

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report

Well Name: POKER LAKE UNIT 17 Well Location: T24S / R31E / SEC 20 / County or Parish/State:

NENE / **TWR**

Well Number: 508H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMLC061705B **Unit or CA Name: Unit or CA Number:**

NMNM71016X

US Well Number: Well Status: Approved Application for **Operator: XTO PERMIAN OPERATING LLC**

Permit to Drill

Notice of Intent

Sundry ID: 2762590

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

Date Sundry Submitted: 11/21/2023 **Time Sundry Submitted: 11:48**

Date proposed operation will begin: 11/22/2023

Procedure Description: **Surface Hole Location Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. XTO Permian Operating, LLC. requests permission to make the following changes to the original APD: SHL: fr/620'FNL & 1038'FEL to 620'FNL & 1588'FEL, Section 20-T24S-R31E FTP: fr/100'FNL & 225'FEL to 100'FNL & 1630'FEL LTP: fr/100'FSL & 225'FEL to 100'FSL & 1630'FEL BHL: fr/50'FSL & 225'FEL to 50'FSL & 1630'FEL, Section 29-T24S-R31E Casing/Cement design: weight fr/23 to 20. Attachments: C102 Drilling Program Directional Plan MB

NOI Attachments

Procedure Description

PLU_17_TWR_508H_Sundry_Attachments_20231121114816.pdf

Page 1 of 2

eived by OCD: 12/28/2023 4:10:12 PM Well Name: POKER LAKE UNIT 17

TWR

Well Location: T24S / R31E / SEC 20 /

County or Parish/State:

Page 2 of

Well Number: 508H

NENE /

Type of Well: OIL WELL

Allottee or Tribe Name:

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Unit or CA Name:

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NMNM71016X

US Well Number:

Well Status: Approved Application for

Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec 20 24S 30E NMP Sundry 2762590 Poker Lake Unit 17 TWR 508H COAs 20231211143559.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: KRISTEN HOUSTON Signed on: NOV 21, 2023 11:48 AM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND State: TX

Phone: (432) 620-6700

Email address: KRISTEN.HOUSTON@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: 12/28/2023

Signature: Chris Walls

Page 2 of 2

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMENT

5. Lease Serial No. NMLC061705B

					TIME COOT TOOL				
Do not use this f	OTICES AND REPORTS ON W orm for proposals to drill or to Jse Form 3160-3 (APD) for suc	re-e	nter an	6. If Indian, Allottee	or Tribe Name				
SUBMIT IN 1	TRIPLICATE - Other instructions on page	e 2		_	eement, Name and/or No.				
1. Type of Well				NMNM71016X					
Oil Well Gas W	Vell Other		8. Well Name and No. POKER LAKE UNIT 17 1						
2. Name of Operator XTO PERMIAN	OPERATING LLC			9. API Well No.					
3a. Address 6401 HOLIDAY HILL RO	DAD BLDG 5, MIDLAND, 3b. Phone No.	(include	e area code)	area code) 10. Field and Pool or Exploratory Area					
	(432) 683-227	77		WILDCAT/Bone S	Spring				
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description)			11. Country or Parish	n, State				
SEC 20/T24S/R31E/NMP				EDDY/NM					
12. CHE	CK THE APPROPRIATE BOX(ES) TO INC	DICATE	E NATURE OF NOTI	CE, REPORT OR OT	HER DATA				
TYPE OF SUBMISSION			TYPE OF ACT	ΓΙΟΝ					
✓ Notice of Intent	Acidize Deep	en	Prod	uction (Start/Resume)	Water Shut-Off				
rotice of intent	Alter Casing Hydra	aulic Fr	acturing Recla	amation	Well Integrity				
Subsequent Report	Casing Repair New	Constru	ection Reco	mplete	Other				
	Change Plans Plug	and Aba		orarily Abandon					
Final Abandonment Notice	Convert to Injection Plug	Back	Wate	r Disposal					
completion of the involved operation completed. Final Abandonment Not is ready for final inspection.) **Surface Hole Location Change Change, Casing/Cement Change XTO Permian Operating, LLC.	requests permission to make the followi	pletions, included a second se	or recompletion in a ling reclamation, have Hole Location Chain	new interval, a Form in the been completed and in the been completed a	3160-4 must be filed once testing has been the operator has detennined that the site				
	620FNL & 1588FEL, Section 20-T24S-F	R31E							
FTP: fr/100FNL & 225FEL to 1	00FNL & 1630FEL								
LTP: fr/100FSL & 225FEL to 1	00FSL & 1630FEL								
	FSL & 1630FEL, Section 29-T24S-R31E	≣							
Continued on page 3 additional	true and correct. Name (Printed/Typed)								
KRISTEN HOUSTON / Ph: (432) 6			Regulatory Analyst						
1402) 02	20 07 00	Title							
Signature (Electronic Submissio	n)	Date		11/21/2	2023				
	THE SPACE FOR FEDE	ERAL	OR STATE OF	ICE USE					
Approved by									
CHRISTOPHER WALLS / Ph: (575	s) 234-2234 / Approved		Petroleum Eng	ineer	12/28/2023 Date				
	ned. Approval of this notice does not warrant quitable title to those rights in the subject leaduct operations thereon.	tor	Office CARLSBAD						

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

(Instructions on page 2)

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Casing/Cement design: weight fr/23 to 20.

Attachments:

C102

Drilling Program

Directional Plan

MB

Location of Well

0. SHL: NENE / 620 FNL / 1038 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.208378 / LONG: -103.794649 (TVD: 0 feet, MD: 0 feet) PPP: NESE / 330 FNL / 225 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.200247 / LONG: -103.79201 (TVD: 10840 feet, MD: 14000 feet) PPP: NENE / 100 FNL / 225 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209811 / LONG: -103.792022 (TVD: 10840 feet, MD: 11300 feet) PPP: NENE / 330 FNL / 225 FEL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.190108 / LONG: -103.791991 (TVD: 10840 feet, MD: 16600 feet) BHL: SESE / 50 FSL / 225 FEL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.181185 / LONG: -103.791982 (TVD: 10840 feet, MD: 21692 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy Incorporated
WELL NAME & NO.: Poker Lake Unit 17 TWR 508H
LOCATION: Sec 20-24S-30E-NMP
COUNTY: Eddy County, New Mexico

Engineering changes addressed through **Sundry 2762590** on 12/11/2023. 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	High	Critical
Wellhead	Conventional	• Multibowl	O Both	Diverter
Cementing	☐ Primary Squeeze	Cont. Squeeze	EchoMeter	□ DV Tool
Special Req	Break Testing	☐ Water Disposal	\square COM	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 Onshore Order 6 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 731 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.
 - 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:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon at 6889'
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. 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 (cement tieback increased due to operator not meeting 0.422" clearance requirement per 43 CFR 3172) into previous casing string. 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
 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
 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.

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

azos 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

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Lake

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X TO

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

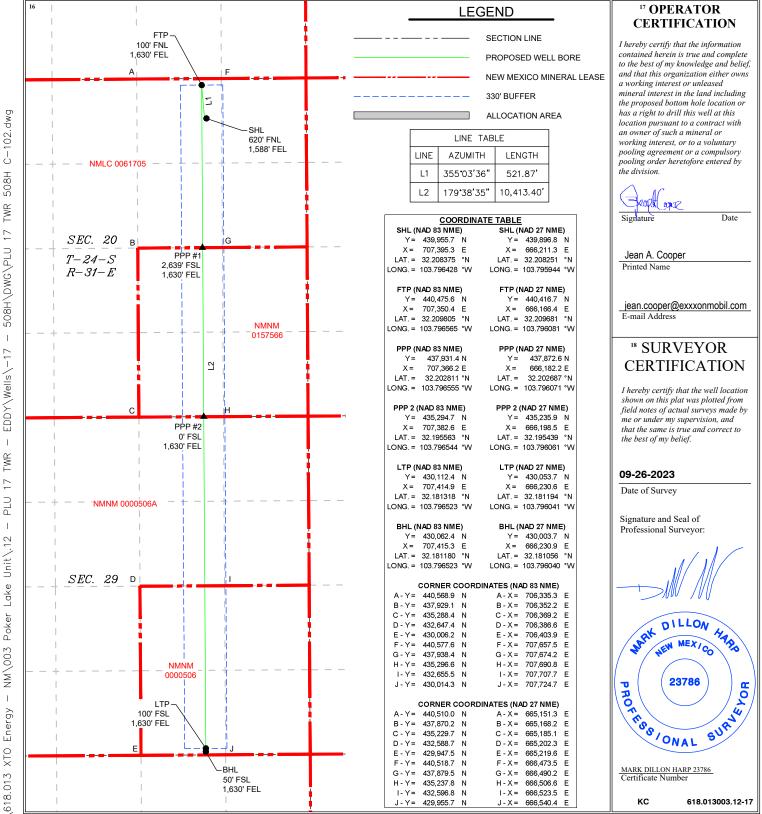
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	² Pool Code ³ Pool Name							
10400091046	96403	Wildcat; Bone Spring							
⁴ Property Code	⁵ P1	⁵ Property Name ⁶ Well Number							
	POKER L	AKE UNIT 17 TWR	508H						
⁷ OGRID No.	⁸ O ₁	perator Name	⁹ Elevation						
373075	XTO PERMIA	3,519'							

¹⁰ Surface Location UL or lot no. Section Township Range North/South line Feet from the East/West line В **24S** 31E **NORTH** 1,588 **EAST EDDY** 20

"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 29 **24S** 31E 50 SOUTH 1,630 **EAST EDDY** ³ Joint or Infill 12 Dedicated Acres Consolidation Code ⁵Order No. 320

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.



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

XTO Energy Inc.

PLU 17 Twin Wells Ranch 508H Projected TD: 21826.85' MD / 10057' TVD SHL: 620' FNL & 1588' FEL , Section 20, T24S, R31E BHL: 50' FSL & 1630' FEL , Section 29, T24S, R31E 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	631'	Water
Top of Salt	982'	Water
Base of Salt	4147'	Water
Delaware	4360'	Water
Brushy Canyon	6889'	Water/Oil/Gas
Bone Spring	8211'	Water
1st Bone Spring	9206'	Water/Oil/Gas
2nd Bone Spring	9981'	Water/Oil/Gas
Target/Land Curve	10057'	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 @ 731' (251' 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 8400' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21826.85 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8100 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 731'	9.625	40	J-55	втс	New	1.51	8.61	21.55
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.19	2.52	2.24
8.75	4000' – 8400'	7.625	29.7	HC L-80	Flush Joint	New	1.59	2.19	3.11
6.75	0' – 8300'	5.5	20	RY P-110	Semi-Premium	New	1.26	2.06	2.13
6.75	8300' - 21826.85'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.70	2.13

[·] 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
- · 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 +/- 731'

Lead: 140 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 8400'

st Stage

Optional Lead: 370 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 140 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6889

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: 780 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 (6889') 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 +/- 21826.85'

Lead: 80 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8100 feet

Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10288.65 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 5M Double Ram BOP. MASP should not exceed 4325 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

INITED\/AI	Holo Sizo	Mud Type	MW	Viscosity	Fluid Loss
INTERVAL	INTERVAL Hole Size Mud	Mud Type	(ppg)	(sec/qt)	(cc)
0' - 731'	12.25	FW/Native	8.4-8.9	35-40	NC
731' - 8400'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
8400' - 21826.85'	6.75	ОВМ	12.5-13	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

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

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 6537 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.

508H

Slot:

Well Plan Report - 508H

 Measured Depth:
 21025.00 ft
 Site:
 A

TVD RKB: 10057.00 ft

Location

Cartographic New Mexico East Reference System: NAD 27

Northing: 439896.80 ft
Easting: 666211.30 ft
RKB: 3551.00 ft
Ground Level: 3519.00 ft
North Reference: Grid

Convergence Angle: 0.29 Deg

Plan Sections 508H

	Dogleg	Turn	Build			TVD			Measured
	Rate	Rate	Rate	X Offset	Y Offset	RKB	Azimuth	Inclination	Depth
Target	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	(ft)	(ft)	(ft)	(Deg)	(Deg)	(ft)
	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	-0.00	1200.00	0.00	0.00	1200.00
	2.00	0.00	2.00	-3.49	87.56	1903.15	357.71	14.21	1910.41
	0.00	0.00	0.00	- 45.84	1148.52	6096.85	357.71	14.21	6236.44
	2.00	0.00	-2.00	-49.34	1236.08	6800.00	0.00	0.00	6946.85
	0.00	0.00	0.00	-49.34	1236.08	9340.80	0.00	0.00	9487.65
FTP 16	8.00	0.00	8.00	- 44.90	519.90	10057.00	179.65	90.00	10612.65
LTP 16	0.00	0.00	0.00	19.30	-9843.10	10057.00	179.65	90.00	20975.84
BHL 16	0.00	0.00	0.00	19.61	-9893.10	10057.00	179.65	90.00	21025.85

Position Uncertainty 508H

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

Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.260	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.728	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.326	0.000	0.000	1.698	0.986	125.475	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.348	0.000	0.000	2.108	1.343	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.375	0.000	0.000	2.503	1.701	127.421	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.408	0.000	0.000	2.888	2.059	127.870	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.446	0.000	0.000	3.267	2.417	128.192	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.333	0.000	3.138	0.000	2.488	0.000	0.000	3.642	2.774	128.446	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.501	0.000	2.534	0.000	0.000	4.014	3.132	128.582	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.057	0.000	3.865	0.000	2.584	0.000	0.000	4.384	3.491	128.759	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.418	0.000	4.227	0.000	2.638	0.000	0.000	4.752	3.849	128.868	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.695	0.000	0.000	5.119	4.207	128.956	MWD+IFR1+MS
1300.000	1.999	357.700	1299.980	5.083	0.000	4.984	0.000	2.755	0.000	0.000	5.627	4.584	124.574	MWD+IFR1+MS
1400.000	4.000	357.700	1399.838	5.605	0.000	5.340	0.000	2.819	0.000	0.000	6.350	4.992	116.596	MWD+IFR1+MS
1500.000	6.000	357.700	1499.452	5.983	0.000	5.695	0.000	2.887	0.000	0.000	7.038	5.363	112.562	MWD+IFR1+MS
1600.000	7.999	357.700	1598.702	6.238	0.000	6.049	0.000	2.962	0.000	0.000	7.686	5.721	110.210	MWD+IFR1+MS
1700.000	10.000	357.700	1697.465	6.378	0.000	6.402	0.000	3.047	0.000	0.000	8.300	6.073	108.709	MWD+IFR1+MS
1800.000	11.990	357.700	1795.623	6.409	0.000	6.757	0.000	3.143	0.000	0.000	8.883	6.424	107.689	MWD+IFR1+MS
1900.000	14.000	357.700	1893.055	6.325	0.000	7.114	0.000	3.251	0.000	0.000	9.442	6.775	106.963	MWD+IFR1+MS
1910.400	14.200	357.700	1903.148	6.295	0.000	7.148	0.000	3.253	0.000	0.000	9.472	6.811	106.933	MWD+IFR1+MS
2000.000	14.200	357.700	1990.001	6.464	0.000	7.453	0.000	3.327	0.000	0.000	9.713	7.127	106.976	MWD+IFR1+MS
2100.000	14.200	357.700	2086.942	6.663	0.000	7.814	0.000	3.416	0.000	0.000	10.005	7.491	107.286	MWD+IFR1+MS
2200.000	14.200	357.700	2183.883	6.865	0.000	8.180	0.000	3.509	0.000	0.000	10.305	7.858	107.650	MWD+IFR1+MS
2300.000	14.200	357.700	2280.824	7.073	0.000	8.549	0.000	3.606	0.000	0.000	10.611	8.227	107.992	MWD+IFR1+MS
2400.000	14.200	357.700	2377.765	7.287	0.000	8.919	0.000	3.704	0.000	0.000	10.926	8.598	108.300	MWD+IFR1+MS
2500.000	14.200	357.700	2474.706	7.502	0.000	9.292	0.000	3.805	0.000	0.000	11.242	8.971	108.636	MWD+IFR1+MS
2600.000	14.200	357.700	2571.647	7.720	0.000	9.666	0.000	3.910	0.000	0.000	11.563	9.345	108.975	MWD+IFR1+MS
2700.000	14.200	357.700	2668.588	7.944	0.000	10.042	0.000	4.016	0.000	0.000	11.892	9.721	109.277	MWD+IFR1+MS
2800.000	14.200	357.700	2765.529	8.168	0.000	10.419	0.000	4.126	0.000	0.000	12.220	10.098	109.613	MWD+IFR1+MS
2900.000	14.200	357.700	2862.470	8.394	0.000	10.793	0.000	4.237	0.000	0.000	12.552	10.471	109.909	MWD+IFR1+MS

3000.000	14.200	357.700	2959.411	8.625	0.000	11.177	0.000	4.350	0.000	0.000	12.891	10.854	110.236	MWD+IFR1+MS
3100.000	14.200	357.700	3056.352	8.856	0.000	11.556	0.000	4.465	0.000	0.000	13.229	11.233	110.549	MWD+IFR1+MS
3200.000	14.200	357.700	3153.294	9.088	0.000	11.936	0.000	4.583	0.000	0.000	13.570	11.612	110.864	MWD+IFR1+MS
3300.000	14.200	357.700	3250.235	9.325	0.000	12.317	0.000	4.702	0.000	0.000	13.917	11.992	111.135	MWD+IFR1+MS
3400.000	14.200	357.700	3347.176	9.561	0.000	12.702	0.000	4.823	0.000	0.000	14.263	12.376	111.485	MWD+IFR1+MS
3500.000	14.200	357.700	3444.117	9.798	0.000	13.083	0.000	4.946	0.000	0.000	14.611	12.756	111.782	MWD+IFR1+MS
3600.000	14.200	357.700	3541.058	10.039	0.000	13.468	0.000	5.070	0.000	0.000	14.965	13.140	112.073	MWD+IFR1+MS
3700.000	14.200	357.700	3637.999	10.280	0.000	13.850	0.000	5.195	0.000	0.000	15.316	13.521	112.359	MWD+IFR1+MS
3800.000	14.200	357.700	3734.940	10.521	0.000	14.235	0.000	5.323	0.000	0.000	15.670	13.905	112.678	MWD+IFR1+MS
3900.000	14.200	357.700	3831.881	10.766	0.000	14.621	0.000	5.452	0.000	0.000	16.029	14.289	112.961	MWD+IFR1+MS
4000.000	14.200	357.700	3928.822	11.010	0.000	15.007	0.000	5.582	0.000	0.000	16.386	14.673	113.269	MWD+IFR1+MS
4100.000	14.200	357.700	4025.763	11.255	0.000	15.393	0.000	5.715	0.000	0.000	16.745	15.057	113.572	MWD+IFR1+MS
4200.000	14.200	357.700	4122.704	11.503	0.000	15.779	0.000	5.848	0.000	0.000	17.107	15.442	113.838	MWD+IFR1+MS
4300.000	14.200	357.700	4219.645	11.749	0.000	16.168	0.000	5.983	0.000	0.000	17.469	15.829	114.170	MWD+IFR1+MS
4400.000	14.200	357.700	4316.586	11.999	0.000	16.554	0.000	6.120	0.000	0.000	17.833	16.213	114.426	MWD+IFR1+MS
4500.000	14.200	357.700	4413.527	12.247	0.000	16.940	0.000	6.259	0.000	0.000	18.197	16.598	114.708	MWD+IFR1+MS
4600.000	14.200	357.700	4510.468	12.498	0.000	17.329	0.000	6.398	0.000	0.000	18.564	16.985	114.993	MWD+IFR1+MS
4700.000	14.200	357.700	4607.409	12.748	0.000	17.718	0.000	6.540	0.000	0.000	18.930	17.371	115.311	MWD+IFR1+MS
4800.000	14.200	357.700	4704.350	12.999	0.000	18.104	0.000	6.683	0.000	0.000	19.296	17.756	115.579	MWD+IFR1+MS
4900.000	14.200	357.700	4801.291	13.252	0.000	18.492	0.000	6.827	0.000	0.000	19.666	18.143	115.849	MWD+IFR1+MS
5000.000	14.200	357.700	4898.233	13.504	0.000	18.881	0.000	6.974	0.000	0.000	20.034	18.529	116.153	MWD+IFR1+MS
5100.000	14.200	357.700	4995.174	13.758	0.000	19.270	0.000	7.121	0.000	0.000	20.406	18.916	116.412	MWD+IFR1+MS
5200.000	14.200	357.700	5092.115	14.011	0.000	19.659	0.000	7.270	0.000	0.000	20.775	19.302	116.701	MWD+IFR1+MS
5300.000	14.200	357.700	5189.056	14.266	0.000	20.050	0.000	7.421	0.000	0.000	21.149	19.691	116.991	MWD+IFR1+MS
5400.000	14.200	357.700	5285.997	14.521	0.000	20.438	0.000	7.574	0.000	0.000	21.522	20.078	117.237	MWD+IFR1+MS
5500.000	14.200	357.700	5382.938	14.776	0.000	20.827	0.000	7.728	0.000	0.000	21.893	20.464	117.517	MWD+IFR1+MS
5600.000	14.200	357.700	5479.879	15.032	0.000	21.217	0.000	7.884	0.000	0.000	22.268	20.853	117.793	MWD+IFR1+MS
5700.000	14.200	357.700	5576.820	15.288	0.000	21.606	0.000	8.041	0.000	0.000	22.641	21.239	118.065	MWD+IFR1+MS
5800.000	14.200	357.700	5673.761	15.545	0.000	21.996	0.000	8.199	0.000	0.000	23.017	21.627	118.332	MWD+IFR1+MS
5900.000	14.200	357.700	5770.702	15.803	0.000	22.387	0.000	8.361	0.000	0.000	23.393	22.015	118.594	MWD+IFR1+MS
6000.000	14.200	357.700	5867.643	16.061	0.000	22.777	0.000	8.523	0.000	0.000	23.769	22.403	118.853	MWD+IFR1+MS
6100.000	14.200	357.700	5964.584	16.318	0.000	23.167	0.000	8.687	0.000	0.000	24.145	22.791	119.150	MWD+IFR1+MS
6200.000	14.200	357.700	6061.525	16.576	0.000	23.557	0.000	8.853	0.000	0.000	24.522	23.179	119.400	MWD+IFR1+MS

6236.400	14.200	357.700	6096.852	16.669	0.000	23.697	0.000	8.913	0.000	0.000	24.656	23.320	119.452	MWD+IFR1+MS
6300.000	12.930	357.700	6158.634	17.677	0.000	23.939	0.000	9.021	0.000	0.000	24.892	23.564	119.422	MWD+IFR1+MS
6400.000	10.930	357.700	6256.467	19.263	0.000	24.317	0.000	9.193	0.000	0.000	25.317	23.949	118.615	MWD+IFR1+MS
6500.000	8.936	357.700	6354.962	20.831	0.000	24.691	0.000	9.361	0.000	0.000	25.771	24.328	117.425	MWD+IFR1+MS
6600.000	6.936	357.700	6453.999	22.361	0.000	25.057	0.000	9.521	0.000	0.000	26.215	24.699	116.385	MWD+IFR1+MS
6700.000	4.936	357.700	6553.457	23.854	0.000	25.413	0.000	9.673	0.000	0.000	26.653	25.060	115.422	MWD+IFR1+MS
6800.000	2.936	357.700	6653.216	25.308	0.000	25.759	0.000	9.819	0.000	0.000	27.082	25.410	114.520	MWD+IFR1+MS
6900.000	0.937	357.700	6753.154	26.720	0.000	26.097	0.000	9.959	0.000	0.000	27.500	25.751	113.722	MWD+IFR1+MS
6946.800	0.000	0.000	6800.000	27.384	0.000	26.195	0.000	10.020	0.000	0.000	27.658	25.906	113.627	MWD+IFR1+MS
7000.000	0.000	0.000	6853.152	27.554	0.000	26.367	0.000	10.095	0.000	0.000	27.826	26.079	113.589	MWD+IFR1+MS
7100.000	0.000	0.000	6953.152	27.871	0.000	26.695	0.000	10.237	0.000	0.000	28.143	26.408	113.635	MWD+IFR1+MS
7200.000	0.000	0.000	7053.152	28.192	0.000	27.026	0.000	10.378	0.000	0.000	28.465	26.739	113.742	MWD+IFR1+MS
7300.000	0.000	0.000	7153.152	28.513	0.000	27.357	0.000	10.521	0.000	0.000	28.787	27.069	113.843	MWD+IFR1+MS
7400.000	0.000	0.000	7253.152	28.836	0.000	27.689	0.000	10.672	0.000	0.000	29.111	27.400	113.947	MWD+IFR1+MS
7500.000	0.000	0.000	7353.152	29.160	0.000	28.021	0.000	10.821	0.000	0.000	29.435	27.732	114.027	MWD+IFR1+MS
7600.000	0.000	0.000	7453.152	29.484	0.000	28.357	0.000	10.977	0.000	0.000	29.761	28.066	114.150	MWD+IFR1+MS
7700.000	0.000	0.000	7553.152	29.809	0.000	28.690	0.000	11.136	0.000	0.000	30.087	28.398	114.228	MWD+IFR1+MS
7800.000	0.000	0.000	7653.152	30.135	0.000	29.024	0.000	11.296	0.000	0.000	30.413	28.732	114.326	MWD+IFR1+MS
7900.000	0.000	0.000	7753.152	30.461	0.000	29.360	0.000	11.459	0.000	0.000	30.741	29.067	114.423	MWD+IFR1+MS
8000.000	0.000	0.000	7853.152	30.790	0.000	29.695	0.000	11.623	0.000	0.000	31.070	29.402	114.494	MWD+IFR1+MS
8100.000	0.000	0.000	7953.152	31.118	0.000	30.032	0.000	11.794	0.000	0.000	31.399	29.737	114.588	MWD+IFR1+MS
8200.000	0.000	0.000	8053.152	31.445	0.000	30.369	0.000	11.967	0.000	0.000	31.728	30.074	114.702	MWD+IFR1+MS
8300.000	0.000	0.000	8153.152	31.765	0.000	30.707	0.000	12.141	0.000	0.000	32.050	30.409	114.922	MWD+IFR1+MS
8400.000	0.000	0.000	8253.152	32.094	0.000	31.045	0.000	12.321	0.000	0.000	32.380	30.746	115.033	MWD+IFR1+MS
8500.000	0.000	0.000	8353.152	32.435	0.000	31.383	0.000	12.502	0.000	0.000	32.720	31.086	114.974	MWD+IFR1+MS
8600.000	0.000	0.000	8453.152	32.757	0.000	31.718	0.000	12.685	0.000	0.000	33.044	31.418	115.125	MWD+IFR1+MS
8700.000	0.000	0.000	8553.152	33.091	0.000	32.047	0.000	12.872	0.000	0.000	33.376	31.749	115.042	MWD+IFR1+MS
8800.000	0.000	0.000	8653.152	33.422	0.000	32.388	0.000	13.065	0.000	0.000	33.709	32.089	115.170	MWD+IFR1+MS
8900.000	0.000	0.000	8753.152	33.764	0.000	32.726	0.000	13.259	0.000	0.000	34.050	32.429	115.090	MWD+IFR1+MS
9000.000	0.000	0.000	8853.152	34.088	0.000	33.076	0.000	13.457	0.000	0.000	34.378	32.774	115.421	MWD+IFR1+MS
9100.000	0.000	0.000	8953.152	34.424	0.000	33.422	0.000	13.657	0.000	0.000	34.715	33.119	115.544	MWD+IFR1+MS
9200.000	0.000	0.000	9053.152	34.756	0.000	33.749	0.000	13.860	0.000	0.000	35.046	33.448	115.462	MWD+IFR1+MS
9300.000	0.000	0.000	9153.152	35.100	0.000	34.103	0.000	14.068	0.000	0.000	35.391	33.801	115.584	MWD+IFR1+MS

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9400.000	0.000	0.000	9253.152	35.426	0.000	34.438	0.000	14.276	0.000	0.000	35.718	34.135	115.701 MW	D+IFR1+MS
9487.600	0.000	0.000	9340.803	35.721	0.000	34.742	0.000	14.464	0.000	0.000	36.014	34.438	115.781 MW	D+IFR1+MS
9500.000	0.988	179.600	9353.151	36.362	0.000	34.794	-0.000	14.488	0.000	0.000	36.056	34.482	115.785 MW	D+IFR1+MS
9600.000	8.987	179.600	9452.692	41.306	0.000	35.095	-0.000	14.714	0.000	0.000	36.649	34.826	111.906 MWI	D+IFR1+MS
9700.000	16.980	179.600	9550.054	46.023	0.000	35.365	-0.000	15.050	0.000	0.000	37.925	35.166	104.892 MWI	D+IFR1+MS
9800.000	24.980	179.600	9643.344	49.470	0.000	35.620	-0.000	15.585	0.000	0.000	39.072	35.445	101.981 MWI	D+IFR1+MS
9900.000	32.980	179.600	9730.745	51.523	0.000	35.845	-0.000	16.377	0.000	0.000	40.050	35.679	100.521 MWI	D+IFR1+MS
10000.000	40.980	179.600	9810.557	52.095	0.000	36.040	-0.000	17.450	0.000	0.000	40.829	35.875	99.785 MWI	D+IFR1+MS
10100.000	48.980	179.600	9881.225	51.219	0.000	36.221	-0.000	18.786	0.000	0.000	41.427	36.053	99.440 MWI	D+IFR1+MS
10200.000	56.980	179.600	9941.374	48.948	0.000	36.359	-0.000	20.340	0.000	0.000	41.840	36.186	99.331 MW	D+IFR1+MS
10300.000	64.980	179.600	9989.834	45.417	0.000	36.470	-0.000	22.050	0.000	0.000	42.096	36.289	99.379 MW	D+IFR1+MS
10400.000	72.980	179.600	10025.661	40.781	0.000	36.552	-0.000	23.854	0.000	0.000	42.232	36.365	99.505 MWI	D+IFR1+MS
10500.000	80.980	179.600	10048.159	35.167	0.000	36.621	-0.000	25.685	0.000	0.000	42.285	36.428	99.663 MWI	D+IFR1+MS
10600.000	88.980	179.600	10056.888	28.615	0.000	36.662	-0.000	27.483	0.000	0.000	42.287	36.466	99.770 MW	D+IFR1+MS
10612.000	90.000	179.600	10057.000	27.515	0.000	36.662	-0.000	27.515	0.000	0.000	42.287	36.466	99.769 MWI	D+IFR1+MS
10700.000	90.000	179.600	10057.000	27.700	0.000	36.689	-0.000	27.700	0.000	0.000	42.287	36.494	99.797 MWI	D+IFR1+MS
10800.000	90.000	179.600	10057.000	27.925	0.000	36.744	-0.000	27.925	0.000	0.000	42.288	36.547	99.868 MW	D+IFR1+MS
10900.000	90.000	179.600	10057.000	28.171	0.000	36.811	-0.000	28.171	0.000	0.000	42.290	36.614	99.963 MWI	D+IFR1+MS
11000.000	90.000	179.600	10057.000	28.436	0.000	36.906	-0.000	28.436	0.000	0.000	42.292	36.707	100.105 MW	D+IFR1+MS
11100.000	90.000	179.600	10057.000	28.719	0.000	37.028	-0.000	28.719	0.000	0.000	42.295	36.826	100.301 MW	D+IFR1+MS
11200.000	90.000	179.600	10057.000	29.022	0.000	37.163	-0.000	29.022	0.000	0.000	42.310	36.958	100.504 MW	D+IFR1+MS
11300.000	90.000	179.600	10057.000	29.343	0.000	37.324	-0.000	29.343	0.000	0.000	42.314	37.115	100.794 MWI	D+IFR1+MS
11400.000	90.000	179.600	10057.000	29.680	0.000	37.498	-0.000	29.680	0.000	0.000	42.319	37.284	101.128 MW	D+IFR1+MS
11500.000	90.000	179.600	10057.000	30.035	0.000	37.697	-0.000	30.035	0.000	0.000	42.326	37.477	101.539 MWI	D+IFR1+MS
11600.000	90.000	179.600	10057.000	30.406	0.000	37.909	-0.000	30.406	0.000	0.000	42.345	37.682	101.986 MWI	D+IFR1+MS
11700.000	90.000	179.600	10057.000	30.793	0.000	38.145	-0.000	30.793	0.000	0.000	42.354	37.909	102.569 MWI	D+IFR1+MS
11800.000	90.000	179.600	10057.000	31.193	0.000	38.407	-0.000	31.193	0.000	0.000	42.377	38.160	103.245 MW	D+IFR1+MS
11900.000	90.000	179.600	10057.000	31.609	0.000	38.679	-0.000	31.609	0.000	0.000	42.391	38.419	104.078 MW	D+IFR1+MS
12000.000	90.000	179.600	10057.000	32.031	0.000	38.962	-0.000	32.031	0.000	0.000	42.418	38.687	105.016 MW	D+IFR1+MS
12100.000	90.000	179.600	10057.000	32.481	0.000	39.269	-0.000	32.481	0.000	0.000	42.439	38.974	106.236 MWI	D+IFR1+MS
12200.000	90.000	179.600	10057.000	32.924	0.000	39.599	-0.000	32.924	0.000	0.000	42.476	39.279	107.712 MW	D+IFR1+MS
12300.000	90.000	179.600	10057.000	33.392	0.000	39.938	-0.000	33.392	0.000	0.000	42.519	39.587	109.510 MWI	D+IFR1+MS
12400.000	90.000	179.600	10057.000	33.882	0.000	40.300	-0.000	33.882	0.000	0.000	42.562	39.906	111.908 MW	D+IFR1+MS

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12500.000	90.000	179.600	10057.000	34.366	0.000	40.670	-0.000	34.366	0.000	0.000	42.627	40.224	114.810 N	MWD+IFR1+MS
12600.000	90.000	179.600	10057.000	34.871	0.000	41.062	-0.000	34.871	0.000	0.000	42.712	40.542	118.575 N	MWD+IFR1+MS
12700.000	90.000	179.600	10057.000	35.384	0.000	41.474	-0.000	35.384	0.000	0.000	42.827	40.852	123.417 M	MWD+IFR1+MS
12800.000	90.000	179.600	10057.000	35.903	0.000	41.893	-0.000	35.903	0.000	0.000	42.978	41.133	129.238 M	MWD+IFR1+MS
12900.000	90.000	179.600	10057.000	36.428	0.000	42.321	-0.000	36.428	0.000	0.000	43.175	41.375	-44.247 N	MWD+IFR1+MS
13000.000	90.000	179.600	10057.000	36.973	0.000	42.768	-0.000	36.973	0.000	0.000	43.433	41.576	-37.470 N	MWD+IFR1+MS
13100.000	90.000	179.600	10057.000	37.523	0.000	43.233	-0.000	37.523	0.000	0.000	43.751	41.736	-31.164 N	MWD+IFR1+MS
13200.000	90.000	179.600	10057.000	38.079	0.000	43.704	-0.000	38.079	0.000	0.000	44.115	41.855	-25.926 N	MWD+IFR1+MS
13300.000	90.000	179.600	10057.000	38.639	0.000	44.193	-0.000	38.639	0.000	0.000	44.524	41.947	-21.682 M	MWD+IFR1+MS
13400.000	90.000	179.600	10057.000	39.217	0.000	44.688	-0.000	39.217	0.000	0.000	44.961	42.018	-18.391 N	MWD+IFR1+MS
13500.000	90.000	179.600	10057.000	39.799	0.000	45.200	-0.000	39.799	0.000	0.000	45.428	42.075	-15.777 N	MWD+IFR1+MS
13600.000	90.000	179.600	10057.000	40.386	0.000	45.717	-0.000	40.386	0.000	0.000	45.911	42.133	-13.769 N	MWD+IFR1+MS
13700.000	90.000	179.600	10057.000	40.976	0.000	46.250	-0.000	40.976	0.000	0.000	46.417	42.172	-12.098 N	MWD+IFR1+MS
13800.000	90.000	179.600	10057.000	41.581	0.000	46.798	-0.000	41.581	0.000	0.000	46.943	42.206	-10.727 N	MWD+IFR1+MS
13900.000	90.000	179.600	10057.000	42.178	0.000	47.350	-0.000	42.178	0.000	0.000	47.478	42.248	-9.629 N	MWD+IFR1+MS
14000.000	90.000	179.600	10057.000	42.790	0.000	47.907	-0.000	42.790	0.000	0.000	48.019	42.274	-8.700 N	MWD+IFR1+MS
14100.000	90.000	179.600	10057.000	43.417	0.000	48.477	-0.000	43.417	0.000	0.000	48.578	42.311	-7.922 N	MWD+IFR1+MS
14200.000	90.000	179.600	10057.000	44.034	0.000	49.062	-0.000	44.034	0.000	0.000	49.152	42.333	-7.236 N	MWD+IFR1+MS
14300.000	90.000	179.600	10057.000	44.665	0.000	49.649	-0.000	44.665	0.000	0.000	49.731	42.366	-6.663 N	MWD+IFR1+MS
14400.000	90.000	179.600	10057.000	45.288	0.000	50.250	-0.000	45.288	0.000	0.000	50.323	42.386	-6.150 N	MWD+IFR1+MS
14500.000	90.000	179.600	10057.000	45.935	0.000	50.863	-0.000	45.935	0.000	0.000	50.930	42.416	-5.706 N	MWD+IFR1+MS
14600.000	90.000	179.600	10057.000	46.573	0.000	51.469	-0.000	46.573	0.000	0.000	51.530	42.446	-5.323 N	MWD+IFR1+MS
14700.000	90.000	179.600	10057.000	47.223	0.000	52.097	-0.000	47.223	0.000	0.000	52.152	42.463	-4.968 N	MWD+IFR1+MS
14800.000	90.000	179.600	10057.000	47.864	0.000	52.726	-0.000	47.864	0.000	0.000	52.778	42.492	-4.661 N	MWD+IFR1+MS
14900.000	90.000	179.600	10057.000	48.518	0.000	53.358	-0.000	48.518	0.000	0.000	53.405	42.519	-4.386 N	MWD+IFR1+MS
15000.000	90.000	179.600	10057.000	49.183	0.000	54.001	-0.000	49.183	0.000	0.000	54.044	42.547	-4.137 N	MWD+IFR1+MS
15100.000	90.000	179.600	10057.000	49.840	0.000	54.654	-0.000	49.840	0.000	0.000	54.694	42.574	-3.909 N	MWD+IFR1+MS
15200.000	90.000	179.600	10057.000	50.507	0.000	55.309	-0.000	50.507	0.000	0.000	55.346	42.600	-3.703 N	MWD+IFR1+MS
15300.000	90.000	179.600	10057.000	51.176	0.000	55.974	-0.000	51.176	0.000	0.000	56.009	42.627	-3.515 N	MWD+IFR1+MS
15400.000	90.000	179.600	10057.000	51.846	0.000	56.640	-0.000	51.846	0.000	0.000	56.672	42.653	-3.344 N	MWD+IFR1+MS
15500.000	90.000	179.600	10057.000	52.526	0.000	57.315	-0.000	52.526	0.000	0.000	57.346	42.679	-3.186 N	MWD+IFR1+MS
15600.000	90.000	179.600	10057.000	53.198	0.000	58.001	-0.000	53.198	0.000	0.000	58.029	42.704	-3.039 N	MWD+IFR1+MS
15700.000	90.000	179.600	10057.000	53.879	0.000	58.686	-0.000	53.879	0.000	0.000	58.713	42.730	-2.906 N	MWD+IFR1+MS

15800.000	90.000	179.600	10057.000	54.562	0.000	59.372	-0.000	54.562	0.000	0.000	59.397	42.767	-2.784	MWD+IFR1+MS
15900.000	90.000	179.600	10057.000	55.254	0.000	60.067	-0.000	55.254	0.000	0.000	60.090	42.792	-2.669	MWD+IFR1+MS
16000.000	90.000	179.600	10057.000	55.937	0.000	60.771	-0.000	55.937	0.000	0.000	60.792	42.817	-2.561	MWD+IFR1+MS
16100.000	90.000	179.600	10057.000	56.630	0.000	61.474	-0.000	56.630	0.000	0.000	61.495	42.853	-2.463	MWD+IFR1+MS
16200.000	90.000	179.600	10057.000	57.324	0.000	62.186	-0.000	57.324	0.000	0.000	62.205	42.878	-2.370	MWD+IFR1+MS
16300.000	90.000	179.600	10057.000	58.026	0.000	62.897	-0.000	58.026	0.000	0.000	62.916	42.914	-2.285	MWD+IFR1+MS
16400.000	90.000	179.600	10057.000	58.720	0.000	63.617	-0.000	58.720	0.000	0.000	63.634	42.939	-2.203	MWD+IFR1+MS
16500.000	90.000	179.600	10057.000	59.422	0.000	64.336	-0.000	59.422	0.000	0.000	64.352	42.975	-2.128	MWD+IFR1+MS
16600.000	90.000	179.600	10057.000	60.125	0.000	65.062	-0.000	60.125	0.000	0.000	65.077	42.999	-2.056	MWD+IFR1+MS
16700.000	90.000	179.600	10057.000	60.828	0.000	65.788	-0.000	60.828	0.000	0.000	65.803	43.035	-1.990	MWD+IFR1+MS
16800.000	90.000	179.600	10057.000	61.530	0.000	66.521	-0.000	61.530	0.000	0.000	66.535	43.071	-1.927	MWD+IFR1+MS
16900.000	90.000	179.600	10057.000	62.241	0.000	67.261	-0.000	62.241	0.000	0.000	67.274	43.095	-1.867	MWD+IFR1+MS
17000.000	90.000	179.600	10057.000	62.952	0.000	68.001	-0.000	62.952	0.000	0.000	68.013	43.130	-1.811	MWD+IFR1+MS
17100.000	90.000	179.600	10057.000	63.663	0.000	68.747	-0.000	63.663	0.000	0.000	68.758	43.166	-1.758	MWD+IFR1+MS
17200.000	90.000	179.600	10057.000	64.382	0.000	69.492	-0.000	64.382	0.000	0.000	69.503	43.201	-1.708	MWD+IFR1+MS
17300.000	90.000	179.600	10057.000	65.092	0.000	70.243	-0.000	65.092	0.000	0.000	70.254	43.237	-1.660	MWD+IFR1+MS
17400.000	90.000	179.600	10057.000	65.810	0.000	70.994	-0.000	65.810	0.000	0.000	71.004	43.272	-1.615	MWD+IFR1+MS
17500.000	90.000	179.600	10057.000	66.528	0.000	71.750	-0.000	66.528	0.000	0.000	71.760	43.307	-1.572	MWD+IFR1+MS
17600.000	90.000	179.600	10057.000	67.246	0.000	72.506	-0.000	67.246	0.000	0.000	72.515	43.343	-1.532	MWD+IFR1+MS
17700.000	90.000	179.600	10057.000	67.971	0.000	73.267	-0.000	67.971	0.000	0.000	73.276	43.378	-1.493	MWD+IFR1+MS
17800.000	90.000	179.600	10057.000	68.695	0.000	74.034	-0.000	68.695	0.000	0.000	74.043	43.413	-1.456	MWD+IFR1+MS
17900.000	90.000	179.600	10057.000	69.419	0.000	74.800	-0.000	69.419	0.000	0.000	74.808	43.448	-1.421	MWD+IFR1+MS
18000.000	90.000	179.600	10057.000	70.143	0.000	75.572	-0.000	70.143	0.000	0.000	75.579	43.494	-1.387	MWD+IFR1+MS
18100.000	90.000	179.600	10057.000	70.873	0.000	76.342	-0.000	70.873	0.000	0.000	76.349	43.529	-1.355	MWD+IFR1+MS
18200.000	90.000	179.600	10057.000	71.596	0.000	77.118	-0.000	71.596	0.000	0.000	77.124	43.564	-1.324	MWD+IFR1+MS
18300.000	90.000	179.600	10057.000	72.326	0.000	77.892	-0.000	72.326	0.000	0.000	77.898	43.610	-1.296	MWD+IFR1+MS
18400.000	90.000	179.600	10057.000	73.055	0.000	78.671	-0.000	73.055	0.000	0.000	78.677	43.645	-1.268	MWD+IFR1+MS
18500.000	90.000	179.600	10057.000	73.790	0.000	79.449	-0.000	73.790	0.000	0.000	79.455	43.680	-1.241	MWD+IFR1+MS
18600.000	90.000	179.600	10057.000	74.518	0.000	80.232	-0.000	74.518	0.000	0.000	80.237	43.726	-1.215	MWD+IFR1+MS
18700.000	90.000	179.600	10057.000	75.253	0.000	81.013	-0.000	75.253	0.000	0.000	81.019	43.761	-1.191	MWD+IFR1+MS
18800.000	90.000	179.600	10057.000	75.987	0.000	81.805	-0.000	75.987	0.000	0.000	81.811	43.807	-1.167	MWD+IFR1+MS
18900.000	90.000	179.600	10057.000	76.727	0.000	82.590	-0.000	76.727	0.000	0.000	82.595	43.853	-1.145	MWD+IFR1+MS
19000.000	90.000	179.600	10057.000	77.460	0.000	83.379	-0.000	77.460	0.000	0.000	83.384	43.887	-1.123	MWD+IFR1+MS

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19100.000	90.000	179.600	10057.000	78.198	0.000	84.173	-0.000	78.198	0.000	0.000	84.178	43.933	-1.102	MWD+IFR1+MS
19200.000	90.000	179.600	10057.000	78.937	0.000	84.966	-0.000	78.937	0.000	0.000	84.970	43.979	-1.082	MWD+IFR1+MS
19300.000	90.000	179.600	10057.000	79.674	0.000	85.762	-0.000	79.674	0.000	0.000	85.766	44.024	-1.063	MWD+IFR1+MS
19400.000	90.000	179.600	10057.000	80.418	0.000	86.557	-0.000	80.418	0.000	0.000	86.561	44.070	-1.045	MWD+IFR1+MS
19500.000	90.000	179.600	10057.000	81.154	0.000	87.356	-0.000	81.154	0.000	0.000	87.360	44.104	-1.026	MWD+IFR1+MS
19600.000	90.000	179.600	10057.000	81.896	0.000	88.160	-0.000	81.896	0.000	0.000	88.164	44.150	-1.010	MWD+IFR1+MS
19700.000	90.000	179.600	10057.000	82.644	0.000	88.962	-0.000	82.644	0.000	0.000	88.965	44.195	-0.993	MWD+IFR1+MS
19800.000	90.000	179.600	10057.000	83.385	0.000	89.762	-0.000	83.385	0.000	0.000	89.765	44.241	-0.977	MWD+IFR1+MS
19900.000	90.000	179.600	10057.000	84.131	0.000	90.566	-0.000	84.131	0.000	0.000	90.569	44.297	-0.961	MWD+IFR1+MS
20000.000	90.000	179.600	10057.000	84.870	0.000	91.374	-0.000	84.870	0.000	0.000	91.377	44.342	-0.947	MWD+IFR1+MS
20100.000	90.000	179.600	10057.000	85.621	0.000	92.180	-0.000	85.621	0.000	0.000	92.183	44.388	-0.932	MWD+IFR1+MS
20200.000	90.000	179.600	10057.000	86.366	0.000	92.990	-0.000	86.366	0.000	0.000	92.993	44.433	-0.919	MWD+IFR1+MS
20300.000	90.000	179.600	10057.000	87.109	0.000	93.799	-0.000	87.109	0.000	0.000	93.801	44.478	-0.905	MWD+IFR1+MS
20400.000	90.000	179.600	10057.000	87.858	0.000	94.611	-0.000	87.858	0.000	0.000	94.613	44.534	-0.892	MWD+IFR1+MS
20500.000	90.000	179.600	10057.000	88.606	0.000	95.421	-0.000	88.606	0.000	0.000	95.424	44.579	-0.880	MWD+IFR1+MS
20600.000	90.000	179.600	10057.000	89.359	0.000	96.235	-0.000	89.359	0.000	0.000	96.238	44.624	-0.868	MWD+IFR1+MS
20700.000	90.000	179.600	10057.000	90.105	0.000	97.052	-0.000	90.105	0.000	0.000	97.055	44.680	-0.856	MWD+IFR1+MS
20800.000	90.000	179.600	10057.000	90.857	0.000	97.868	-0.000	90.857	0.000	0.000	97.871	44.725	-0.845	MWD+IFR1+MS
20900.000	90.000	179.600	10057.000	91.608	0.000	98.687	-0.000	91.608	0.000	0.000	98.690	44.781	-0.834	MWD+IFR1+MS
20975.000	90.000	179.600	10057.000	92.174	0.000	99.304	-0.000	92.174	0.000	0.000	99.306	44.815	-0.826	MWD+IFR1+MS
21000.000	90.000	179.600	10057.000	92.358	0.000	99.500	-0.000	92.358	0.000	0.000	99.502	44.837	-0.824	MWD+IFR1+MS
21025.000	90.000	179.600	10057.000	92.553	0.000	99.711	-0.000	92.553	0.000	0.000	99.713	44.848	-0.821	MWD+IFR1+MS

Plan Targets	508H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 16	10612.65	440416.70	666166.40	6506.00 RECTANGLE
LTP 16	20975.85	430053.70	666230.60	6506.00 RECTANGLE
BHL 16	21025.85	430003.70	666230.90	6506.00 RECTANGLE

Received by QCD: 12/28/2023 4:10:12 PM

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		
	X	

DRAWING NO. HBE0000479

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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 298269

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	298269
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	12/29/2023