

Well Name: POKER LAKE UNIT 21 DTD	Well Location: T24S / R30E / SEC 21 / NENW / 32.20938 / -103.889401	County or Parish/State: EDDY / NM
Well Number: 181H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMLC0068430	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001553382	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2784394

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 04/10/2024	Time Sundry Submitted: 02:48
Date proposed operation will begin: 04/30/2024	

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include FTP, LTP, BHL, Casing sizes, Cement, Proposed total Depth, and formation (Pool). FROM: TO: FTP: 386' FNL & 942' FWL OF SECTION 21-T24S-R30E 100' FNL & 1672' FWL OF SECTION 21-T24S-R30E LTP: 329' FNL & 890' FWL OF SECTION 33-T23S-R30E 2541' FNL & 1672' FWL OF SECTION 33-T24S-R30E BHL: 200' FNL & 890' FWL OF SECTION 33-T23S-R30E 2631' FNL & 1672' FWL OF SECTION 33-T24S-R30E The proposed total depth is changing from 33708' MD; 11987' TVD (Wolfcamp) to 23027' MD; 10231' TVD (Bone Spring 3 Shale). See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Plan, MBS, BOP Variance and Well Control Plan.

NOI Attachments

Procedure Description

PLU_21_DTD_181H_Sundry_Documents_20240410144759.pdf

Received by OCD: 7/1/2024 3:36:27 PM

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Lease Number: NMLC0068430	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number: 3001553382	Operator: XTO PERMIAN OPERATING LLC	

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: APR 10, 2024 02:48 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: 07/01/2024
Signature: Chris Walls	

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

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

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Additional Remarks

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

Location of Well

0. SHL: NENW / 396 FNL / 1696 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.20938 / LONG: -103.889401 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 386 FNL / 942 FWL / TWSP: 24S / RANGE: 30E / SECTION: 21 / LAT: 32.2094 / LONG: -103.891839 (TVD: 11987 feet, MD: 12360 feet)

BHL: NWNW / 200 FNL / 890 FWL / TWSP: 23S / RANGE: 30E / SECTION: 33 / LAT: 32.268083 / LONG: -103.892005 (TVD: 11987 feet, MD: 33708 feet)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☒ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

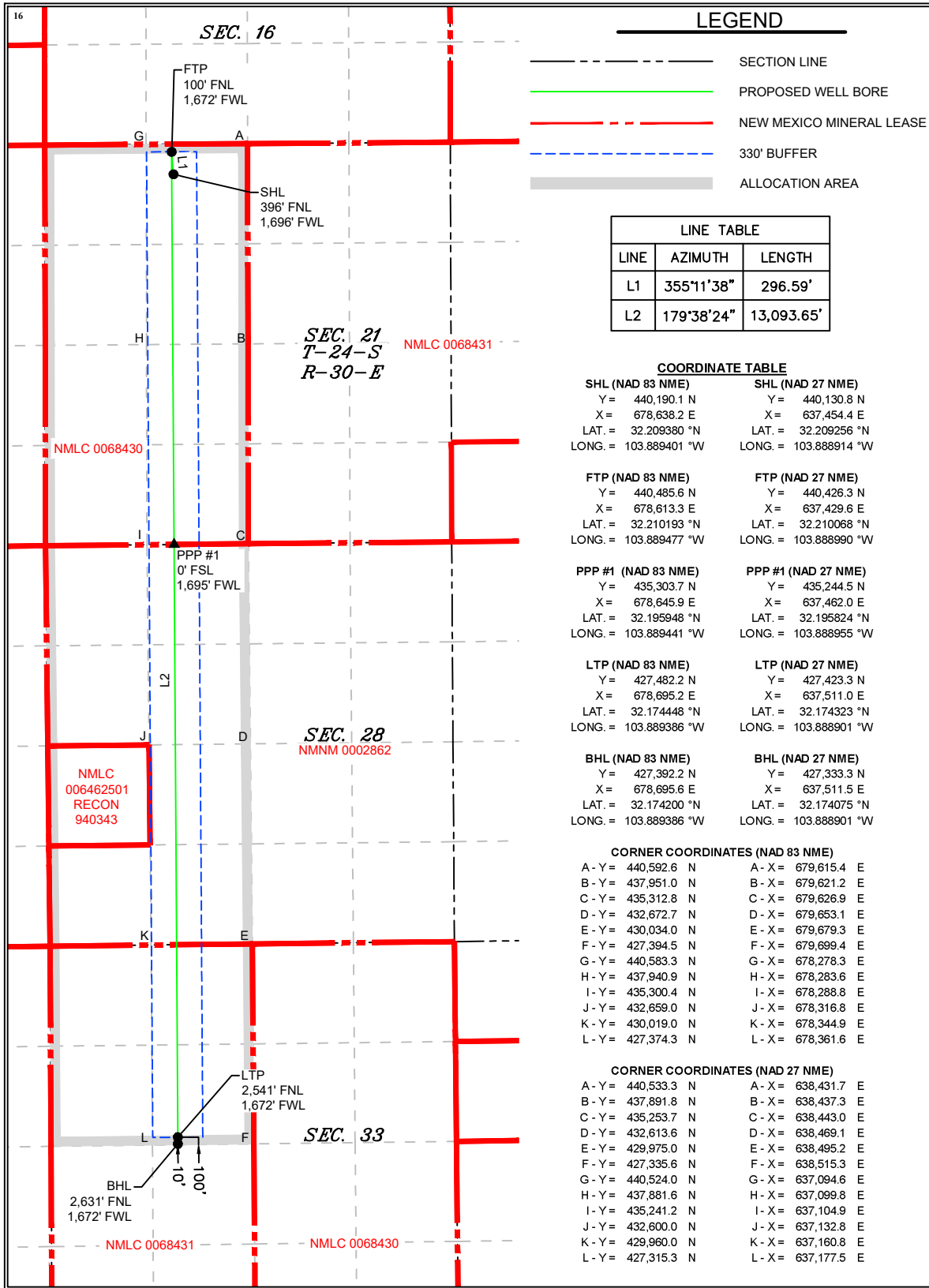
¹ API Number 30-015-53382	² Pool Code 97753	³ Pool Name WILDCAT S243006B;LWR BONE SPRING
⁴ Property Code 333571	⁵ Property Name POKER LAKE UNIT 21 DTD	⁶ Well Number 181H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,327'

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	24S	30E		396	NORTH	1,696	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	24S	30E		2,631	NORTH	1,672	WEST	EDDY

¹² Dedicated Acres 800.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Manish Saini 03/27/2024
Signature Date

Manish Saini
Printed Name

manish.saini@exxonmobil.com
E-mail Address

18 SURVEYOR CERTIFICATION

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

3/26/2024
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number

RP 618.013003.07-46

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
Latitude					Longitude				NAD

First Take Point (FTP)

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

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					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.
POKER LAKE UNIT 21 DTD 181H
Projected TD: 23027' MD / 10231' TVD
SHL: 396' FNL & 1696' FWL , Section 21, T24S, R30E
BHL: 2631' FNL & 1672' FWL , Section 33, T23S, 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	914'	Water
Top of Salt	1317'	Water
Base of Salt	3510'	Water
Delaware	3704'	Water
Brushy Canyon	6250'	Water/Oil/Gas
Bone Spring	7574'	Water
Avalon	8267'	Water/Oil/Gas
1st Bone Spring	8283'	Water/Oil/Gas
2nd Bone Spring	8868'	Water/Oil/Gas
3rd Bone Spring	9694'	Water/Oil/Gas
Target/Land Curve	10231'	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 @ 1014' (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 9325' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 23027 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9025 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1014'	9.625	40	J-55	BTC	New	1.78	6.21	15.53
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.98	2.92	2.01
8.75	4000' – 9325'	7.625	29.7	HC L-80	Flush Joint	New	2.17	2.56	2.57
6.75	0' – 9225'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.27	2.14
6.75	9225' - 23027'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.05	2.14

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

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.

4. Cement Program

Surface Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 1014'

Lead: 230 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 +/- 9325'

1st Stage

Optional Lead: 340 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 280 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6250

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: 700 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 (6250') 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 +/- 23027'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9025 feet

Tail: 970 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9525 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 3176 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 nipping up on the 9.625, 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each week.

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1014'	12.25	FW/Native	8.4-8.9	35-40	NC
1014' - 9325'	8.75	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
9325' - 23027'	6.75	OBM	10.2-10.7	50-60	NC - 20

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

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. 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 5427 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 21 DTD South 181H

Measured Depth:	23027.15 ft
TVD RKB:	10231.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	440130.80 ft
Easting:	637454.40 ft
RKB:	3359.00 ft
Ground Level:	3327.00 ft
North Reference:	Grid
Convergence Angle:	0.24 Deg

Plan SectionsPoker Lake Unit 21 DTD South 181H

Measured	TVD				Build		Turn	Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
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	
1302.03	4.04	355.20	1301.87	7.10	-0.60	2.00	0.00	2.00	
5308.26	4.04	355.20	5298.13	288.40	-24.20	0.00	0.00	0.00	
5510.29	0.00	0.00	5500.00	295.50	-24.80	-2.00	0.00	2.00	
9525.09	0.00	0.00	9514.80	295.50	-24.80	0.00	0.00	0.00	
10650.09	90.00	179.64	10231.00	-420.68	-20.31	8.00	0.00	8.00	
22937.15	90.00	179.64	10231.00	-12707.50	56.67	0.00	0.00	0.00	LTP 3
23027.15	90.00	179.64	10231.00	-12797.50	57.24	0.00	0.00	0.00	BHL 3

Position UncertaintyPoker Lake Unit 21 DTD South 181H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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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	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.443	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	2.485	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	2.531	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	2.580	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	2.634	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	355.203	1199.980	4.888	0.000	4.662	0.000	2.690	0.000	0.000	5.266	4.232	123.797	MWD+IFR1+MS
1302.033	4.041	355.203	1301.866	5.732	0.000	5.025	0.000	2.751	0.000	0.000	6.040	4.661	114.451	MWD+IFR1+MS
1400.000	4.041	355.203	1399.589	6.194	0.000	5.371	0.000	2.813	0.000	0.000	6.502	5.003	113.256	MWD+IFR1+MS
1500.000	4.041	355.203	1499.340	6.515	0.000	5.725	0.000	2.878	0.000	0.000	6.828	5.356	113.724	MWD+IFR1+MS
1600.000	4.041	355.203	1599.092	6.840	0.000	6.081	0.000	2.947	0.000	0.000	7.159	5.710	114.166	MWD+IFR1+MS
1700.000	4.041	355.203	1698.843	7.169	0.000	6.437	0.000	3.017	0.000	0.000	7.492	6.064	114.573	MWD+IFR1+MS
1800.000	4.041	355.203	1798.595	7.501	0.000	6.793	0.000	3.090	0.000	0.000	7.828	6.419	114.947	MWD+IFR1+MS
1900.000	4.041	355.203	1898.346	7.836	0.000	7.150	0.000	3.165	0.000	0.000	8.167	6.774	115.293	MWD+IFR1+MS
2000.000	4.041	355.203	1998.098	8.173	0.000	7.507	0.000	3.242	0.000	0.000	8.507	7.130	115.612	MWD+IFR1+MS
2100.000	4.041	355.203	2097.849	8.512	0.000	7.864	0.000	3.320	0.000	0.000	8.849	7.485	115.908	MWD+IFR1+MS
2200.000	4.041	355.203	2197.600	8.853	0.000	8.221	0.000	3.401	0.000	0.000	9.192	7.841	116.183	MWD+IFR1+MS
2300.000	4.041	355.203	2297.352	9.195	0.000	8.578	0.000	3.483	0.000	0.000	9.537	8.198	116.437	MWD+IFR1+MS
2400.000	4.041	355.203	2397.103	9.539	0.000	8.936	0.000	3.566	0.000	0.000	9.883	8.554	116.674	MWD+IFR1+MS
2500.000	4.041	355.203	2496.855	9.884	0.000	9.293	0.000	3.652	0.000	0.000	10.230	8.911	116.895	MWD+IFR1+MS
2600.000	4.041	355.203	2596.606	10.230	0.000	9.651	0.000	3.738	0.000	0.000	10.578	9.268	117.100	MWD+IFR1+MS
2700.000	4.041	355.203	2696.358	10.578	0.000	10.009	0.000	3.826	0.000	0.000	10.926	9.625	117.291	MWD+IFR1+MS
2800.000	4.041	355.203	2796.109	10.926	0.000	10.367	0.000	3.916	0.000	0.000	11.276	9.982	117.469	MWD+IFR1+MS
2900.000	4.041	355.203	2895.860	11.275	0.000	10.725	0.000	4.007	0.000	0.000	11.626	10.339	117.636	MWD+IFR1+MS
3000.000	4.041	355.203	2995.612	11.625	0.000	11.083	0.000	4.099	0.000	0.000	11.977	10.697	117.792	MWD+IFR1+MS

3100.000	4.041	355.203	3095.363	11.976	0.000	11.442	0.000	4.192	0.000	0.000	12.329	11.054	117.937	MWD+IFR1+MS
3200.000	4.041	355.203	3195.115	12.327	0.000	11.800	0.000	4.287	0.000	0.000	12.681	11.412	118.074	MWD+IFR1+MS
3300.000	4.041	355.203	3294.866	12.679	0.000	12.158	0.000	4.384	0.000	0.000	13.033	11.770	118.201	MWD+IFR1+MS
3400.000	4.041	355.203	3394.618	13.032	0.000	12.517	0.000	4.481	0.000	0.000	13.386	12.128	118.320	MWD+IFR1+MS
3500.000	4.041	355.203	3494.369	13.385	0.000	12.875	0.000	4.580	0.000	0.000	13.740	12.486	118.432	MWD+IFR1+MS
3600.000	4.041	355.203	3594.120	13.738	0.000	13.234	0.000	4.681	0.000	0.000	14.093	12.844	118.536	MWD+IFR1+MS
3700.000	4.041	355.203	3693.872	14.092	0.000	13.592	0.000	4.783	0.000	0.000	14.448	13.202	118.634	MWD+IFR1+MS
3800.000	4.041	355.203	3793.623	14.446	0.000	13.951	0.000	4.886	0.000	0.000	14.802	13.560	118.726	MWD+IFR1+MS
3900.000	4.041	355.203	3893.375	14.801	0.000	14.309	0.000	4.991	0.000	0.000	15.157	13.918	118.812	MWD+IFR1+MS
4000.000	4.041	355.203	3993.126	15.156	0.000	14.668	0.000	5.097	0.000	0.000	15.512	14.277	118.892	MWD+IFR1+MS
4100.000	4.041	355.203	4092.878	15.511	0.000	15.027	0.000	5.205	0.000	0.000	15.867	14.635	118.968	MWD+IFR1+MS
4200.000	4.041	355.203	4192.629	15.867	0.000	15.385	0.000	5.314	0.000	0.000	16.223	14.994	119.038	MWD+IFR1+MS
4300.000	4.041	355.203	4292.380	16.223	0.000	15.744	0.000	5.425	0.000	0.000	16.579	15.352	119.104	MWD+IFR1+MS
4400.000	4.041	355.203	4392.132	16.579	0.000	16.103	0.000	5.538	0.000	0.000	16.935	15.711	119.165	MWD+IFR1+MS
4500.000	4.041	355.203	4491.883	16.935	0.000	16.461	0.000	5.652	0.000	0.000	17.291	16.069	119.223	MWD+IFR1+MS
4600.000	4.041	355.203	4591.635	17.292	0.000	16.820	0.000	5.768	0.000	0.000	17.647	16.428	119.276	MWD+IFR1+MS
4700.000	4.041	355.203	4691.386	17.649	0.000	17.179	0.000	5.886	0.000	0.000	18.004	16.787	119.326	MWD+IFR1+MS
4800.000	4.041	355.203	4791.138	18.006	0.000	17.538	0.000	6.005	0.000	0.000	18.360	17.145	119.373	MWD+IFR1+MS
4900.000	4.041	355.203	4890.889	18.363	0.000	17.897	0.000	6.127	0.000	0.000	18.717	17.504	119.416	MWD+IFR1+MS
5000.000	4.041	355.203	4990.640	18.720	0.000	18.256	0.000	6.250	0.000	0.000	19.074	17.863	119.456	MWD+IFR1+MS
5100.000	4.041	355.203	5090.392	19.078	0.000	18.614	0.000	6.375	0.000	0.000	19.432	18.222	119.493	MWD+IFR1+MS
5200.000	4.041	355.203	5190.143	19.436	0.000	18.973	0.000	6.501	0.000	0.000	19.789	18.581	119.527	MWD+IFR1+MS
5308.260	4.041	355.203	5298.134	19.825	0.000	19.364	0.000	6.641	0.000	0.000	20.179	18.969	119.592	MWD+IFR1+MS
5400.000	2.206	355.203	5389.734	20.185	0.000	19.692	0.000	6.761	0.000	0.000	20.536	19.299	119.064	MWD+IFR1+MS
5500.000	0.206	355.203	5489.707	20.630	0.000	20.048	0.000	6.892	0.000	0.000	20.988	19.669	117.195	MWD+IFR1+MS
5510.293	0.000	0.000	5500.000	20.755	0.000	19.987	0.000	6.906	0.000	0.000	21.023	19.705	117.182	MWD+IFR1+MS
5600.000	0.000	0.000	5589.707	21.063	0.000	20.302	0.000	7.023	0.000	0.000	21.328	20.023	117.157	MWD+IFR1+MS
5700.000	0.000	0.000	5689.707	21.411	0.000	20.659	0.000	7.157	0.000	0.000	21.678	20.379	117.287	MWD+IFR1+MS
5800.000	0.000	0.000	5789.707	21.761	0.000	21.017	0.000	7.292	0.000	0.000	22.029	20.736	117.436	MWD+IFR1+MS
5900.000	0.000	0.000	5889.707	22.110	0.000	21.375	0.000	7.430	0.000	0.000	22.380	21.092	117.581	MWD+IFR1+MS
6000.000	0.000	0.000	5989.707	22.460	0.000	21.733	0.000	7.569	0.000	0.000	22.732	21.449	117.723	MWD+IFR1+MS
6100.000	0.000	0.000	6089.707	22.811	0.000	22.091	0.000	7.711	0.000	0.000	23.084	21.805	117.861	MWD+IFR1+MS
6200.000	0.000	0.000	6189.707	23.161	0.000	22.449	0.000	7.856	0.000	0.000	23.436	22.162	117.996	MWD+IFR1+MS

6300.000	0.000	0.000	6289.707	23.512	0.000	22.807	0.000	8.003	0.000	0.000	23.788	22.518	118.127	MWD+IFR1+MS
6400.000	0.000	0.000	6389.707	23.863	0.000	23.165	0.000	8.152	0.000	0.000	24.141	22.875	118.256	MWD+IFR1+MS
6500.000	0.000	0.000	6489.707	24.214	0.000	23.523	0.000	8.303	0.000	0.000	24.493	23.232	118.381	MWD+IFR1+MS
6600.000	0.000	0.000	6589.707	24.565	0.000	23.881	0.000	8.457	0.000	0.000	24.846	23.588	118.504	MWD+IFR1+MS
6700.000	0.000	0.000	6689.707	24.917	0.000	24.239	0.000	8.614	0.000	0.000	25.199	23.945	118.624	MWD+IFR1+MS
6800.000	0.000	0.000	6789.707	25.269	0.000	24.597	0.000	8.773	0.000	0.000	25.553	24.302	118.741	MWD+IFR1+MS
6900.000	0.000	0.000	6889.707	25.621	0.000	24.955	0.000	8.934	0.000	0.000	25.906	24.659	118.855	MWD+IFR1+MS
7000.000	0.000	0.000	6989.707	25.973	0.000	25.313	0.000	9.098	0.000	0.000	26.259	25.016	118.967	MWD+IFR1+MS
7100.000	0.000	0.000	7089.707	26.325	0.000	25.671	0.000	9.265	0.000	0.000	26.613	25.373	119.076	MWD+IFR1+MS
7200.000	0.000	0.000	7189.707	26.678	0.000	26.029	0.000	9.434	0.000	0.000	26.967	25.730	119.183	MWD+IFR1+MS
7300.000	0.000	0.000	7289.707	27.031	0.000	26.387	0.000	9.606	0.000	0.000	27.321	26.087	119.288	MWD+IFR1+MS
7400.000	0.000	0.000	7389.707	27.383	0.000	26.745	0.000	9.780	0.000	0.000	27.675	26.444	119.390	MWD+IFR1+MS
7500.000	0.000	0.000	7489.707	27.736	0.000	27.104	0.000	9.957	0.000	0.000	28.029	26.801	119.490	MWD+IFR1+MS
7600.000	0.000	0.000	7589.707	28.089	0.000	27.462	0.000	10.137	0.000	0.000	28.383	27.158	119.588	MWD+IFR1+MS
7700.000	0.000	0.000	7689.707	28.443	0.000	27.820	0.000	10.319	0.000	0.000	28.738	27.515	119.685	MWD+IFR1+MS
7800.000	0.000	0.000	7789.707	28.796	0.000	28.178	0.000	10.504	0.000	0.000	29.092	27.872	119.779	MWD+IFR1+MS
7900.000	0.000	0.000	7889.707	29.149	0.000	28.536	0.000	10.692	0.000	0.000	29.447	28.229	119.871	MWD+IFR1+MS
8000.000	0.000	0.000	7989.707	29.503	0.000	28.894	0.000	10.882	0.000	0.000	29.801	28.587	119.961	MWD+IFR1+MS
8100.000	0.000	0.000	8089.707	29.857	0.000	29.252	0.000	11.075	0.000	0.000	30.156	28.944	120.049	MWD+IFR1+MS
8200.000	0.000	0.000	8189.707	30.211	0.000	29.611	0.000	11.271	0.000	0.000	30.511	29.301	120.136	MWD+IFR1+MS
8300.000	0.000	0.000	8289.707	30.564	0.000	29.969	0.000	11.470	0.000	0.000	30.866	29.658	120.221	MWD+IFR1+MS
8400.000	0.000	0.000	8389.707	30.919	0.000	30.327	0.000	11.672	0.000	0.000	31.221	30.016	120.304	MWD+IFR1+MS
8500.000	0.000	0.000	8489.707	31.273	0.000	30.685	0.000	11.876	0.000	0.000	31.576	30.373	120.386	MWD+IFR1+MS
8600.000	0.000	0.000	8589.707	31.627	0.000	31.043	0.000	12.084	0.000	0.000	31.931	30.730	120.466	MWD+IFR1+MS
8700.000	0.000	0.000	8689.707	31.981	0.000	31.402	0.000	12.294	0.000	0.000	32.287	31.088	120.545	MWD+IFR1+MS
8800.000	0.000	0.000	8789.707	32.336	0.000	31.760	0.000	12.507	0.000	0.000	32.642	31.445	120.622	MWD+IFR1+MS
8900.000	0.000	0.000	8889.707	32.690	0.000	32.118	0.000	12.722	0.000	0.000	32.997	31.802	120.698	MWD+IFR1+MS
9000.000	0.000	0.000	8989.707	33.045	0.000	32.476	0.000	12.941	0.000	0.000	33.353	32.160	120.772	MWD+IFR1+MS
9100.000	0.000	0.000	9089.707	33.399	0.000	32.835	0.000	13.163	0.000	0.000	33.708	32.517	120.845	MWD+IFR1+MS
9200.000	0.000	0.000	9189.707	33.754	0.000	33.193	0.000	13.387	0.000	0.000	34.064	32.875	120.916	MWD+IFR1+MS
9300.000	0.000	0.000	9289.707	34.109	0.000	33.551	0.000	13.614	0.000	0.000	34.420	33.232	120.987	MWD+IFR1+MS
9400.000	0.000	0.000	9389.707	34.464	0.000	33.909	0.000	13.845	0.000	0.000	34.776	33.590	121.056	MWD+IFR1+MS
9500.000	0.000	0.000	9489.707	34.819	0.000	34.268	0.000	14.078	0.000	0.000	35.131	33.947	121.123	MWD+IFR1+MS

9525.093	0.000	0.000	9514.800	34.907	0.000	34.356	0.000	14.137	0.000	0.000	35.219	34.037	121.114	MWD+IFR1+MS
9600.000	5.993	179.641	9589.570	34.980	0.000	34.612	-0.000	14.314	0.000	0.000	35.533	34.309	119.250	MWD+IFR1+MS
9700.000	13.993	179.641	9687.973	35.384	0.000	34.919	-0.000	14.615	0.000	0.000	36.614	34.720	108.310	MWD+IFR1+MS
9800.000	21.993	179.641	9783.006	35.513	0.000	35.212	-0.000	15.099	0.000	0.000	37.890	35.056	102.952	MWD+IFR1+MS
9900.000	29.993	179.641	9872.818	35.123	0.000	35.485	-0.000	15.821	0.000	0.000	39.018	35.343	100.691	MWD+IFR1+MS
10000.000	37.993	179.641	9955.662	34.285	0.000	35.736	-0.000	16.810	0.000	0.000	39.963	35.598	99.586	MWD+IFR1+MS
10100.000	45.993	179.641	10029.924	33.095	0.000	35.964	-0.000	18.061	0.000	0.000	40.715	35.824	99.041	MWD+IFR1+MS
10200.000	53.993	179.641	10094.161	31.679	0.000	36.166	-0.000	19.536	0.000	0.000	41.277	36.023	98.819	MWD+IFR1+MS
10300.000	61.993	179.641	10147.121	30.197	0.000	36.344	-0.000	21.181	0.000	0.000	41.663	36.195	98.803	MWD+IFR1+MS
10400.000	69.993	179.641	10187.773	28.842	0.000	36.495	-0.000	22.934	0.000	0.000	41.898	36.339	98.917	MWD+IFR1+MS
10500.000	77.993	179.641	10215.327	27.828	0.000	36.619	-0.000	24.730	0.000	0.000	42.015	36.457	99.098	MWD+IFR1+MS
10600.000	85.993	179.641	10229.246	27.360	0.000	36.715	-0.000	26.512	0.000	0.000	42.055	36.549	99.273	MWD+IFR1+MS
10650.093	90.000	179.641	10230.997	26.807	0.000	36.749	-0.000	26.807	0.000	0.000	42.060	36.583	99.319	MWD+IFR1+MS
10700.000	90.000	179.641	10230.997	26.905	0.000	36.781	-0.000	26.905	0.000	0.000	42.062	36.615	99.361	MWD+IFR1+MS
10800.000	90.000	179.641	10230.997	27.065	0.000	36.862	-0.000	27.065	0.000	0.000	42.069	36.695	99.472	MWD+IFR1+MS
10900.000	90.000	179.641	10230.997	27.249	0.000	36.961	-0.000	27.249	0.000	0.000	42.076	36.791	99.615	MWD+IFR1+MS
11000.000	90.000	179.641	10230.997	27.455	0.000	37.075	-0.000	27.455	0.000	0.000	42.084	36.903	99.791	MWD+IFR1+MS
11100.000	90.000	179.641	10230.997	27.681	0.000	37.205	-0.000	27.681	0.000	0.000	42.093	37.030	100.002	MWD+IFR1+MS
11200.000	90.000	179.641	10230.997	27.927	0.000	37.350	-0.000	27.927	0.000	0.000	42.104	37.172	100.252	MWD+IFR1+MS
11300.000	90.000	179.641	10230.997	28.193	0.000	37.510	-0.000	28.193	0.000	0.000	42.115	37.328	100.546	MWD+IFR1+MS
11400.000	90.000	179.641	10230.997	28.479	0.000	37.685	-0.000	28.479	0.000	0.000	42.128	37.498	100.890	MWD+IFR1+MS
11500.000	90.000	179.641	10230.997	28.782	0.000	37.874	-0.000	28.782	0.000	0.000	42.143	37.682	101.292	MWD+IFR1+MS
11600.000	90.000	179.641	10230.997	29.104	0.000	38.078	-0.000	29.104	0.000	0.000	42.158	37.879	101.762	MWD+IFR1+MS
11700.000	90.000	179.641	10230.997	29.443	0.000	38.296	-0.000	29.443	0.000	0.000	42.176	38.090	102.312	MWD+IFR1+MS
11800.000	90.000	179.641	10230.997	29.799	0.000	38.529	-0.000	29.799	0.000	0.000	42.196	38.313	102.960	MWD+IFR1+MS
11900.000	90.000	179.641	10230.997	30.172	0.000	38.775	-0.000	30.172	0.000	0.000	42.218	38.547	103.725	MWD+IFR1+MS
12000.000	90.000	179.641	10230.997	30.560	0.000	39.034	-0.000	30.560	0.000	0.000	42.243	38.793	104.635	MWD+IFR1+MS
12100.000	90.000	179.641	10230.997	30.963	0.000	39.306	-0.000	30.963	0.000	0.000	42.272	39.050	105.726	MWD+IFR1+MS
12200.000	90.000	179.641	10230.997	31.380	0.000	39.592	-0.000	31.380	0.000	0.000	42.304	39.315	107.047	MWD+IFR1+MS
12300.000	90.000	179.641	10230.997	31.811	0.000	39.890	-0.000	31.811	0.000	0.000	42.343	39.589	108.663	MWD+IFR1+MS
12400.000	90.000	179.641	10230.997	32.256	0.000	40.201	-0.000	32.256	0.000	0.000	42.388	39.868	110.661	MWD+IFR1+MS
12500.000	90.000	179.641	10230.997	32.713	0.000	40.523	-0.000	32.713	0.000	0.000	42.443	40.150	113.157	MWD+IFR1+MS
12600.000	90.000	179.641	10230.997	33.183	0.000	40.858	-0.000	33.183	0.000	0.000	42.511	40.431	116.293	MWD+IFR1+MS

12700.000	90.000	179.641	10230.997	33.664	0.000	41.204	-0.000	33.664	0.000	0.000	42.598	40.705	120.230	MWD+IFR1+MS
12800.000	90.000	179.641	10230.997	34.157	0.000	41.561	-0.000	34.157	0.000	0.000	42.711	40.966	125.086	MWD+IFR1+MS
12900.000	90.000	179.641	10230.997	34.660	0.000	41.929	-0.000	34.660	0.000	0.000	42.857	41.204	130.829	MWD+IFR1+MS
13000.000	90.000	179.641	10230.997	35.174	0.000	42.308	-0.000	35.174	0.000	0.000	43.046	41.412	-42.855	MWD+IFR1+MS
13100.000	90.000	179.641	10230.997	35.697	0.000	42.697	-0.000	35.697	0.000	0.000	43.281	41.584	-36.537	MWD+IFR1+MS
13200.000	90.000	179.641	10230.997	36.230	0.000	43.096	-0.000	36.230	0.000	0.000	43.561	41.721	-30.790	MWD+IFR1+MS
13300.000	90.000	179.641	10230.997	36.772	0.000	43.505	-0.000	36.772	0.000	0.000	43.880	41.830	-25.927	MWD+IFR1+MS
13400.000	90.000	179.641	10230.997	37.323	0.000	43.924	-0.000	37.323	0.000	0.000	44.231	41.917	-21.980	MWD+IFR1+MS
13500.000	90.000	179.641	10230.997	37.882	0.000	44.352	-0.000	37.882	0.000	0.000	44.608	41.988	-18.830	MWD+IFR1+MS
13600.000	90.000	179.641	10230.997	38.449	0.000	44.789	-0.000	38.449	0.000	0.000	45.005	42.047	-16.317	MWD+IFR1+MS
13700.000	90.000	179.641	10230.997	39.023	0.000	45.234	-0.000	39.023	0.000	0.000	45.420	42.099	-14.298	MWD+IFR1+MS
13800.000	90.000	179.641	10230.997	39.605	0.000	45.688	-0.000	39.605	0.000	0.000	45.850	42.145	-12.657	MWD+IFR1+MS
13900.000	90.000	179.641	10230.997	40.193	0.000	46.151	-0.000	40.193	0.000	0.000	46.292	42.187	-11.307	MWD+IFR1+MS
14000.000	90.000	179.641	10230.997	40.788	0.000	46.621	-0.000	40.788	0.000	0.000	46.746	42.226	-10.184	MWD+IFR1+MS
14100.000	90.000	179.641	10230.997	41.390	0.000	47.099	-0.000	41.390	0.000	0.000	47.211	42.263	-9.237	MWD+IFR1+MS
14200.000	90.000	179.641	10230.997	41.997	0.000	47.585	-0.000	41.997	0.000	0.000	47.685	42.298	-8.432	MWD+IFR1+MS
14300.000	90.000	179.641	10230.997	42.611	0.000	48.077	-0.000	42.611	0.000	0.000	48.168	42.332	-7.740	MWD+IFR1+MS
14400.000	90.000	179.641	10230.997	43.229	0.000	48.577	-0.000	43.229	0.000	0.000	48.659	42.365	-7.140	MWD+IFR1+MS
14500.000	90.000	179.641	10230.997	43.854	0.000	49.084	-0.000	43.854	0.000	0.000	49.159	42.398	-6.615	MWD+IFR1+MS
14600.000	90.000	179.641	10230.997	44.483	0.000	49.597	-0.000	44.483	0.000	0.000	49.666	42.430	-6.154	MWD+IFR1+MS
14700.000	90.000	179.641	10230.997	45.117	0.000	50.117	-0.000	45.117	0.000	0.000	50.180	42.462	-5.746	MWD+IFR1+MS
14800.000	90.000	179.641	10230.997	45.756	0.000	50.643	-0.000	45.756	0.000	0.000	50.701	42.494	-5.383	MWD+IFR1+MS
14900.000	90.000	179.641	10230.997	46.399	0.000	51.176	-0.000	46.399	0.000	0.000	51.229	42.526	-5.057	MWD+IFR1+MS
15000.000	90.000	179.641	10230.997	47.046	0.000	51.714	-0.000	47.046	0.000	0.000	51.763	42.558	-4.765	MWD+IFR1+MS
15100.000	90.000	179.641	10230.997	47.698	0.000	52.257	-0.000	47.698	0.000	0.000	52.303	42.590	-4.500	MWD+IFR1+MS
15200.000	90.000	179.641	10230.997	48.354	0.000	52.806	-0.000	48.354	0.000	0.000	52.849	42.622	-4.260	MWD+IFR1+MS
15300.000	90.000	179.641	10230.997	49.013	0.000	53.361	-0.000	49.013	0.000	0.000	53.401	42.654	-4.042	MWD+IFR1+MS
15400.000	90.000	179.641	10230.997	49.676	0.000	53.921	-0.000	49.676	0.000	0.000	53.958	42.687	-3.842	MWD+IFR1+MS
15500.000	90.000	179.641	10230.997	50.343	0.000	54.485	-0.000	50.343	0.000	0.000	54.520	42.720	-3.659	MWD+IFR1+MS
15600.000	90.000	179.641	10230.997	51.013	0.000	55.055	-0.000	51.013	0.000	0.000	55.088	42.753	-3.491	MWD+IFR1+MS
15700.000	90.000	179.641	10230.997	51.686	0.000	55.629	-0.000	51.686	0.000	0.000	55.660	42.787	-3.335	MWD+IFR1+MS
15800.000	90.000	179.641	10230.997	52.362	0.000	56.208	-0.000	52.362	0.000	0.000	56.237	42.821	-3.192	MWD+IFR1+MS
15900.000	90.000	179.641	10230.997	53.041	0.000	56.791	-0.000	53.041	0.000	0.000	56.818	42.855	-3.059	MWD+IFR1+MS

16000.000	90.000	179.641	10230.997	53.723	0.000	57.379	-0.000	53.723	0.000	0.000	57.404	42.890	-2.936	MWD+IFR1+MS
16100.000	90.000	179.641	10230.997	54.408	0.000	57.970	-0.000	54.408	0.000	0.000	57.995	42.925	-2.821	MWD+IFR1+MS
16200.000	90.000	179.641	10230.997	55.096	0.000	58.566	-0.000	55.096	0.000	0.000	58.589	42.961	-2.714	MWD+IFR1+MS
16300.000	90.000	179.641	10230.997	55.786	0.000	59.166	-0.000	55.786	0.000	0.000	59.187	42.997	-2.614	MWD+IFR1+MS
16400.000	90.000	179.641	10230.997	56.479	0.000	59.769	-0.000	56.479	0.000	0.000	59.790	43.033	-2.520	MWD+IFR1+MS
16500.000	90.000	179.641	10230.997	57.174	0.000	60.376	-0.000	57.174	0.000	0.000	60.396	43.070	-2.433	MWD+IFR1+MS
16600.000	90.000	179.641	10230.997	57.871	0.000	60.987	-0.000	57.871	0.000	0.000	61.005	43.108	-2.350	MWD+IFR1+MS
16700.000	90.000	179.641	10230.997	58.570	0.000	61.601	-0.000	58.570	0.000	0.000	61.619	43.145	-2.273	MWD+IFR1+MS
16800.000	90.000	179.641	10230.997	59.272	0.000	62.219	-0.000	59.272	0.000	0.000	62.235	43.184	-2.200	MWD+IFR1+MS
16900.000	90.000	179.641	10230.997	59.976	0.000	62.839	-0.000	59.976	0.000	0.000	62.855	43.222	-2.131	MWD+IFR1+MS
17000.000	90.000	179.641	10230.997	60.681	0.000	63.463	-0.000	60.681	0.000	0.000	63.478	43.261	-2.066	MWD+IFR1+MS
17100.000	90.000	179.641	10230.997	61.389	0.000	64.090	-0.000	61.389	0.000	0.000	64.105	43.301	-2.005	MWD+IFR1+MS
17200.000	90.000	179.641	10230.997	62.098	0.000	64.720	-0.000	62.098	0.000	0.000	64.734	43.341	-1.947	MWD+IFR1+MS
17300.000	90.000	179.641	10230.997	62.810	0.000	65.353	-0.000	62.810	0.000	0.000	65.366	43.381	-1.892	MWD+IFR1+MS
17400.000	90.000	179.641	10230.997	63.523	0.000	65.989	-0.000	63.523	0.000	0.000	66.001	43.422	-1.839	MWD+IFR1+MS
17500.000	90.000	179.641	10230.997	64.237	0.000	66.627	-0.000	64.237	0.000	0.000	66.639	43.464	-1.790	MWD+IFR1+MS
17600.000	90.000	179.641	10230.997	64.954	0.000	67.268	-0.000	64.954	0.000	0.000	67.280	43.506	-1.743	MWD+IFR1+MS
17700.000	90.000	179.641	10230.997	65.672	0.000	67.912	-0.000	65.672	0.000	0.000	67.923	43.548	-1.698	MWD+IFR1+MS
17800.000	90.000	179.641	10230.997	66.391	0.000	68.558	-0.000	66.391	0.000	0.000	68.569	43.591	-1.655	MWD+IFR1+MS
17900.000	90.000	179.641	10230.997	67.112	0.000	69.207	-0.000	67.112	0.000	0.000	69.217	43.634	-1.615	MWD+IFR1+MS
18000.000	90.000	179.641	10230.997	67.834	0.000	69.858	-0.000	67.834	0.000	0.000	69.867	43.678	-1.576	MWD+IFR1+MS
18100.000	90.000	179.641	10230.997	68.558	0.000	70.511	-0.000	68.558	0.000	0.000	70.520	43.722	-1.539	MWD+IFR1+MS
18200.000	90.000	179.641	10230.997	69.282	0.000	71.166	-0.000	69.282	0.000	0.000	71.175	43.767	-1.503	MWD+IFR1+MS
18300.000	90.000	179.641	10230.997	70.009	0.000	71.824	-0.000	70.009	0.000	0.000	71.833	43.812	-1.470	MWD+IFR1+MS
18400.000	90.000	179.641	10230.997	70.736	0.000	72.484	-0.000	70.736	0.000	0.000	72.492	43.858	-1.437	MWD+IFR1+MS
18500.000	90.000	179.641	10230.997	71.465	0.000	73.146	-0.000	71.465	0.000	0.000	73.154	43.904	-1.406	MWD+IFR1+MS
18600.000	90.000	179.641	10230.997	72.195	0.000	73.810	-0.000	72.195	0.000	0.000	73.817	43.950	-1.377	MWD+IFR1+MS
18700.000	90.000	179.641	10230.997	72.926	0.000	74.476	-0.000	72.926	0.000	0.000	74.483	43.997	-1.348	MWD+IFR1+MS
18800.000	90.000	179.641	10230.997	73.658	0.000	75.143	-0.000	73.658	0.000	0.000	75.150	44.045	-1.321	MWD+IFR1+MS
18900.000	90.000	179.641	10230.997	74.391	0.000	75.813	-0.000	74.391	0.000	0.000	75.820	44.093	-1.295	MWD+IFR1+MS
19000.000	90.000	179.641	10230.997	75.125	0.000	76.484	-0.000	75.125	0.000	0.000	76.491	44.141	-1.270	MWD+IFR1+MS
19100.000	90.000	179.641	10230.997	75.861	0.000	77.157	-0.000	75.861	0.000	0.000	77.164	44.190	-1.246	MWD+IFR1+MS
19200.000	90.000	179.641	10230.997	76.597	0.000	77.832	-0.000	76.597	0.000	0.000	77.838	44.240	-1.222	MWD+IFR1+MS

19300.000	90.000	179.641	10230.997	77.334	0.000	78.509	-0.000	77.334	0.000	0.000	78.515	44.290	-1.200	MWD+IFR1+MS
19400.000	90.000	179.641	10230.997	78.072	0.000	79.187	-0.000	78.072	0.000	0.000	79.193	44.340	-1.178	MWD+IFR1+MS
19500.000	90.000	179.641	10230.997	78.811	0.000	79.867	-0.000	78.811	0.000	0.000	79.872	44.391	-1.158	MWD+IFR1+MS
19600.000	90.000	179.641	10230.997	79.551	0.000	80.548	-0.000	79.551	0.000	0.000	80.553	44.442	-1.138	MWD+IFR1+MS
19700.000	90.000	179.641	10230.997	80.292	0.000	81.231	-0.000	80.292	0.000	0.000	81.236	44.494	-1.119	MWD+IFR1+MS
19800.000	90.000	179.641	10230.997	81.033	0.000	81.915	-0.000	81.033	0.000	0.000	81.920	44.546	-1.100	MWD+IFR1+MS
19900.000	90.000	179.641	10230.997	81.776	0.000	82.601	-0.000	81.776	0.000	0.000	82.605	44.598	-1.082	MWD+IFR1+MS
20000.000	90.000	179.641	10230.997	82.519	0.000	83.288	-0.000	82.519	0.000	0.000	83.292	44.651	-1.065	MWD+IFR1+MS
20100.000	90.000	179.641	10230.997	83.263	0.000	83.976	-0.000	83.263	0.000	0.000	83.980	44.705	-1.048	MWD+IFR1+MS
20200.000	90.000	179.641	10230.997	84.008	0.000	84.666	-0.000	84.008	0.000	0.000	84.670	44.759	-1.032	MWD+IFR1+MS
20300.000	90.000	179.641	10230.997	84.753	0.000	85.357	-0.000	84.753	0.000	0.000	85.361	44.813	-1.016	MWD+IFR1+MS
20400.000	90.000	179.641	10230.997	85.499	0.000	86.049	-0.000	85.499	0.000	0.000	86.053	44.868	-1.001	MWD+IFR1+MS
20500.000	90.000	179.641	10230.997	86.246	0.000	86.743	-0.000	86.246	0.000	0.000	86.746	44.924	-0.987	MWD+IFR1+MS
20600.000	90.000	179.641	10230.997	86.993	0.000	87.437	-0.000	86.993	0.000	0.000	87.441	44.979	-0.973	MWD+IFR1+MS
20700.000	90.000	179.641	10230.997	87.741	0.000	88.133	-0.000	87.741	0.000	0.000	88.137	45.036	-0.959	MWD+IFR1+MS
20800.000	90.000	179.641	10230.997	88.490	0.000	88.830	-0.000	88.490	0.000	0.000	88.834	45.092	-0.946	MWD+IFR1+MS
20900.000	90.000	179.641	10230.997	89.240	0.000	89.529	-0.000	89.240	0.000	0.000	89.532	45.149	-0.933	MWD+IFR1+MS
21000.000	90.000	179.641	10230.997	89.990	0.000	90.228	-0.000	89.990	0.000	0.000	90.231	45.207	-0.921	MWD+IFR1+MS
21100.000	90.000	179.641	10230.997	90.740	0.000	90.928	-0.000	90.740	0.000	0.000	90.931	45.265	-0.909	MWD+IFR1+MS
21200.000	90.000	179.641	10230.997	91.491	0.000	91.630	-0.000	91.491	0.000	0.000	91.633	45.323	-0.897	MWD+IFR1+MS
21300.000	90.000	179.641	10230.997	92.243	0.000	92.332	-0.000	92.243	0.000	0.000	92.335	45.382	-0.886	MWD+IFR1+MS
21400.000	90.000	179.641	10230.997	92.995	0.000	93.035	-0.000	92.995	0.000	0.000	93.038	45.442	-0.875	MWD+IFR1+MS
21500.000	90.000	179.641	10230.997	93.748	0.000	93.740	-0.000	93.748	0.000	0.000	93.743	45.501	-0.864	MWD+IFR1+MS
21600.000	90.000	179.641	10230.997	94.501	0.000	94.445	-0.000	94.501	0.000	0.000	94.448	45.561	-0.854	MWD+IFR1+MS
21700.000	90.000	179.641	10230.997	95.255	0.000	95.151	-0.000	95.255	0.000	0.000	95.154	45.622	-0.844	MWD+IFR1+MS
21800.000	90.000	179.641	10230.997	96.009	0.000	95.859	-0.000	96.009	0.000	0.000	95.861	45.683	-0.834	MWD+IFR1+MS
21900.000	90.000	179.641	10230.997	96.764	0.000	96.567	-0.000	96.764	0.000	0.000	96.569	45.745	-0.825	MWD+IFR1+MS
22000.000	90.000	179.641	10230.997	97.519	0.000	97.276	-0.000	97.519	0.000	0.000	97.278	45.807	-0.815	MWD+IFR1+MS
22100.000	90.000	179.641	10230.997	98.275	0.000	97.985	-0.000	98.275	0.000	0.000	97.988	45.869	-0.806	MWD+IFR1+MS
22200.000	90.000	179.641	10230.997	99.031	0.000	98.696	-0.000	99.031	0.000	0.000	98.698	45.932	-0.798	MWD+IFR1+MS
22300.000	90.000	179.641	10230.997	99.788	0.000	99.407	-0.000	99.788	0.000	0.000	99.410	45.995	-0.789	MWD+IFR1+MS
22400.000	90.000	179.641	10230.997	100.545	0.000	100.120	-0.000	100.545	0.000	0.000	100.122	46.058	-0.781	MWD+IFR1+MS
22500.000	90.000	179.641	10230.997	101.302	0.000	100.833	-0.000	101.302	0.000	0.000	100.835	46.122	-0.773	MWD+IFR1+MS

22600.000	90.000	179.641	10230.997	102.060	0.000	101.546	-0.000	102.060	0.000	0.000	101.548	46.187	-0.765	MWD+IFR1+MS
22700.000	90.000	179.641	10230.997	102.819	0.000	102.261	-0.000	102.819	0.000	0.000	102.263	46.252	-0.758	MWD+IFR1+MS
22800.000	90.000	179.641	10230.997	103.577	0.000	102.976	-0.000	103.577	0.000	0.000	102.978	46.317	-0.750	MWD+IFR1+MS
22900.000	90.000	179.641	10230.997	104.336	0.000	103.692	-0.000	104.336	0.000	0.000	103.694	46.383	-0.743	MWD+IFR1+MS
22937.155	90.000	179.641	10230.997	104.618	0.000	103.958	-0.000	104.618	0.000	0.000	103.959	46.407	-0.740	MWD+IFR1+MS
23000.000	90.000	179.641	10230.997	105.094	0.000	104.407	-0.000	105.094	0.000	0.000	104.409	46.449	-0.736	MWD+IFR1+MS
23027.152	90.000	179.641	10230.997	105.300	0.000	104.601	-0.000	105.300	0.000	0.000	104.603	46.467	-0.734	MWD+IFR1+MS

Plan Targets

Poker Lake Unit 21 DTD South 181H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 3	10397.03	440426.30	637429.60	6872.00	RECTANGLE
SHL 16	13603.70	439142.80	639689.24	7713.00	RECTANGLE
LTP 3	22937.15	427423.30	637511.00	6872.00	RECTANGLE
BHL 3	23027.29	427333.30	637511.50	6872.00	RECTANGLE

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ALL DIMENSIONS APPROXIMATE			
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 INC DELAWARE BASIN		DRAWN	VJK
		APPRV	31MAR22
DRAWING NO.		HBE0000479	

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

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

Background

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

Supporting Documentation

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



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

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API STANDARD 53

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

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

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

No visible leaks.

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

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

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

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

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

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

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

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

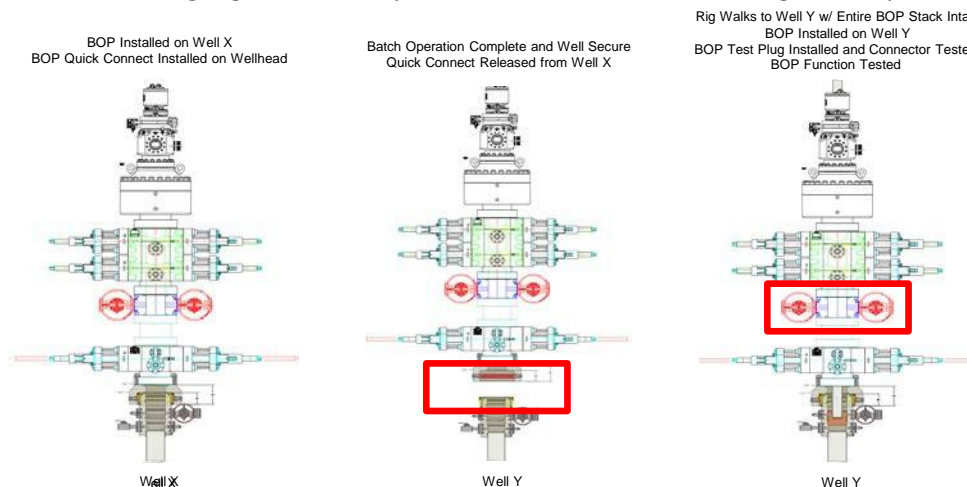
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

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

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

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



Summary

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

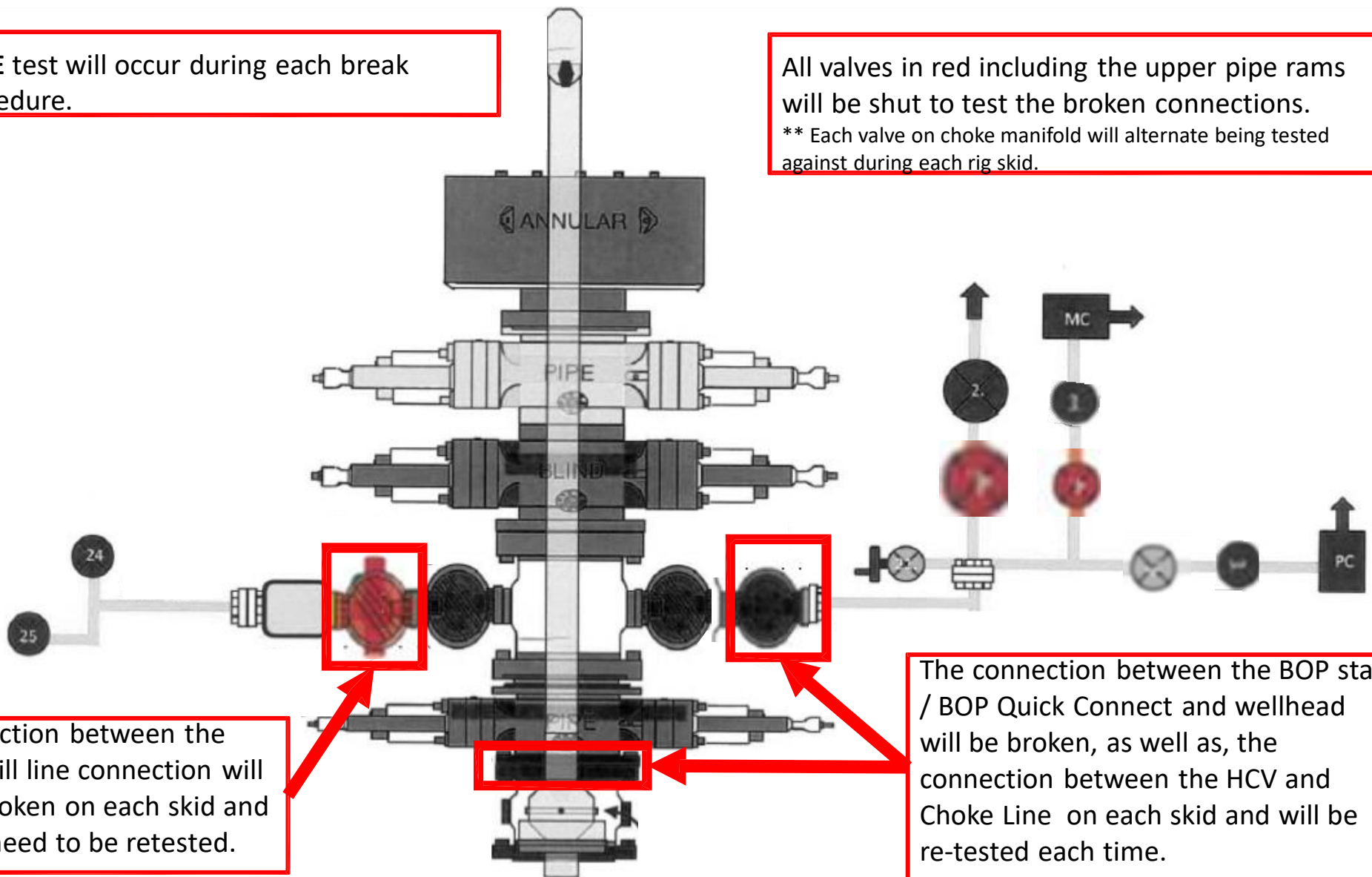
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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

1. After a full BOP test is conducted on the first well on the pad.
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

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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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 360218

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 360218
	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.	7/12/2024