.000	9.550	0.000	3.995	0.000	0.000	11.802	9.358	130.091	MWD+IFR1+MS
16.450	24.742	2656.921	11.921	0.000	9.936	0.000	4.111	0.000	0.000	12.120	9.745	130.340	MWD+IFR1+MS
16.450	24.742	2752.828	12.256	0.000	10.322	0.000	4.230	0.000	0.000	12.442	10.132	130.586	MWD+IFR1+MS
16.450	24.742	2848.735	12.596	0.000	10.710	0.000	4.352	0.000	0.000	12.769	10.520	130.827	MWD+IFR1+MS
	(°) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 2.000 4.000 4.000 6.000 12.000 14.000 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450 16.450	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 2.000 24.742 4.000 24.742 10.000 24.742 12.000 24.742 16.000 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 24.742 16.450 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6.000 24.742 1399.452 6.684 8.000 24.742 1498.702 7.314 10.000 24.742 1597.465 7.901 <tr< td=""><td>(°) (°) (ft) (ft) (ft) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 100.000 0.700 0.000 0.000 0.000 200.000 1.112 0.000 0.000 0.000 300.000 1.497 0.000 0.000 0.000 500.000 2.240 0.000 0.000 0.000 500.000 2.607 0.000 0.000 0.000 600.000 2.607 0.000 0.000 0.000 700.000 2.971 0.000 0.000 0.000 800.000 3.334 0.000 0.000 0.000 900.000 3.696 0.000 0.000 0.000 1000.000 4.058 0.000 0.000 0.000 1100.000 4.419 0.000 2.000 24.742 1199.980 5.241 0.000 4.000 24.742 1399.452 6.684 0.000<!--</td--><td>(°) (°) (ft) (ft) (ft) (ft) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 100.000 0.700 0.000 0.350 0.000 0.000 200.000 1.112 0.000 0.861 0.000 0.000 300.000 1.497 0.000 1.658 0.000 0.000 400.000 1.871 0.000 1.658 0.000 0.000 500.000 2.240 0.000 2.034 0.000 0.000 600.000 2.607 0.000 2.405 0.000 0.000 700.000 2.971 0.000 2.773 0.000 0.000 800.000 3.334 0.000 3.138 0.000 0.000 1000.000 4.058 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3000.000	16.450	24.742	2944.642	12.940	0.000	11.098	0.000	4.476	0.000	0.000	13.099	10.909	131.065	MWD+IFR1+MS
3100.000	16.450	24.742	3040.548	13.288	0.000	11.486	0.000	4.603	0.000	0.000	13.433	11.298	131.300	MWD+IFR1+MS
3200.000	16.450	24.742	3136.455	13.640	0.000	11.875	0.000	4.732	0.000	0.000	13.770	11.688	131.530	MWD+IFR1+MS
3300.000	16.450	24.742	3232.362	13.994	0.000	12.265	0.000	4.863	0.000	0.000	14.110	12.078	131.757	MWD+IFR1+MS
3400.000	16.450	24.742	3328.269	14.352	0.000	12.655	0.000	4.996	0.000	0.000	14.453	12.468	131.981	MWD+IFR1+MS
3500.000	16.450	24.742	3424.175	14.713	0.000	13.046	0.000	5.130	0.000	0.000	14.798	12.859	132.201	MWD+IFR1+MS
3600.000	16.450	24.742	3520.082	15.076	0.000	13.436	0.000	5.267	0.000	0.000	15.147	13.250	132.418	MWD+IFR1+MS
3700.000	16.450	24.742	3615.989	15.441	0.000	13.827	0.000	5.406	0.000	0.000	15.497	13.642	132.631	MWD+IFR1+MS
3800.000	16.450	24.742	3711.895	15.809	0.000	14.219	0.000	5.546	0.000	0.000	15.850	14.033	132.841	MWD+IFR1+MS
3900.000	16.450	24.742	3807.802	16.179	0.000	14.610	0.000	5.688	0.000	0.000	16.204	14.425	133.047	MWD+IFR1+MS
4000.000	16.450	24.742	3903.709	16.550	0.000	15.002	0.000	5.832	0.000	0.000	16.561	14.818	133.250	MWD+IFR1+MS
4100.000	16.450	24.742	3999.616	16.924	0.000	15.395	0.000	5.978	0.000	0.000	16.919	15.210	133.450	MWD+IFR1+MS
4200.000	16.450	24.742	4095.522	17.299	0.000	15.787	0.000	6.125	0.000	0.000	17.279	15.603	133.647	MWD+IFR1+MS
4300.000	16.450	24.742	4191.429	17.676	0.000	16.180	0.000	6.274	0.000	0.000	17.640	15.996	133.840	MWD+IFR1+MS
4400.000	16.450	24.742	4287.336	18.054	0.000	16.572	0.000	6.424	0.000	0.000	18.003	16.389	134.030	MWD+IFR1+MS
4500.000	16.450	24.742	4383.243	18.434	0.000	16.965	0.000	6.576	0.000	0.000	18.367	16.782	134.217	MWD+IFR1+MS
4600.000	16.450	24.742	4479.149	18.815	0.000	17.358	0.000	6.729	0.000	0.000	18.733	17.175	134.400	MWD+IFR1+MS
4700.000	16.450	24.742	4575.056	19.197	0.000	17.752	0.000	6.884	0.000	0.000	19.100	17.569	134.581	MWD+IFR1+MS
4800.000	16.450	24.742	4670.963	19.581	0.000	18.145	0.000	7.041	0.000	0.000	19.468	17.962	134.758	MWD+IFR1+MS
4900.000	16.450	24.742	4766.869	19.965	0.000	18.539	0.000	7.199	0.000	0.000	19.837	18.356	134.932	MWD+IFR1+MS
5000.000	16.450	24.742	4862.776	20.351	0.000	18.932	0.000	7.359	0.000	0.000	20.207	18.750	-44.897	MWD+IFR1+MS
5100.000	16.450	24.742	4958.683	20.737	0.000	19.326	0.000	7.521	0.000	0.000	20.578	19.144	-44.730	MWD+IFR1+MS
5200.000	16.450	24.742	5054.590	21.125	0.000	19.720	0.000	7.684	0.000	0.000	20.950	19.538	- 44.565	MWD+IFR1+MS
5300.000	16.450	24.742	5150.496	21.513	0.000	20.114	0.000	7.848	0.000	0.000	21.323	19.933	-44.404	MWD+IFR1+MS
5400.000	16.450	24.742	5246.403	21.902	0.000	20.508	0.000	8.014	0.000	0.000	21.697	20.327	-44.246	MWD+IFR1+MS
5500.000	16.450	24.742	5342.310	22.292	0.000	20.902	0.000	8.182	0.000	0.000	22.071	20.721	-44.091	MWD+IFR1+MS
5600.000	16.450	24.742	5438.216	22.683	0.000	21.297	0.000	8.351	0.000	0.000	22.446	21.116	- 43.939	MWD+IFR1+MS
5700.000	16.450	24.742	5534.123	23.074	0.000	21.691	0.000	8.523	0.000	0.000	22.822	21.511	- 43.790	MWD+IFR1+MS
5800.000	16.450	24.742	5630.030	23.466	0.000	22.085	0.000	8.695	0.000	0.000	23.199	21.906	- 43.645	MWD+IFR1+MS
5900.000	16.450	24.742	5725.937	23.859	0.000	22.480	0.000	8.870	0.000	0.000	23.577	22.300	-43.503	MWD+IFR1+MS
6000.000	16.450	24.742	5821.843	24.252	0.000	22.875	0.000	9.046	0.000	0.000	23.955	22.695	- 43.364	MWD+IFR1+MS
6069.766	16.450	24.742	5888.754	24.524	0.000	23.147	0.000	9.169	0.000	0.000	24.215	22.970	-43.359	MWD+IFR1+MS
6100.000	15.845	24.742	5917.795	24.656	0.000	23.264	0.000	9.223	0.000	0.000	24.326	23.088	- 43.389	MWD+IFR1+MS

6200.000	13.845	24.742	6014.452	25.113	0.000	23.649	0.000	9.405	0.000	0.000	24.735	23.476	-43.769 M	IWD+IFR1+MS
6300.000	11.845	24.742	6111.944	25.593	0.000	24.031	0.000	9.588	0.000	0.000	25.200	23.857	-44.443 M	IWD+IFR1+MS
6400.000	9.845	24.742	6210.153	26.034	0.000	24.405	0.000	9.760	0.000	0.000	25.659	24.230	134.958 M	IWD+IFR1+MS
6500.000	7.845	24.742	6308.959	26.433	0.000	24.771	0.000	9.922	0.000	0.000	26.109	24.595	134.432 M	IWD+IFR1+MS
6600.000	5.845	24.742	6408.241	26.791	0.000	25.129	0.000	10.076	0.000	0.000	26.549	24.951	133.975 M	IWD+IFR1+MS
6700.000	3.845	24.742	6507.879	27.109	0.000	25.478	0.000	10.222	0.000	0.000	26.980	25.298	133.583 M	IWD+IFR1+MS
6800.000	1.845	24.742	6607.750	27.384	0.000	25.819	0.000	10.363	0.000	0.000	27.400	25.636	133.251 M	IWD+IFR1+MS
6892.266	0.000	0.000	6700.000	26.943	0.000	26.787	0.000	10.488	0.000	0.000	27.754	25.946	132.529 M	IWD+IFR1+MS
6900.000	0.000	0.000	6707.734	26.967	0.000	26.811	0.000	10.499	0.000	0.000	27.777	25.971	132.524 M	IWD+IFR1+MS
7000.000	0.000	0.000	6807.734	27.281	0.000	27.125	0.000	10.634	0.000	0.000	28.080	26.297	132.482 M	IWD+IFR1+MS
7100.000	0.000	0.000	6907.734	27.601	0.000	27.444	0.000	10.773	0.000	0.000	28.394	26.623	132.454 M	IWD+IFR1+MS
7200.000	0.000	0.000	7007.734	27.922	0.000	27.765	0.000	10.914	0.000	0.000	28.708	26.951	132.427 M	IWD+IFR1+MS
7300.000	0.000	0.000	7107.734	28.244	0.000	28.086	0.000	11.059	0.000	0.000	29.024	27.279	132.399 M	IWD+IFR1+MS
7400.000	0.000	0.000	7207.734	28.567	0.000	28.408	0.000	11.206	0.000	0.000	29.341	27.608	132.372 M	IWD+IFR1+MS
7500.000	0.000	0.000	7307.734	28.891	0.000	28.731	0.000	11.357	0.000	0.000	29.658	27.938	132.345 M	IWD+IFR1+MS
7600.000	0.000	0.000	7407.734	29.215	0.000	29.055	0.000	11.510	0.000	0.000	29.977	28.269	132.318 M	IWD+IFR1+MS
7700.000	0.000	0.000	7507.734	29.540	0.000	29.380	0.000	11.667	0.000	0.000	30.296	28.600	132.292 M	IWD+IFR1+MS
7800.000	0.000	0.000	7607.734	29.866	0.000	29.706	0.000	11.827	0.000	0.000	30.616	28.932	132.265 M	IWD+IFR1+MS
7900.000	0.000	0.000	7707.734	30.193	0.000	30.032	0.000	11.990	0.000	0.000	30.938	29.264	132.239 M	IWD+IFR1+MS
8000.000	0.000	0.000	7807.734	30.520	0.000	30.359	0.000	12.156	0.000	0.000	31.259	29.597	132.213 M	IWD+IFR1+MS
8100.000	0.000	0.000	7907.734	30.848	0.000	30.687	0.000	12.325	0.000	0.000	31.582	29.931	132.187 M	IWD+IFR1+MS
8200.000	0.000	0.000	8007.734	31.177	0.000	31.015	0.000	12.497	0.000	0.000	31.906	30.265	132.162 M	IWD+IFR1+MS
8300.000	0.000	0.000	8107.734	31.507	0.000	31.344	0.000	12.673	0.000	0.000	32.230	30.600	132.137 M	IWD+IFR1+MS
8400.000	0.000	0.000	8207.734	31.837	0.000	31.674	0.000	12.851	0.000	0.000	32.555	30.935	132.112 M	IWD+IFR1+MS
8500.000	0.000	0.000	8307.734	32.167	0.000	32.004	0.000	13.033	0.000	0.000	32.880	31.271	132.087 M	IWD+IFR1+MS
8600.000	0.000	0.000	8407.734	32.499	0.000	32.335	0.000	13.218	0.000	0.000	33.207	31.607	132.062 M	IWD+IFR1+MS
8700.000	0.000	0.000	8507.734	32.830	0.000	32.666	0.000	13.407	0.000	0.000	33.534	31.944	132.038 M	IWD+IFR1+MS
8800.000	0.000	0.000	8607.734	33.163	0.000	32.998	0.000	13.598	0.000	0.000	33.861	32.281	132.013 M	IWD+IFR1+MS
8900.000	0.000	0.000	8707.734	33.496	0.000	33.331	0.000	13.793	0.000	0.000	34.190	32.619	131.989 M	IWD+IFR1+MS
9000.000	0.000	0.000	8807.734	33.829	0.000	33.664	0.000	13.991	0.000	0.000	34.518	32.957	131.965 M	IWD+IFR1+MS
9100.000	0.000	0.000	8907.734	34.163	0.000	33.998	0.000	14.192	0.000	0.000	34.848	33.295	131.942 M	IWD+IFR1+MS
9200.000	0.000	0.000	9007.734	34.497	0.000	34.332	0.000	14.396	0.000	0.000	35.178	33.634	131.918 M	IWD+IFR1+MS
9308.066	0.000	0.000	9115.800	34.860	0.000	34.694	0.000	14.621	0.000	0.000	35.537	34.001	131.897 M	IWD+IFR1+MS

9400.000	7.355	179.725	9207.482	34.493	0.000	34.983	-0.000	14.817	0.000	0.000	35.908	34.371	128.557 N	/WD+IFR1+MS
9500.000	15.355	179.725	9305.445	34.491	0.000	35.258	-0.000	15.114	0.000	0.000	36.977	34.880	114.527 N	/WD+IFR1+MS
9600.000	23.355	179.725	9399.717	34.079	0.000	35.504	-0.000	15.599	0.000	0.000	38.110	35.219	107.675 M	/WD+IFR1+MS
9700.000	31.355	179.725	9488.463	33,235	0.000	35.719	-0.000	16.335	0.000	0.000	39.107	35.474	104.445 N	/WD+IFR1+MS
9800.000	39.355	179.725	9569.955	32.065	0.000	35.903	-0.000	17.351	0.000	0.000	39.926	35.674	102.775 M	/IWD+IFR1+MS
9900.000	47.355	179.725	9642.608	30.704	0.000	36.054	-0.000	18.638	0.000	0.000	40.558	35.830	101.912 M	/IWD+IFR1+MS
10000.000	55.355	179.725	9705.007	29.325	0.000	36.173	-0.000	20.155	0.000	0.000	41.010	35.947	101.531 M	/IWD+IFR1+MS
10100.000	63.355	179.725	9755.937	28.125	0.000	36.260	-0.000	21.845	0.000	0.000	41.303	36.026	101.467 M	/IWD+IFR1+MS
10200.000	71.355	179.725	9794.408	27.318	0.000	36.317	-0.000	23.642	0.000	0.000	41.464	36.072	101.617 M	/IWD+IFR1+MS
10300.000	79.355	179.725	9819.671	27.094	0.000	36.344	-0.000	25.481	0.000	0.000	41.532	36.085	101.887 N	/IWD+IFR1+MS
10400.000	87.355	179.725	9831.234	27.570	0.000	36.342	-0.000	27.299	0.000	0.000	41.551	36.069	102.179 M	/IWD+IFR1+MS
10433.066	90.000	179.725	9831.997	27.445	0.000	36.333	-0.000	27.445	0.000	0.000	41.554	36.055	102.250 M	/IWD+IFR1+MS
10500.000	90.000	179.725	9831.997	27.615	0.000	36.315	-0.000	27.615	0.000	0.000	41.561	36.030	102.400 M	/IWD+IFR1+MS
10600.000	90.000	179.725	9831.997	27.854	0.000	36.307	-0.000	27.854	0.000	0.000	41.572	36.008	102.657 M	/IWD+IFR1+MS
10700.000	90.000	179.725	9831.997	28.115	0.000	36.316	-0.000	28.115	0.000	0.000	41.585	36.003	102.948 M	/WD+IFR1+MS
10800.000	90.000	179.725	9831.997	28.396	0.000	36.342	-0.000	28.396	0.000	0.000	41.599	36.013	103.271 N	/WD+IFR1+MS
10900.000	90.000	179.725	9831.997	28.695	0.000	36.383	-0.000	28.695	0.000	0.000	41.615	36.038	103.627 M	/WD+IFR1+MS
11000.000	90.000	179.725	9831.997	29.012	0.000	36.441	-0.000	29.012	0.000	0.000	41.633	36.078	104.020 M	/WD+IFR1+MS
11100.000	90.000	179.725	9831.997	29.347	0.000	36.514	-0.000	29.347	0.000	0.000	41.653	36.132	104.452 N	/WD+IFR1+MS
11200.000	90.000	179.725	9831.997	29.699	0.000	36.604	-0.000	29.699	0.000	0.000	41.675	36.201	104.927 N	/WD+IFR1+MS
11251.139	90.000	179.725	9831.997	29.883	0.000	36.652	-0.000	29.883	0.000	0.000	41.687	36.239	105.181 M	/WD+IFR1+MS
11300.000	90.000	179.725	9831.997	30.062	0.000	36.703	-0.000	30.062	0.000	0.000	41.699	36.278	105.433 N	/WD+IFR1+MS
11400.000	90.000	179.725	9831.997	30.443	0.000	36.821	-0.000	30.443	0.000	0.000	41.725	36.373	106.000 M	/WD+IFR1+MS
11500.000	90.000	179.725	9831.997	30.843	0.000	36.957	-0.000	30.843	0.000	0.000	41.754	36.483	106.628 M	/WD+IFR1+MS
11600.000	90.000	179.725	9831.997	31.256	0.000	37.109	-0.000	31.256	0.000	0.000	41.786	36.605	107.319 M	MWD+IFR1+MS
11700.000	90.000	179.725	9831.997	31.684	0.000	37.275	-0.000	31.684	0.000	0.000	41.822	36.741	108.080 M	MWD+IFR1+MS
11800.000	90.000	179.725	9831.997	32.126	0.000	37.457	-0.000	32.126	0.000	0.000	41.861	36.888	108.918 M	MWD+IFR1+MS
11900.000	90.000	179.725	9831.997	32.580	0.000	37.653	-0.000	32.580	0.000	0.000	41.904	37.046	109.843 M	MWD+IFR1+MS
12000.000	90.000	179.725	9831.997	33.046	0.000	37.864	-0.000	33.046	0.000	0.000	41.952	37.214	110.864 M	MWD+IFR1+MS
12100.000	90.000	179.725	9831.997	33.525	0.000	38.089	-0.000	33.525	0.000	0.000	42.005	37.392	111.992 M	MWD+IFR1+MS
12200.000	90.000	179.725	9831.997	34.015	0.000	38.328	-0.000	34.015	0.000	0.000	42.065	37.578	113.240 N	MWD+IFR1+MS
12300.000	90.000	179.725	9831.997	34.516	0.000	38.580	-0.000	34.516	0.000	0.000	42.132	37.772	114.620 M	MWD+IFR1+MS
12400.000	90.000	179.725	9831.997	35.027	0.000	38.846	-0.000	35.027	0.000	0.000	42.206	37.971	116.145 N	MWD+IFR1+MS

12500.000	90.000	179.725	9831.997	35.548	0.000	39.126	-0.000	35.548	0.000	0.000	42.290	38.175	117.827	MWD+IFR1+MS
12600.000	90.000	179.725	9831.997	36.079	0.000	39.418	-0.000	36.079	0.000	0.000	42.385	38.382	119.677	MWD+IFR1+MS
12700.000	90.000	179.725	9831.997	36.619	0.000	39.722	-0.000	36.619	0.000	0.000	42.492	38.589	121.701	MWD+IFR1+MS
12800.000	90.000	179.725	9831.997	37.167	0.000	40.039	-0.000	37.167	0.000	0.000	42.613	38.795	123.900	MWD+IFR1+MS
12900.000	90.000	179.725	9831.997	37.724	0.000	40.368	-0.000	37.724	0.000	0.000	42.751	38.998	126.267	MWD+IFR1+MS
13000.000	90.000	179.725	9831.997	38.289	0.000	40.709	-0.000	38.289	0.000	0.000	42.905	39.196	128.785	MWD+IFR1+MS
13100.000	90.000	179.725	9831.997	38.862	0.000	41.061	-0.000	38.862	0.000	0.000	43.080	39.386	131.424	MWD+IFR1+MS
13200.000	90.000	179.725	9831.997	39.442	0.000	41.425	-0.000	39.442	0.000	0.000	43.275	39.566	134.145	MWD+IFR1+MS
13300.000	90.000	179.725	9831.997	40.028	0.000	41.799	-0.000	40.028	0.000	0.000	43.493	39.736	-43.101 J	MWD+IFR1+MS
13400.000	90.000	179.725	9831.997	40.622	0.000	42.184	-0.000	40.622	0.000	0.000	43.733	39.895	-40.364 I	MWD+IFR1+MS
13500.000	90.000	179.725	9831.997	41.222	0.000	42.579	-0.000	41.222	0.000	0.000	43.997	40.041	-37.695	MWD+IFR1+MS
13600.000	90.000	179.725	9831.997	41.828	0.000	42.984	-0.000	41.828	0.000	0.000	44.283	40.175	-35.136 I	MWD+IFR1+MS
13700.000	90.000	179.725	9831.997	42.440	0.000	43.399	-0.000	42.440	0.000	0.000	44.591	40.297	-32.719	MWD+IFR1+MS
13800.000	90.000	179.725	9831.997	43.057	0.000	43.823	-0.000	43.057	0.000	0.000	44.920	40.409	-30.464	MWD+IFR1+MS
13900.000	90.000	179.725	9831.997	43.680	0.000	44.257	-0.000	43.680	0.000	0.000	45.268	40.511	-28.382	MWD+IFR1+MS
14000.000	90.000	179.725	9831.997	44.308	0.000	44.699	-0.000	44.308	0.000	0.000	45.635	40.604	-26.474	MWD+IFR1+MS
14100.000	90.000	179.725	9831.997	44.941	0.000	45.150	-0.000	44.941	0.000	0.000	46.019	40.689	-24.733 I	MWD+IFR1+MS
14200.000	90.000	179.725	9831.997	45.579	0.000	45.609	-0.000	45.579	0.000	0.000	46.418	40.768	-23.151 I	MWD+IFR1+MS
14300.000	90.000	179.725	9831.997	46.221	0.000	46.077	-0.000	46.221	0.000	0.000	46.832	40.840	-21.715 I	MWD+IFR1+MS
14400.000	90.000	179.725	9831.997	46.868	0.000	46.552	-0.000	46.868	0.000	0.000	47.260	40.908	-20.413	MWD+IFR1+MS
14500.000	90.000	179.725	9831.997	47.518	0.000	47.035	-0.000	47.518	0.000	0.000	47.700	40.971	-19.232	MWD+IFR1+MS
14600.000	90.000	179.725	9831.997	48.173	0.000	47.526	-0.000	48.173	0.000	0.000	48.152	41.031	-18.159 I	MWD+IFR1+MS
14700.000	90.000	179.725	9831.997	48.832	0.000	48.024	-0.000	48.832	0.000	0.000	48.615	41.087	-17.183	MWD+IFR1+MS
14800.000	90.000	179.725	9831.997	49.494	0.000	48.528	-0.000	49.494	0.000	0.000	49.088	41.141	-16.293	MWD+IFR1+MS
14900.000	90.000	179.725	9831.997	50.160	0.000	49.040	-0.000	50.160	0.000	0.000	49.570	41.192	-15.481	MWD+IFR1+MS
15000.000	90.000	179.725	9831.997	50.829	0.000	49.558	-0.000	50.829	0.000	0.000	50.062	41.242	-14.737	MWD+IFR1+MS
15100.000	90.000	179.725	9831.997	51.501	0.000	50.082	-0.000	51.501	0.000	0.000	50.562	41.289	-14.055	MWD+IFR1+MS
15200.000	90.000	179.725	9831.997	52.177	0.000	50.612	-0.000	52.177	0.000	0.000	51.071	41.336	-13.428	MWD+IFR1+MS
15300.000	90.000	179.725	9831.997	52.855	0.000	51.149	-0.000	52.855	0.000	0.000	51.587	41.381	-12.849 I	MWD+IFR1+MS
15400.000	90.000	179.725	9831.997	53.537	0.000	51.691	-0.000	53.537	0.000	0.000	52.110	41.425	-12.315	MWD+IFR1+MS
15500.000	90.000	179.725	9831.997	54.221	0.000	52.239	-0.000	54.221	0.000	0.000	52.640	41.468	-11.821	MWD+IFR1+MS
15600.000	90.000	179.725	9831.997	54.908	0.000	52.792	-0.000	54.908	0.000	0.000	53.178	41.511	-11.362	MWD+IFR1+MS
15700.000	90.000	179.725	9831.997	55.598	0.000	53.351	-0.000	55.598	0.000	0.000	53.721	41.553	-10.935 I	MWD+IFR1+MS

15800.000	90.000	179.725	9831.997	56.290	0.000	53.914	-0.000	56.290	0.000	0.000	54.271	41.594	-10.538 I	MWD+IFR1+MS
15900.000	90.000	179.725	9831.997	56.984	0.000	54.482	-0.000	56.984	0.000	0.000	54.826	41.636	-10.167 I	MWD+IFR1+MS
16000.000	90.000	179.725	9831.997	57.681	0.000	55.056	-0.000	57.681	0.000	0.000	55.387	41.676	-9.819 I	MWD+IFR1+MS
16100.000	90.000	179.725	9831.997	58.380	0.000	55.634	-0.000	58.380	0.000	0.000	55.953	41.717	-9.494 I	MWD+IFR1+MS
16200.000	90.000	179.725	9831.997	59.081	0.000	56.216	-0.000	59.081	0.000	0.000	56.525	41.758	-9.189 I	MWD+IFR1+MS
16300.000	90.000	179.725	9831.997	59.784	0.000	56.803	-0.000	59.784	0.000	0.000	57.102	41.798	-8.902 i	MWD+IFR1+MS
16400.000	90.000	179.725	9831.997	60.490	0.000	57.394	-0.000	60.490	0.000	0.000	57.683	41.838	-8.632 I	MWD+IFR1+MS
16500.000	90.000	179.725	9831.997	61.197	0.000	57.989	-0.000	61.197	0.000	0.000	58.269	41.879	-8.377 I	MWD+IFR1+MS
16600.000	90.000	179.725	9831.997	61.906	0.000	58.587	-0.000	61.906	0.000	0.000	58.859	41.919	-8.137 I	MWD+IFR1+MS
16700.000	90.000	179.725	9831.997	62.617	0.000	59.190	-0.000	62.617	0.000	0.000	59.454	41.960	-7.909 I	MWD+IFR1+MS
16800.000	90.000	179.725	9831.997	63.329	0.000	59.797	-0.000	63.329	0.000	0.000	60.053	42.000	-7.694 I	MWD+IFR1+MS
16900.000	90.000	179.725	9831.997	64.044	0.000	60.407	-0.000	64.044	0.000	0.000	60.656	42.041	-7.490 I	MWD+IFR1+MS
17000.000	90.000	179.725	9831.997	64.759	0.000	61.021	-0.000	64.759	0.000	0.000	61.263	42.082	-7.296 I	MWD+IFR1+MS
17100.000	90.000	179.725	9831.997	65.477	0.000	61.638	-0.000	65.477	0.000	0.000	61.873	42.123	-7.111 I	MWD+IFR1+MS
17200.000	90.000	179.725	9831.997	66.196	0.000	62.258	-0.000	66.196	0.000	0.000	62.487	42.164	-6.936 I	MWD+IFR1+MS
17300.000	90.000	179.725	9831.997	66.916	0.000	62.881	-0.000	66.916	0.000	0.000	63.105	42.206	-6.769 I	MWD+IFR1+MS
17400.000	90.000	179.725	9831.997	67.638	0.000	63.508	-0.000	67.638	0.000	0.000	63.726	42.248	-6.610 I	MWD+IFR1+MS
17500.000	90.000	179.725	9831.997	68.362	0.000	64.138	-0.000	68.362	0.000	0.000	64.350	42.290	-6.458 I	MWD+IFR1+MS
17600.000	90.000	179.725	9831.997	69.086	0.000	64.770	-0.000	69.086	0.000	0.000	64.977	42.332	-6.313 I	MWD+IFR1+MS
17700.000	90.000	179.725	9831.997	69.812	0.000	65.406	-0.000	69.812	0.000	0.000	65.608	42.374	-6.174 i	MWD+IFR1+MS
17800.000	90.000	179.725	9831.997	70.540	0.000	66.044	-0.000	70.540	0.000	0.000	66.241	42.417	-6.041 I	MWD+IFR1+MS
17900.000	90.000	179.725	9831.997	71.268	0.000	66.685	-0.000	71.268	0.000	0.000	66.878	42.461	-5.914 i	MWD+IFR1+MS
18000.000	90.000	179.725	9831.997	71.998	0.000	67.328	-0.000	71.998	0.000	0.000	67.517	42.504	-5.792 I	MWD+IFR1+MS
18100.000	90.000	179.725	9831.997	72.728	0.000	67.974	-0.000	72.728	0.000	0.000	68.159	42.548	-5.675 I	MWD+IFR1+MS
18200.000	90.000	179.725	9831.997	73.460	0.000	68.623	-0.000	73.460	0.000	0.000	68.803	42.592	-5.562 I	MWD+IFR1+MS
18300.000	90.000	179.725	9831.997	74.193	0.000	69.273	-0.000	74.193	0.000	0.000	69.450	42.637	-5.454 I	MWD+IFR1+MS
18400.000	90.000	179.725	9831.997	74.927	0.000	69.927	-0.000	74.927	0.000	0.000	70.099	42.682	-5.350 I	MWD+IFR1+MS
18500.000	90.000	179.725	9831.997	75.662	0.000	70.582	-0.000	75.662	0.000	0.000	70.751	42.727	-5.250 I	MWD+IFR1+MS
18600.000	90.000	179.725	9831.997	76.398	0.000	71.240	-0.000	76.398	0.000	0.000	71.405	42.773	-5.154 I	MWD+IFR1+MS
18700.000	90.000	179.725	9831.997	77.135	0.000	71.899	-0.000	77.135	0.000	0.000	72.062	42.819	-5.061 I	MWD+IFR1+MS
18800.000	90.000	179.725	9831.997	77.873	0.000	72.561	-0.000	77.873	0.000	0.000	72.720	42.865	-4.972 i	MWD+IFR1+MS
18900.000	90.000	179.725	9831.997	78.612	0.000	73.225	-0.000	78.612	0.000	0.000	73.381	42.912	-4.886 I	MWD+IFR1+MS
19000.000	90.000	179.725	9831.997	79.352	0.000	73.891	-0.000	79.352	0.000	0.000	74.044	42.959	-4.802 I	MWD+IFR1+MS

19100.000	90.000	179.725	9831.997	80.092	0.000	74.559	-0.000	80.092	0.000	0.000	74.709	43.006	-4 722	MWD+IFR1+MS
19200.000	90.000		9831.997	80.834			-0.000	80.834		0.000	75.376	43.054		MWD+JFR1+MS
19300.000	90.000		9831.997	81.576			-0.000	81.576		0.000	76.044	43.103		MWD+IFR1+MS
19400.000	90.000		9831.997	82.319			-0.000	82.319		0.000	76.715	43.151		MWD+IFR1+MS
19500.000	90.000		9831.997	83.063			-0.000	83.063		0.000	77.387	43.201		MWD+IFR1+MS
19600.000	90.000		9831.997	83.807				83.807		0.000	78.061	43.250		MWD+IFR1+MS
19700.000	90.000		9831.997	84.553			-0.000	84.553		0.000	78.737	43.300		MWD+IFR1+MS
19800.000	90.000		9831.997	85.299			-0.000	85.299		0.000	79.415	43.350		MWD+IFR1+MS
19900.000	90.000			86.045				86.045		0.000	80.094	43.401		MWD+IFR1+MS
20000.000	90.000			86.793			-0.000	86.793		0.000	80.775	43.452		MWD+IFR1+MS
20100.000	90.000		9831.997	87.541			-0.000	87.541		0.000	81.457	43.504		MWD+IFR1+MS
20200.000	90.000	179.725	9831.997	88.289	0.000	82.016	-0.000	88.289	0.000	0.000	82.140	43.556	-3.990	MWD+IFR1+MS
20300.000	90.000	179.725	9831.997	89.038	0.000	82.704	-0.000	89.038	0.000	0.000	82.826	43.608	-3.935	MWD+IFR1+MS
20400.000	90.000	179.725	9831.997	89.788	0.000	83.392	-0.000	89.788	0.000	0.000	83.512	43.661	-3.882	MWD+IFR1+MS
20500.000	90.000	179.725	9831.997	90.539	0.000	84.082	-0.000	90.539	0.000	0.000	84.200	43.714	-3.830	MWD+IFR1+MS
20600.000	90.000	179.725	9831.997	91.290	0.000	84.773	-0.000	91.290	0.000	0.000	84.890	43.768	-3.779	MWD+IFR1+MS
20700.000	90.000	179.725	9831.997	92.041	0.000	85.466	-0.000	92.041	0.000	0.000	85.580	43.822	-3.730	MWD+IFR1+MS
20800.000	90.000	179.725	9831.997	92.793	0.000	86.159	-0.000	92.793	0.000	0.000	86.272	43.876	-3.682	MWD+IFR1+MS
20900.000	90.000	179.725	9831.997	93.546	0.000	86.854	-0.000	93.546	0.000	0.000	86.965	43.931	-3.635	MWD+IFR1+MS
21000.000	90.000	179.725	9831.997	94.299	0.000	87.550	-0.000	94.299	0.000	0.000	87.660	43.986	-3.590	MWD+IFR1+MS
21100.000	90.000	179.725	9831.997	95.053	0.000	88.247	-0.000	95.053	0.000	0.000	88.355	44.042	-3.546	MWD+IFR1+MS
21200.000	90.000	179.725	9831.997	95.807	0.000	88.946	-0.000	95.807	0.000	0.000	89.052	44.098	-3.503	MWD+IFR1+MS
21300.000	90.000	179.725	9831.997	96.562	0.000	89.645	-0.000	96.562	0.000	0.000	89.750	44.154	-3.461	MWD+IFR1+MS
21400.000	90.000	179.725	9831.997	97.317	0.000	90.345	-0.000	97.317	0.000	0.000	90.449	44.211	-3.420	MWD+IFR1+MS
21500.000	90.000	179.725	9831.997	98.073	0.000	91.047	-0.000	98.073	0.000	0.000	91.149	44.268	-3.380	MWD+IFR1+MS
21600.000	90.000	179.725	9831.997	98.829	0.000	91.750	-0.000	98.829	0.000	0.000	91.850	44.326	-3.341	MWD+IFR1+MS
21700.000	90.000	179.725	9831.997	99.585	0.000	92.453	-0.000	99.585	0.000	0.000	92.553	44.384	-3.303	MWD+IFR1+MS
21800.000	90.000	179.725	9831.997	100.342	0.000	93.158	-0.000	100.342	0.000	0.000	93.256	44.443	-3.266	MWD+IFR1+MS
21900.000	90.000	179.725	9831.997	101.100	0.000	93.863	-0.000	101.100	0.000	0.000	93.960	44.502	-3.229	MWD+IFR1+MS
22000.000	90.000	179.725	9831.997	101.858	0.000	94.570	-0.000	101.858	0.000	0.000	94.665	44.561	-3.194	MWD+IFR1+MS
22100.000	90.000	179.725	9831.997	102.616	0.000	95.277	-0.000	102.616	0.000	0.000	95.371	44.621	-3.159	MWD+IFR1+MS
22200.000	90.000	179.725	9831.997	103.374	0.000	95.985	-0.000	103.374	0.000	0.000	96.078	44.681	-3.126	MWD+IFR1+MS
22300.000	90.000	179.725	9831.997	104.133	0.000	96.694	-0.000	104.133	0.000	0.000	96.786	44.742	-3.093	MWD+IFR1+MS

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22400.000	90.000	179.725	9831.997	104.893	0.000	97.404	-0.000	104.893	0.000	0.000	97.495	44.802	-3.060 N	MWD+IFR1+MS
22500.000	90.000	179.725	9831.997	105.652	0.000	98.115	-0.000	105.652	0.000	0.000	98.205	44.864	-3.029 N	MWD+IFR1+MS
22600.000	90.000	179.725	9831.997	106.413	0.000	98.827	-0.000	106.413	0.000	0.000	98.915	44.926	-2.998 N	MWD+IFR1+MS
22700.000	90.000	179.725	9831.997	107.173	0.000	99.539	-0.000	107.173	0.000	0.000	99.627	44.988	-2.968 N	MWD+IFR1+MS
22800.000	90.000	179.725	9831.997	107.934	0.000	100.252	-0.000	107.934	0.000	0.000	100.339	45.050	-2.938 N	MWD+IFR1+MS
22900.000	90.000	179.725	9831.997	108.695	0.000	100.966	-0.000	108.695	0.000	0.000	101.052	45.113	-2.909 N	MWD+IFR1+MS
23000.000	90.000	179.725	9831.997	109.456	0.000	101.681	-0.000	109.456	0.000	0.000	101.765	45.177	-2.881 N	MWD+IFR1+MS
23100.000	90.000	179.725	9831.997	110.218	0.000	102.396	-0.000	110.218	0.000	0.000	102.480	45.240	-2.853 N	MWD+IFR1+MS
23200.000	90.000	179.725	9831.997	110.980	0.000	103.112	-0.000	110.980	0.000	0.000	103.195	45.305	-2.826 M	MWD+IFR1+MS
23300.000	90.000	179.725	9831.997	111.743	0.000	103.829	-0.000	111.743	0.000	0.000	103.911	45.369	-2.799 N	MWD+IFR1+MS
23400.000	90.000	179.725	9831.997	112.506	0.000	104.547	-0.000	112.506	0.000	0.000	104.627	45.434	-2.773 N	MWD+IFR1+MS
23500.000	90.000	179.725	9831.997	113.269	0.000	105.265	-0.000	113.269	0.000	0.000	105.345	45.499	-2.747 N	MWD+IFR1+MS
23600.000	90.000	179.725	9831.997	114.032	0.000	105.984	-0.000	114.032	0.000	0.000	106.063	45.565	-2.722 M	MWD+IFR1+MS
23700.000	90.000	179.725	9831.997	114.796	0.000	106.703	-0.000	114.796	0.000	0.000	106.781	45.631	-2.698 N	MWD+IFR1+MS
23800.000	90.000	179.725	9831.997	115.560	0.000	107.424	-0.000	115.560	0.000	0.000	107.501	45.698	-2.674 N	MWD+IFR1+MS
23900.000	90.000	179.725	9831.997	116.324	0.000	108.144	-0.000	116.324	0.000	0.000	108.221	45.765	-2.650 N	MWD+IFR1+MS
24000.000	90.000	179.725	9831.997	117.088	0.000	108.866	-0.000	117.088	0.000	0.000	108.941	45.832	-2.627 N	MWD+IFR1+MS
24100.000	90.000	179.725	9831.997	117.853	0.000	109.588	-0.000	117.853	0.000	0.000	109.663	45.900	-2.604 N	MWD+IFR1+MS
24200.000	90.000	179.725	9831.997	118.618	0.000	110.310	-0.000	118.618	0.000	0.000	110.384	45.968	-2.582 N	MWD+IFR1+MS
24300.000	90.000	179.725	9831.997	119.383	0.000	111.034	-0.000	119.383	0.000	0.000	111.107	46.036	-2.560 N	MWD+IFR1+MS
24400.000	90.000	179.725	9831.997	120.149	0.000	111.757	-0.000	120.149	0.000	0.000	111.830	46.105	-2.538 N	MWD+IFR1+MS
24500.000	90.000	179.725	9831.997	120.915	0.000	112.482	-0.000	120.915	0.000	0.000	112.553	46.174	-2.517 N	MWD+IFR1+MS
24600.000	90.000	179.725	9831.997	121.681	0.000	113.206	-0.000	121.681	0.000	0.000	113.277	46.244	-2.497 N	MWD+IFR1+MS
24700.000	90.000	179.725	9831.997	122.447	0.000	113.932	-0.000	122.447	0.000	0.000	114.002	46.313	-2.476 N	MWD+IFR1+MS
24800.000	90.000	179.725	9831.997	123.213	0.000	114.658	-0.000	123.213	0.000	0.000	114.727	46.384	-2.456 N	MWD+IFR1+MS
24900.000	90.000	179.725	9831.997	123.980	0.000	115.384	-0.000	123.980	0.000	0.000	115.453	46.454	-2.437 N	MWD+IFR1+MS
25000.000	90.000	179.725	9831.997	124.747	0.000	116.111	-0.000	124.747	0.000	0.000	116.179	46.526	-2.417 N	MWD+IFR1+MS
25100.000	90.000	179.725	9831.997	125.514	0.000	116.838	-0.000	125.514	0.000	0.000	116.906	46.597	-2.398 N	MWD+IFR1+MS
25200.000	90.000	179.725	9831.997	126.281	0.000	117.566	-0.000	126.281	0.000	0.000	117.633	46.669	-2.380 M	MWD+IFR1+MS
25300.000	90.000	179.725	9831.997	127.049	0.000	118.295	-0.000	127.049	0.000	0.000	118.361	46.741	-2.361 N	MWD+IFR1+MS
25400.000	90.000	179.725	9831.997	127.817	0.000	119.023	-0.000	127.817	0.000	0.000	119.089	46.813	-2.343 N	MWD+IFR1+MS
25430.998	90.000	179.725	9831.997	128.054	0.000	119.249	-0.000	128.054	0.000	0.000	119.314	46.836	-2.338 N	MWD+IFR1+MS

Plan Targets	Poker Lake Unit 19 DTD South 220H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 12	10198.72	440304.50	627098.50	6644.00 RECTANGLE
LTP 12	25381.05	424640.50	627173.80	6644.00 RECTANGLE
BHL 12	25431.05	424590.50	627173.90	6644.00 RECTANGLE

ALL DIMENSIONS APPROXIMA

CACTUS WELLHEAD LLC

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

	XTO ENERGY INDELAWARE BASI	•
DRAWN	VJK	31MAR2
APPRV		

DRAWING NO. HBE0000479

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY SUTHORIZED BY CACTUS WELLHEAD, LLC.

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

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

Background

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

Supporting Documentation

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



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

0.18(1)	Date of the same	Pressure Test-	-High Pressureac
Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, plind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
Annular(s) and VBR(s) shall be pre	during the evaluation period. The passure tested on the largest and sm	pressure shall not decrease below the lallest OD drill pipe to be used in well in the 21 days, pressure testing is regal is broken.	program.

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

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

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

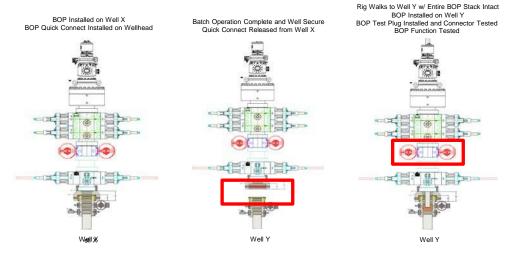
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- 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



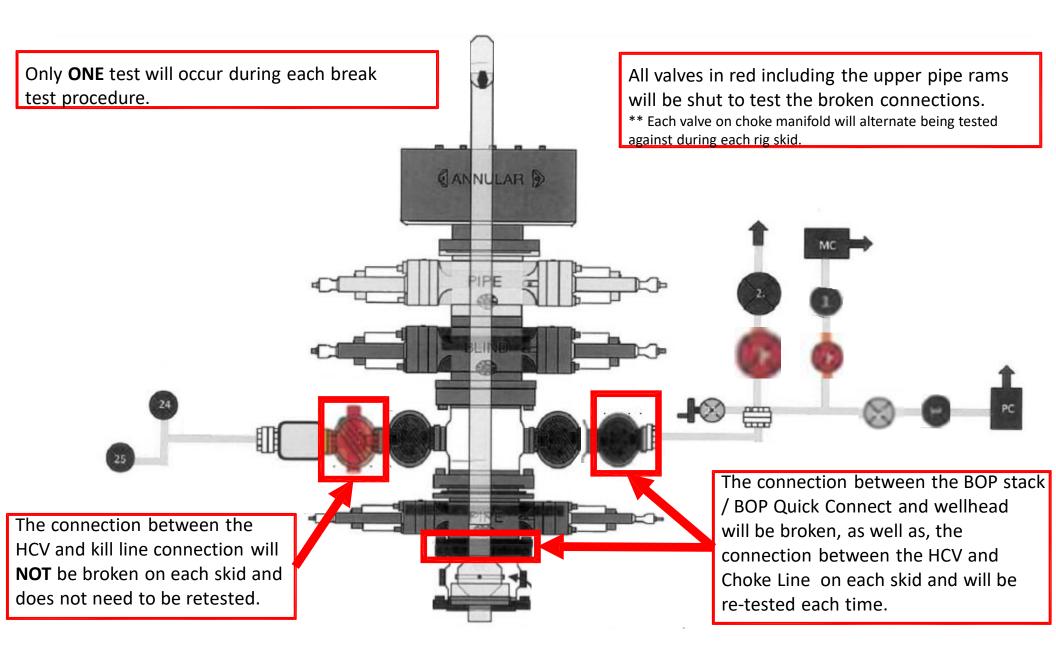
Summary

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

CONDITIONS

Action 340746

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	340746
	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.	5/7/2024