

Well Name: POKER LAKE UNIT 18 TWR	Well Location: T24S / R31E / SEC 19 / NWNW /	County or Parish/State:
Well Number: 116H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM025533	Unit or CA Name:	Unit or CA Number: NMNM71016X
US Well Number: 3001554269	Well Status: Approved Application for Permit to Drill	Operator: XTO ENERGY INCORPORATED

Notice of Intent

Sundry ID: 2755466

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/09/2023	Time Sundry Submitted: 09:51
Date proposed operation will begin: 10/09/2023	

Procedure Description: ** First and Last Take Point Changes, Bottomhole Location Change, Directional Plan Change. XTO Energy Inc. requests permission to make the following changes to the original APD: No Additional Surface Disturbance FTP: fr/100'FNL & 990'FWL to 100'FNL & 235'FWL, NMNM025533 LTP: fr/100'FSL & 990'FWL to 100'FSL & 235'FWL, NMLC61705B BHL: fr/50'FSL & 990'FWL to 50'FSL & 235'FWL, Section 30-T24S-R31E NMLC61705B Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan MBS

NOI Attachments

Procedure Description

PLU_18_TWR_116H_Sundry_Attachments_20231027135647.pdf

Well Name: POKER LAKE UNIT 18 TWR	Well Location: T24S / R31E / SEC 19 / NWNW /	County or Parish/State:
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Conditions of Approval

Additional

Sec_19_24S_31E_NMP_Sundry_2755466_Poker_Lake_Unit_18_TWR_116H_COAs_20231025152610.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: JEAN COOPER

Signed on: OCT 27, 2023 01:57 PM

Name: XTO ENERGY INCORPORATED

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND **State:** TX

Phone: (432) 620-6700

Email address: JEAN.COOPER@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: 11/22/2023

Signature: Chris Walls

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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. NMNM025533

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 XTO ENERGY INCORPORATED

3a. Address 222777 SPRINGSWOODS VILLAGE PKWY, SP 3b. Phone No. (include area code)
(817) 870-28004. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 19/T24S/R31E/NMP7. If Unit of CA/Agreement, Name and/or No.
NMNM71016X

8. Well Name and No. POKER LAKE UNIT 18 TWR/116H

9. API Well No. 3001554269

10. Field and Pool or Exploratory Area
WC-015 G-06 S243119C/Bone Spring11. Country or Parish, State
EDDY/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" 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 checked="" 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 recompleat 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 performed 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 recompleat 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.)

** First and Last Take Point Changes, Bottomhole Location Change, Directional Plan Change.

XTO Energy Inc. requests permission to make the following changes to the original APD:

No Additional Surface Disturbance

FTP: fr/100FNL & 990FWL to 100FNL & 235FWL, NMNM025533

LTP: fr/100FSL & 990FWL to 100FSL & 235FWL, NMLC61705B

BHL: fr/50FSL & 990FWL to 50FSL & 235FWL, Section 30-T24S-R31E NMLC61705B

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
JEAN COOPER / Ph: (432) 620-6700Regulatory Analyst
Title(Electronic Submission)
Signature

Date 10/27/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer
Title11/22/2023
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 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 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

Casing/Cement design per the attached drilling program.

Attachments:

C102

Drilling Program

Directional Plan

MBS

Location of Well

0. SHL: NWNW / 30 FNL / 895 FWL / TWSP: 24S / RANGE: 31E / SECTION: 19 / LAT: 32.209985 / LONG: -103.822785 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 330 FNL / 990 FWL / TWSP: 24S / RANGE: 31E / SECTION: 19 / LAT: 32.200981 / LONG: -103.823432 (TVD: 10734 feet, MD: 13800 feet)

PPP: NWNW / 330 FNL / 990 FWL / TWSP: 24S / RANGE: 31E / SECTION: 30 / LAT: 32.193716 / LONG: -103.823427 (TVD: 10734 feet, MD: 16400 feet)

PPP: NWNW / 100 FNL / 990 FWL / TWSP: 24S / RANGE: 31E / SECTION: 19 / LAT: 32.209793 / LONG: -103.822478 (TVD: 10734 feet, MD: 11100 feet)

BHL: SWSW / 50 FSL / 990 FWL / TWSP: 24S / RANGE: 31E / SECTION: 30 / LAT: 32.181153 / LONG: -103.822504 (TVD: 10734 feet, MD: 21496 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Poker Lake Unit 18 TWR 116H
LOCATION:	Sec 19-24S-31E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2755466** on 10/25/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H₂S	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Variance	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
Variance	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> 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 625 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 6754'**
 - 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 **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP**)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing

operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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 integrity 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
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

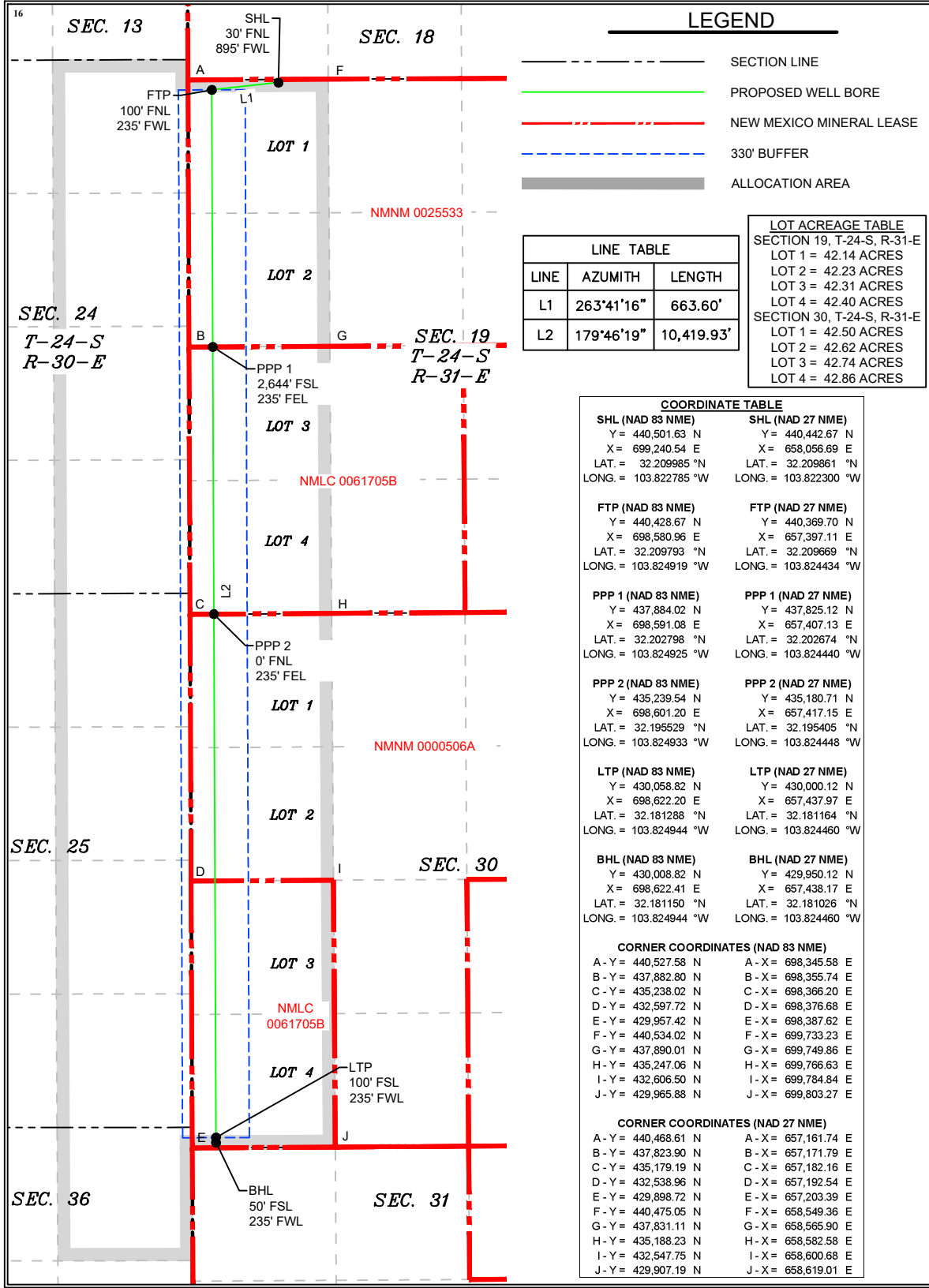
¹ API Number 30-015-54270	² Pool Code 97975	³ Pool Name WC-015 G-06 S243119C; Bone Spring
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 18 TWR	⁶ Well Number 116H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,493'

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
1	19	24S	31E		30	NORTH	895	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
4	30	24S	31E		50	SOUTH	235	WEST	EDDY

¹² Dedicated Acres 339.80	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.

Signature: *Jean A. Cooper* Date: 10/27/2023

Jean A. Cooper
Printed Name
jean.cooper@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.

10-27-2023
Date of Survey

Signature and Seal of Professional Surveyor:



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

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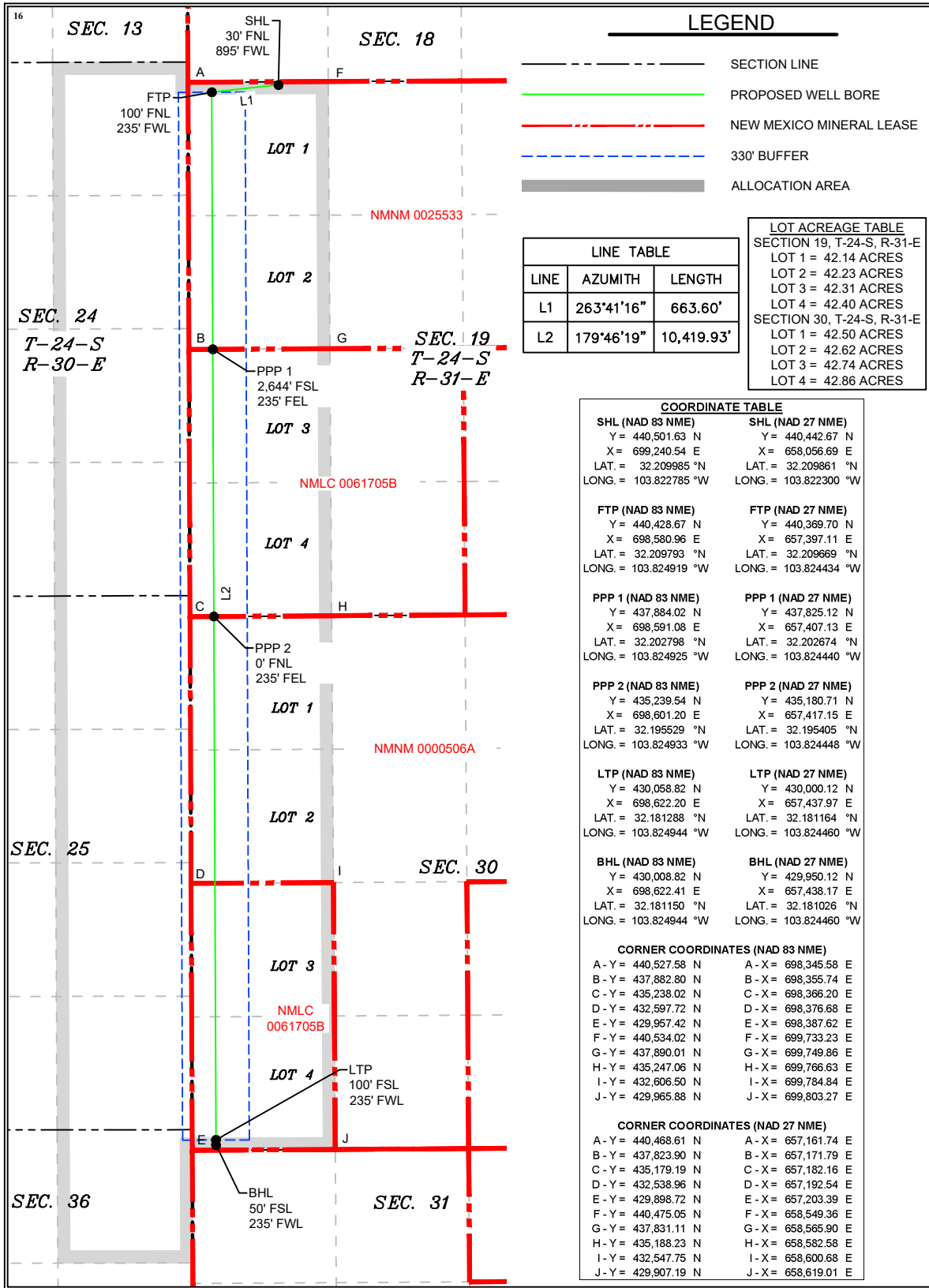
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⁴ Property Code	⁵ Property Name POKER LAKE UNIT 18 TWR	⁶ Well Number 116H
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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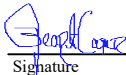
¹² Dedicated Acres 360	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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 10/27/2023
Signature Date

Jean A. Cooper
Printed Name

jean.cooper@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.

10-27-2023

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

KC 618.013003.11-01

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

XTO Energy Inc.
PLU 18 Twin Wells Ranch 116H
Projected TD: 21692' MD / 10783' TVD
SHL: 30' FNL & 895' FWL , Section 19, T24S, R31E
BHL: 50' FSL & 235' FWL , Section 30, 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	525'	Water
Top of Salt	899'	Water
Base of Salt	3991'	Water
Delaware	4255'	Water
Brushy Canyon	6754'	Water/Oil/Gas
Bone Spring	8113'	Water
1st Bone Spring	9064'	Water/Oil/Gas
2nd Bone Spring	9880'	Water/Oil/Gas
3rd Bone Spring	10623'	Water/Oil/Gas
Target/Land Curve	10783'	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 @ 625' (274' 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 9947.94' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21692 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9647.94 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 625'	9.625	40	J-55	BTC	New	1.28	10.07	25.20
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.04	2.52	1.89
8.75	4000' – 9947.94'	7.625	29.7	HC L-80	Flush Joint	New	1.48	1.85	2.30
6.75	0' – 9847.94'	5.5	23	RY P-110	Semi-Premium	New	1.45	2.27	1.96
6.75	9847.94' - 21692'	5.5	23	RY P-110	Semi-Flush	New	1.45	2.07	2.06

- 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

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 +/- 625'

Lead: 100 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 +/- 9947.94'

1st Stage

Optional Lead: 360 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)

TOC: Surface

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

TOC: Brushy Canyon @ 6754

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: 760 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 (6754') 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, 23 New Semi-Flush, RY P-110 casing to be set at +/- 21692'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9647.94 feet

Tail: 830 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10147.94 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 4637 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, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 625'	12.25	FW/Native	8.4-8.9	35-40	NC
625' - 9947.94'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
9947.94' - 21692'	6.75	OBM	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 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 7009 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 18 TWR 116H

Measured Depth: 21692.60 ft

TVD RKB: 10783.00 ft

Location

Cartographic
Reference System: New Mexico East -
NAD 27

Northing: 440442.67 ft

Easting: 658056.69 ft

RKB: 3525.00 ft

Ground Level: 3493.00 ft

North Reference: Grid

Convergence Angle: 0.27 Deg

Site: A

Slot: Poker Lake Unit 18
TWR 116H

Plan Sections

Poker Lake Unit 18 TWR 116H

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		
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00		
1719.80	10.40	314.16	1716.95	32.76	-33.74	2.00	0.00	2.00		
6315.34	10.40	314.16	6237.05	610.46	-628.66	0.00	0.00	0.00		
6835.13	0.00	0.00	6754.00	643.22	-662.40	-2.00	0.00	2.00		
10147.94	0.00	0.00	10066.80	643.22	-662.40	0.00	0.00	0.00		
11272.94	90.00	179.77	10783.00	-72.97	-659.58	8.00	0.00	8.00	FTP 1	
21642.60	90.00	179.77	10783.00	-10442.55	-618.72	0.00	0.00	0.00	LTP 1	
21692.60	90.00	179.77	10783.00	-10492.55	-618.52	0.00	0.00	0.00	BHL 1	

Position Uncertainty

Poker Lake Unit 18 TWR 116H

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	2.310	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	2.326	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	2.348	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	2.375	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	2.408	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	2.445	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	2.487	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	2.534	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	2.584	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	2.638	0.000	0.000	4.752	3.849	128.859	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	128.954	MWD+IFR1+MS
1300.000	2.000	314.158	1299.980	4.714	0.000	5.457	0.000	2.754	0.000	0.000	5.490	4.678	122.176	MWD+IFR1+MS
1400.000	4.000	314.158	1399.838	5.562	0.000	5.788	0.000	2.818	0.000	0.000	5.970	5.374	99.856	MWD+IFR1+MS
1500.000	6.000	314.158	1499.452	6.311	0.000	6.121	0.000	2.886	0.000	0.000	6.601	5.826	81.376	MWD+IFR1+MS
1600.000	8.000	314.158	1598.702	6.991	0.000	6.457	0.000	2.961	0.000	0.000	7.259	6.188	73.260	MWD+IFR1+MS
1700.000	10.000	314.158	1697.465	7.618	0.000	6.797	0.000	3.046	0.000	0.000	7.895	6.527	69.430	MWD+IFR1+MS
1719.795	10.396	314.158	1716.948	7.672	0.000	6.859	0.000	3.055	0.000	0.000	7.956	6.591	69.401	MWD+IFR1+MS
1800.000	10.396	314.158	1795.836	7.908	0.000	7.119	0.000	3.115	0.000	0.000	8.191	6.850	69.708	MWD+IFR1+MS
1900.000	10.396	314.158	1894.194	8.215	0.000	7.462	0.000	3.194	0.000	0.000	8.505	7.182	70.525	MWD+IFR1+MS
2000.000	10.396	314.158	1992.553	8.532	0.000	7.813	0.000	3.276	0.000	0.000	8.832	7.519	71.416	MWD+IFR1+MS
2100.000	10.396	314.158	2090.911	8.854	0.000	8.166	0.000	3.361	0.000	0.000	9.163	7.858	72.263	MWD+IFR1+MS
2200.000	10.396	314.158	2189.270	9.181	0.000	8.521	0.000	3.448	0.000	0.000	9.499	8.200	73.068	MWD+IFR1+MS
2300.000	10.396	314.158	2287.628	9.511	0.000	8.879	0.000	3.538	0.000	0.000	9.838	8.544	73.832	MWD+IFR1+MS
2400.000	10.396	314.158	2385.987	9.845	0.000	9.238	0.000	3.630	0.000	0.000	10.180	8.891	74.559	MWD+IFR1+MS
2500.000	10.396	314.158	2484.345	10.183	0.000	9.599	0.000	3.723	0.000	0.000	10.525	9.239	75.250	MWD+IFR1+MS
2600.000	10.396	314.158	2582.704	10.523	0.000	9.961	0.000	3.819	0.000	0.000	10.873	9.589	75.908	MWD+IFR1+MS
2700.000	10.396	314.158	2681.062	10.866	0.000	10.324	0.000	3.916	0.000	0.000	11.223	9.940	76.534	MWD+IFR1+MS
2800.000	10.396	314.158	2779.420	11.212	0.000	10.689	0.000	4.016	0.000	0.000	11.575	10.293	77.132	MWD+IFR1+MS
2900.000	10.396	314.158	2877.779	11.559	0.000	11.054	0.000	4.117	0.000	0.000	11.929	10.647	77.701	MWD+IFR1+MS

3000.000	10.396	314.158	2976.137	11.909	0.000	11.420	0.000	4.219	0.000	0.000	12.285	11.002	78.245	MWD+IFR1+MS
3100.000	10.396	314.158	3074.496	12.261	0.000	11.788	0.000	4.323	0.000	0.000	12.642	11.358	78.765	MWD+IFR1+MS
3200.000	10.396	314.158	3172.854	12.614	0.000	12.155	0.000	4.429	0.000	0.000	13.001	11.715	79.262	MWD+IFR1+MS
3300.000	10.396	314.158	3271.213	12.969	0.000	12.524	0.000	4.536	0.000	0.000	13.361	12.073	79.737	MWD+IFR1+MS
3400.000	10.396	314.158	3369.571	13.325	0.000	12.893	0.000	4.645	0.000	0.000	13.722	12.432	80.193	MWD+IFR1+MS
3500.000	10.396	314.158	3467.929	13.683	0.000	13.263	0.000	4.755	0.000	0.000	14.084	12.792	80.629	MWD+IFR1+MS
3600.000	10.396	314.158	3566.288	14.041	0.000	13.633	0.000	4.867	0.000	0.000	14.448	13.152	81.047	MWD+IFR1+MS
3700.000	10.396	314.158	3664.646	14.401	0.000	14.004	0.000	4.980	0.000	0.000	14.812	13.513	81.449	MWD+IFR1+MS
3800.000	10.396	314.158	3763.005	14.762	0.000	14.375	0.000	5.095	0.000	0.000	15.177	13.875	81.835	MWD+IFR1+MS
3900.000	10.396	314.158	3861.363	15.124	0.000	14.747	0.000	5.211	0.000	0.000	15.543	14.237	82.206	MWD+IFR1+MS
4000.000	10.396	314.158	3959.722	15.487	0.000	15.119	0.000	5.328	0.000	0.000	15.910	14.599	82.563	MWD+IFR1+MS
4100.000	10.396	314.158	4058.080	15.851	0.000	15.491	0.000	5.448	0.000	0.000	16.278	14.962	82.906	MWD+IFR1+MS
4200.000	10.396	314.158	4156.439	16.215	0.000	15.863	0.000	5.568	0.000	0.000	16.646	15.326	83.237	MWD+IFR1+MS
4300.000	10.396	314.158	4254.797	16.580	0.000	16.236	0.000	5.690	0.000	0.000	17.014	15.690	83.556	MWD+IFR1+MS
4400.000	10.396	314.158	4353.155	16.946	0.000	16.610	0.000	5.814	0.000	0.000	17.384	16.054	83.864	MWD+IFR1+MS
4500.000	10.396	314.158	4451.514	17.313	0.000	16.983	0.000	5.939	0.000	0.000	17.753	16.419	84.160	MWD+IFR1+MS
4600.000	10.396	314.158	4549.872	17.680	0.000	17.357	0.000	6.066	0.000	0.000	18.124	16.784	84.447	MWD+IFR1+MS
4700.000	10.396	314.158	4648.231	18.047	0.000	17.731	0.000	6.194	0.000	0.000	18.495	17.149	84.724	MWD+IFR1+MS
4800.000	10.396	314.158	4746.589	18.416	0.000	18.105	0.000	6.324	0.000	0.000	18.866	17.515	84.991	MWD+IFR1+MS
4900.000	10.396	314.158	4844.948	18.784	0.000	18.479	0.000	6.455	0.000	0.000	19.237	17.881	85.250	MWD+IFR1+MS
5000.000	10.396	314.158	4943.306	19.153	0.000	18.854	0.000	6.588	0.000	0.000	19.609	18.248	85.500	MWD+IFR1+MS
5100.000	10.396	314.158	5041.664	19.523	0.000	19.229	0.000	6.723	0.000	0.000	19.982	18.614	85.742	MWD+IFR1+MS
5200.000	10.396	314.158	5140.023	19.893	0.000	19.603	0.000	6.860	0.000	0.000	20.354	18.981	85.977	MWD+IFR1+MS
5300.000	10.396	314.158	5238.381	20.263	0.000	19.979	0.000	6.998	0.000	0.000	20.727	19.348	86.204	MWD+IFR1+MS
5400.000	10.396	314.158	5336.740	20.634	0.000	20.354	0.000	7.138	0.000	0.000	21.101	19.715	86.425	MWD+IFR1+MS
5500.000	10.396	314.158	5435.098	21.005	0.000	20.729	0.000	7.280	0.000	0.000	21.474	20.083	86.638	MWD+IFR1+MS
5600.000	10.396	314.158	5533.457	21.377	0.000	21.105	0.000	7.423	0.000	0.000	21.848	20.451	86.846	MWD+IFR1+MS
5700.000	10.396	314.158	5631.815	21.749	0.000	21.480	0.000	7.569	0.000	0.000	22.222	20.819	87.047	MWD+IFR1+MS
5800.000	10.396	314.158	5730.173	22.121	0.000	21.856	0.000	7.716	0.000	0.000	22.597	21.187	87.242	MWD+IFR1+MS
5900.000	10.396	314.158	5828.532	22.493	0.000	22.232	0.000	7.865	0.000	0.000	22.971	21.555	87.431	MWD+IFR1+MS
6000.000	10.396	314.158	5926.890	22.866	0.000	22.608	0.000	8.016	0.000	0.000	23.346	21.924	87.615	MWD+IFR1+MS
6100.000	10.396	314.158	6025.249	23.239	0.000	22.984	0.000	8.169	0.000	0.000	23.721	22.292	87.794	MWD+IFR1+MS
6200.000	10.396	314.158	6123.607	23.612	0.000	23.360	0.000	8.324	0.000	0.000	24.097	22.661	87.968	MWD+IFR1+MS

6300.000	10.396	314.158	6221.966	23.985	0.000	23.736	0.000	8.481	0.000	0.000	24.472	23.030	88.137	MWD+IFR1+MS
6315.338	10.396	314.158	6237.052	24.041	0.000	23.793	0.000	8.505	0.000	0.000	24.527	23.087	88.159	MWD+IFR1+MS
6400.000	8.703	314.158	6320.538	24.381	0.000	24.104	0.000	8.640	0.000	0.000	24.844	23.401	88.000	MWD+IFR1+MS
6500.000	6.703	314.158	6419.630	24.826	0.000	24.470	0.000	8.802	0.000	0.000	25.271	23.786	86.463	MWD+IFR1+MS
6600.000	4.703	314.158	6519.130	25.251	0.000	24.830	0.000	8.959	0.000	0.000	25.706	24.166	84.754	MWD+IFR1+MS
6700.000	2.703	314.158	6618.917	25.639	0.000	25.182	0.000	9.111	0.000	0.000	26.134	24.537	83.174	MWD+IFR1+MS
6800.000	0.703	314.158	6718.867	25.989	0.000	25.527	0.000	9.259	0.000	0.000	26.555	24.899	81.725	MWD+IFR1+MS
6835.134	0.000	0.000	6754.000	26.640	0.000	25.053	0.000	9.311	0.000	0.000	26.674	25.017	81.709	MWD+IFR1+MS
6900.000	0.000	0.000	6818.866	26.853	0.000	25.271	0.000	9.406	0.000	0.000	26.885	25.236	81.836	MWD+IFR1+MS
7000.000	0.000	0.000	6918.866	27.181	0.000	25.610	0.000	9.554	0.000	0.000	27.211	25.578	82.097	MWD+IFR1+MS
7100.000	0.000	0.000	7018.866	27.512	0.000	25.952	0.000	9.706	0.000	0.000	27.539	25.924	82.429	MWD+IFR1+MS
7200.000	0.000	0.000	7118.866	27.844	0.000	26.295	0.000	9.860	0.000	0.000	27.869	26.269	82.761	MWD+IFR1+MS
7300.000	0.000	0.000	7218.866	28.177	0.000	26.638	0.000	10.017	0.000	0.000	28.199	26.615	83.090	MWD+IFR1+MS
7400.000	0.000	0.000	7318.866	28.510	0.000	26.982	0.000	10.176	0.000	0.000	28.530	26.961	83.418	MWD+IFR1+MS
7500.000	0.000	0.000	7418.866	28.844	0.000	27.326	0.000	10.339	0.000	0.000	28.861	27.307	83.744	MWD+IFR1+MS
7600.000	0.000	0.000	7518.866	29.178	0.000	27.670	0.000	10.504	0.000	0.000	29.194	27.653	84.068	MWD+IFR1+MS
7700.000	0.000	0.000	7618.866	29.513	0.000	28.015	0.000	10.672	0.000	0.000	29.527	28.000	84.390	MWD+IFR1+MS
7800.000	0.000	0.000	7718.866	29.848	0.000	28.360	0.000	10.843	0.000	0.000	29.861	28.347	84.710	MWD+IFR1+MS
7900.000	0.000	0.000	7818.866	30.184	0.000	28.705	0.000	11.017	0.000	0.000	30.195	28.694	85.028	MWD+IFR1+MS
8000.000	0.000	0.000	7918.866	30.521	0.000	29.051	0.000	11.194	0.000	0.000	30.530	29.041	85.344	MWD+IFR1+MS
8100.000	0.000	0.000	8018.866	30.858	0.000	29.397	0.000	11.373	0.000	0.000	30.866	29.388	85.658	MWD+IFR1+MS
8200.000	0.000	0.000	8118.866	31.195	0.000	29.743	0.000	11.556	0.000	0.000	31.202	29.736	85.969	MWD+IFR1+MS
8300.000	0.000	0.000	8218.866	31.533	0.000	30.090	0.000	11.741	0.000	0.000	31.539	30.084	86.278	MWD+IFR1+MS
8400.000	0.000	0.000	8318.866	31.871	0.000	30.437	0.000	11.930	0.000	0.000	31.876	30.432	86.585	MWD+IFR1+MS
8500.000	0.000	0.000	8418.866	32.210	0.000	30.784	0.000	12.121	0.000	0.000	32.214	30.780	86.890	MWD+IFR1+MS
8600.000	0.000	0.000	8518.866	32.550	0.000	31.131	0.000	12.316	0.000	0.000	32.553	31.128	87.192	MWD+IFR1+MS
8700.000	0.000	0.000	8618.866	32.889	0.000	31.479	0.000	12.513	0.000	0.000	32.892	31.476	87.491	MWD+IFR1+MS
8800.000	0.000	0.000	8718.866	33.229	0.000	31.827	0.000	12.714	0.000	0.000	33.231	31.825	87.788	MWD+IFR1+MS
8900.000	0.000	0.000	8818.866	33.570	0.000	32.175	0.000	12.917	0.000	0.000	33.571	32.173	88.083	MWD+IFR1+MS
9000.000	0.000	0.000	8918.866	33.910	0.000	32.523	0.000	13.124	0.000	0.000	33.912	32.522	88.375	MWD+IFR1+MS
9100.000	0.000	0.000	9018.866	34.252	0.000	32.872	0.000	13.333	0.000	0.000	34.252	32.871	88.665	MWD+IFR1+MS
9200.000	0.000	0.000	9118.866	34.593	0.000	33.220	0.000	13.546	0.000	0.000	34.594	33.220	88.951	MWD+IFR1+MS
9300.000	0.000	0.000	9218.866	34.935	0.000	33.569	0.000	13.761	0.000	0.000	34.935	33.569	89.236	MWD+IFR1+MS

9400.000	0.000	0.000	9318.866	35.277	0.000	33.918	0.000	13.980	0.000	0.000	35.277	33.918	89.517	MWD+IFR1+MS
9500.000	0.000	0.000	9418.866	35.620	0.000	34.268	0.000	14.202	0.000	0.000	35.620	34.268	89.796	MWD+IFR1+MS
9600.000	0.000	0.000	9518.866	35.962	0.000	34.617	0.000	14.427	0.000	0.000	35.962	34.617	90.073	MWD+IFR1+MS
9700.000	0.000	0.000	9618.866	36.306	0.000	34.967	0.000	14.654	0.000	0.000	36.306	34.967	90.346	MWD+IFR1+MS
9800.000	0.000	0.000	9718.866	36.649	0.000	35.317	0.000	14.885	0.000	0.000	36.649	35.317	90.617	MWD+IFR1+MS
9900.000	0.000	0.000	9818.866	36.993	0.000	35.667	0.000	15.119	0.000	0.000	36.993	35.667	90.885	MWD+IFR1+MS
10000.000	0.000	0.000	9918.866	37.337	0.000	36.017	0.000	15.356	0.000	0.000	37.337	36.017	91.151	MWD+IFR1+MS
10100.000	0.000	0.000	10018.866	37.681	0.000	36.368	0.000	15.597	0.000	0.000	37.682	36.367	91.413	MWD+IFR1+MS
10147.936	0.000	0.000	10066.803	37.844	0.000	36.534	0.000	15.713	0.000	0.000	37.845	36.533	91.463	MWD+IFR1+MS
10200.000	4.165	179.774	10118.821	37.782	0.000	36.705	-0.000	15.839	0.000	0.000	38.029	36.704	91.486	MWD+IFR1+MS
10300.000	12.165	179.774	10217.727	37.804	0.000	37.011	-0.000	16.115	0.000	0.000	38.948	37.007	92.270	MWD+IFR1+MS
10400.000	20.165	179.774	10313.695	37.718	0.000	37.298	-0.000	16.539	0.000	0.000	40.214	37.290	92.857	MWD+IFR1+MS
10500.000	28.165	179.774	10404.858	37.092	0.000	37.563	-0.000	17.169	0.000	0.000	41.318	37.549	93.196	MWD+IFR1+MS
10600.000	36.165	179.774	10489.441	36.007	0.000	37.803	-0.000	18.045	0.000	0.000	42.241	37.784	93.450	MWD+IFR1+MS
10700.000	44.165	179.774	10565.798	34.571	0.000	38.018	-0.000	19.175	0.000	0.000	42.977	37.994	93.663	MWD+IFR1+MS
10800.000	52.165	179.774	10632.442	32.927	0.000	38.208	-0.000	20.534	0.000	0.000	43.529	38.179	93.845	MWD+IFR1+MS
10900.000	60.165	179.774	10688.077	31.254	0.000	38.373	-0.000	22.077	0.000	0.000	43.909	38.341	93.991	MWD+IFR1+MS
11000.000	68.165	179.774	10731.620	29.769	0.000	38.513	-0.000	23.748	0.000	0.000	44.141	38.479	94.085	MWD+IFR1+MS
11100.000	76.165	179.774	10762.222	28.707	0.000	38.630	-0.000	25.485	0.000	0.000	44.255	38.595	94.098	MWD+IFR1+MS
11200.000	84.165	179.774	10779.289	28.288	0.000	38.721	-0.000	27.229	0.000	0.000	44.290	38.689	93.993	MWD+IFR1+MS
11272.936	90.000	179.774	10783.000	27.966	0.000	38.770	-0.000	27.966	0.000	0.000	44.292	38.740	93.806	MWD+IFR1+MS
11300.000	90.000	179.774	10783.000	28.026	0.000	38.784	-0.000	28.026	0.000	0.000	44.292	38.756	93.721	MWD+IFR1+MS
11400.000	90.000	179.774	10783.000	28.204	0.000	38.858	-0.000	28.204	0.000	0.000	44.291	38.834	93.417	MWD+IFR1+MS
11500.000	90.000	179.774	10783.000	28.406	0.000	38.954	-0.000	28.406	0.000	0.000	44.291	38.934	93.118	MWD+IFR1+MS
11600.000	90.000	179.774	10783.000	28.628	0.000	39.069	-0.000	28.628	0.000	0.000	44.292	39.053	92.818	MWD+IFR1+MS
11700.000	90.000	179.774	10783.000	28.871	0.000	39.204	-0.000	28.871	0.000	0.000	44.293	39.192	92.515	MWD+IFR1+MS
11800.000	90.000	179.774	10783.000	29.132	0.000	39.358	-0.000	29.132	0.000	0.000	44.296	39.349	92.206	MWD+IFR1+MS
11900.000	90.000	179.774	10783.000	29.412	0.000	39.531	-0.000	29.412	0.000	0.000	44.299	39.525	91.885	MWD+IFR1+MS
12000.000	90.000	179.774	10783.000	29.710	0.000	39.723	-0.000	29.710	0.000	0.000	44.304	39.719	91.549	MWD+IFR1+MS
12100.000	90.000	179.774	10783.000	30.025	0.000	39.934	-0.000	30.025	0.000	0.000	44.309	39.931	91.192	MWD+IFR1+MS
12200.000	90.000	179.774	10783.000	30.358	0.000	40.163	-0.000	30.358	0.000	0.000	44.315	40.161	90.805	MWD+IFR1+MS
12300.000	90.000	179.774	10783.000	30.707	0.000	40.409	-0.000	30.707	0.000	0.000	44.322	40.409	90.380	MWD+IFR1+MS
12400.000	90.000	179.774	10783.000	31.071	0.000	40.674	-0.000	31.071	0.000	0.000	44.330	40.674	89.904	MWD+IFR1+MS

12500.000	90.000	179.774	10783.000	31.452	0.000	40.955	-0.000	31.452	0.000	0.000	44.339	40.955	89.356	MWD+IFR1+MS
12600.000	90.000	179.774	10783.000	31.847	0.000	41.253	-0.000	31.847	0.000	0.000	44.350	41.252	88.713	MWD+IFR1+MS
12700.000	90.000	179.774	10783.000	32.256	0.000	41.568	-0.000	32.256	0.000	0.000	44.362	41.565	87.933	MWD+IFR1+MS
12800.000	90.000	179.774	10783.000	32.679	0.000	41.899	-0.000	32.679	0.000	0.000	44.376	41.893	86.954	MWD+IFR1+MS
12900.000	90.000	179.774	10783.000	33.115	0.000	42.246	-0.000	33.115	0.000	0.000	44.392	42.235	85.673	MWD+IFR1+MS
13000.000	90.000	179.774	10783.000	33.564	0.000	42.608	-0.000	33.564	0.000	0.000	44.412	42.589	83.904	MWD+IFR1+MS
13100.000	90.000	179.774	10783.000	34.025	0.000	42.985	-0.000	34.025	0.000	0.000	44.437	42.952	81.287	MWD+IFR1+MS
13200.000	90.000	179.774	10783.000	34.498	0.000	43.377	-0.000	34.498	0.000	0.000	44.474	43.320	77.052	MWD+IFR1+MS
13300.000	90.000	179.774	10783.000	34.982	0.000	43.783	-0.000	34.982	0.000	0.000	44.534	43.679	69.460	MWD+IFR1+MS
13400.000	90.000	179.774	10783.000	35.477	0.000	44.203	-0.000	35.477	0.000	0.000	44.655	43.992	55.524	MWD+IFR1+MS
13500.000	90.000	179.774	10783.000	35.982	0.000	44.636	-0.000	35.982	0.000	0.000	44.897	44.197	37.511	MWD+IFR1+MS
13600.000	90.000	179.774	10783.000	36.497	0.000	45.082	-0.000	36.497	0.000	0.000	45.255	44.301	25.035	MWD+IFR1+MS
13700.000	90.000	179.774	10783.000	37.021	0.000	45.541	-0.000	37.021	0.000	0.000	45.673	44.356	18.340	MWD+IFR1+MS
13800.000	90.000	179.774	10783.000	37.555	0.000	46.013	-0.000	37.555	0.000	0.000	46.123	44.393	14.542	MWD+IFR1+MS
13900.000	90.000	179.774	10783.000	38.097	0.000	46.496	-0.000	38.097	0.000	0.000	46.593	44.422	12.160	MWD+IFR1+MS
14000.000	90.000	179.774	10783.000	38.648	0.000	46.990	-0.000	38.648	0.000	0.000	47.080	44.448	10.538	MWD+IFR1+MS
14100.000	90.000	179.774	10783.000	39.206	0.000	47.496	-0.000	39.206	0.000	0.000	47.580	44.471	9.363	MWD+IFR1+MS
14200.000	90.000	179.774	10783.000	39.772	0.000	48.013	-0.000	39.772	0.000	0.000	48.092	44.493	8.472	MWD+IFR1+MS
14300.000	90.000	179.774	10783.000	40.346	0.000	48.540	-0.000	40.346	0.000	0.000	48.616	44.515	7.770	MWD+IFR1+MS
14400.000	90.000	179.774	10783.000	40.926	0.000	49.077	-0.000	40.926	0.000	0.000	49.151	44.536	7.202	MWD+IFR1+MS
14500.000	90.000	179.774	10783.000	41.513	0.000	49.625	-0.000	41.513	0.000	0.000	49.696	44.558	6.731	MWD+IFR1+MS
14600.000	90.000	179.774	10783.000	42.107	0.000	50.181	-0.000	42.107	0.000	0.000	50.251	44.579	6.333	MWD+IFR1+MS
14700.000	90.000	179.774	10783.000	42.707	0.000	50.747	-0.000	42.707	0.000	0.000	50.815	44.601	5.992	MWD+IFR1+MS
14800.000	90.000	179.774	10783.000	43.313	0.000	51.322	-0.000	43.313	0.000	0.000	51.389	44.624	5.695	MWD+IFR1+MS
14900.000	90.000	179.774	10783.000	43.924	0.000	51.905	-0.000	43.924	0.000	0.000	51.971	44.646	5.434	MWD+IFR1+MS
15000.000	90.000	179.774	10783.000	44.541	0.000	52.496	-0.000	44.541	0.000	0.000	52.562	44.669	5.202	MWD+IFR1+MS
15100.000	90.000	179.774	10783.000	45.163	0.000	53.096	-0.000	45.163	0.000	0.000	53.161	44.693	4.994	MWD+IFR1+MS
15200.000	90.000	179.774	10783.000	45.790	0.000	53.703	-0.000	45.790	0.000	0.000	53.767	44.717	4.806	MWD+IFR1+MS
15300.000	90.000	179.774	10783.000	46.422	0.000	54.318	-0.000	46.422	0.000	0.000	54.381	44.741	4.635	MWD+IFR1+MS
15400.000	90.000	179.774	10783.000	47.058	0.000	54.940	-0.000	47.058	0.000	0.000	55.003	44.766	4.479	MWD+IFR1+MS
15500.000	90.000	179.774	10783.000	47.699	0.000	55.569	-0.000	47.699	0.000	0.000	55.631	44.792	4.336	MWD+IFR1+MS
15600.000	90.000	179.774	10783.000	48.344	0.000	56.205	-0.000	48.344	0.000	0.000	56.266	44.818	4.203	MWD+IFR1+MS
15700.000	90.000	179.774	10783.000	48.993	0.000	56.847	-0.000	48.993	0.000	0.000	56.908	44.844	4.080	MWD+IFR1+MS

15800.000	90.000	179.774	10783.000	49.647	0.000	57.496	-0.000	49.647	0.000	0.000	57.556	44.871	3.966	MWD+IFR1+MS
15900.000	90.000	179.774	10783.000	50.303	0.000	58.151	-0.000	50.303	0.000	0.000	58.211	44.898	3.859	MWD+IFR1+MS
16000.000	90.000	179.774	10783.000	50.964	0.000	58.812	-0.000	50.964	0.000	0.000	58.871	44.926	3.758	MWD+IFR1+MS
16100.000	90.000	179.774	10783.000	51.628	0.000	59.478	-0.000	51.628	0.000	0.000	59.537	44.955	3.664	MWD+IFR1+MS
16200.000	90.000	179.774	10783.000	52.295	0.000	60.150	-0.000	52.295	0.000	0.000	60.208	44.984	3.575	MWD+IFR1+MS
16300.000	90.000	179.774	10783.000	52.966	0.000	60.827	-0.000	52.966	0.000	0.000	60.885	45.014	3.492	MWD+IFR1+MS
16400.000	90.000	179.774	10783.000	53.639	0.000	61.509	-0.000	53.639	0.000	0.000	61.567	45.044	3.412	MWD+IFR1+MS
16500.000	90.000	179.774	10783.000	54.316	0.000	62.197	-0.000	54.316	0.000	0.000	62.254	45.074	3.337	MWD+IFR1+MS
16600.000	90.000	179.774	10783.000	54.996	0.000	62.889	-0.000	54.996	0.000	0.000	62.946	45.106	3.265	MWD+IFR1+MS
16700.000	90.000	179.774	10783.000	55.678	0.000	63.586	-0.000	55.678	0.000	0.000	63.642	45.137	3.197	MWD+IFR1+MS
16800.000	90.000	179.774	10783.000	56.363	0.000	64.287	-0.000	56.363	0.000	0.000	64.343	45.169	3.132	MWD+IFR1+MS
16900.000	90.000	179.774	10783.000	57.050	0.000	64.993	-0.000	57.050	0.000	0.000	65.048	45.202	3.070	MWD+IFR1+MS
17000.000	90.000	179.774	10783.000	57.740	0.000	65.703	-0.000	57.740	0.000	0.000	65.758	45.235	3.010	MWD+IFR1+MS
17100.000	90.000	179.774	10783.000	58.433	0.000	66.417	-0.000	58.433	0.000	0.000	66.472	45.269	2.954	MWD+IFR1+MS
17200.000	90.000	179.774	10783.000	59.127	0.000	67.135	-0.000	59.127	0.000	0.000	67.189	45.303	2.899	MWD+IFR1+MS
17300.000	90.000	179.774	10783.000	59.824	0.000	67.857	-0.000	59.824	0.000	0.000	67.911	45.338	2.846	MWD+IFR1+MS
17400.000	90.000	179.774	10783.000	60.523	0.000	68.582	-0.000	60.523	0.000	0.000	68.636	45.374	2.796	MWD+IFR1+MS
17500.000	90.000	179.774	10783.000	61.224	0.000	69.311	-0.000	61.224	0.000	0.000	69.365	45.410	2.747	MWD+IFR1+MS
17600.000	90.000	179.774	10783.000	61.928	0.000	70.044	-0.000	61.928	0.000	0.000	70.097	45.446	2.701	MWD+IFR1+MS
17700.000	90.000	179.774	10783.000	62.633	0.000	70.780	-0.000	62.633	0.000	0.000	70.833	45.483	2.656	MWD+IFR1+MS
17800.000	90.000	179.774	10783.000	63.340	0.000	71.519	-0.000	63.340	0.000	0.000	71.572	45.520	2.612	MWD+IFR1+MS
17900.000	90.000	179.774	10783.000	64.048	0.000	72.262	-0.000	64.048	0.000	0.000	72.314	45.558	2.570	MWD+IFR1+MS
18000.000	90.000	179.774	10783.000	64.759	0.000	73.007	-0.000	64.759	0.000	0.000	73.059	45.597	2.529	MWD+IFR1+MS
18100.000	90.000	179.774	10783.000	65.471	0.000	73.756	-0.000	65.471	0.000	0.000	73.807	45.636	2.490	MWD+IFR1+MS
18200.000	90.000	179.774	10783.000	66.185	0.000	74.507	-0.000	66.185	0.000	0.000	74.558	45.675	2.452	MWD+IFR1+MS
18300.000	90.000	179.774	10783.000	66.901	0.000	75.261	-0.000	66.901	0.000	0.000	75.312	45.715	2.415	MWD+IFR1+MS
18400.000	90.000	179.774	10783.000	67.618	0.000	76.018	-0.000	67.618	0.000	0.000	76.068	45.756	2.379	MWD+IFR1+MS
18500.000	90.000	179.774	10783.000	68.336	0.000	76.778	-0.000	68.336	0.000	0.000	76.828	45.797	2.345	MWD+IFR1+MS
18600.000	90.000	179.774	10783.000	69.056	0.000	77.540	-0.000	69.056	0.000	0.000	77.589	45.838	2.311	MWD+IFR1+MS
18700.000	90.000	179.774	10783.000	69.777	0.000	78.305	-0.000	69.777	0.000	0.000	78.354	45.880	2.278	MWD+IFR1+MS
18800.000	90.000	179.774	10783.000	70.500	0.000	79.072	-0.000	70.500	0.000	0.000	79.120	45.923	2.247	MWD+IFR1+MS
18900.000	90.000	179.774	10783.000	71.224	0.000	79.841	-0.000	71.224	0.000	0.000	79.889	45.966	2.216	MWD+IFR1+MS
19000.000	90.000	179.774	10783.000	71.949	0.000	80.613	-0.000	71.949	0.000	0.000	80.661	46.009	2.186	MWD+IFR1+MS

19100.000	90.000	179.774	10783.000	72.676	0.000	81.387	-0.000	72.676	0.000	0.000	81.434	46.053	2.156	MWD+IFR1+MS
19200.000	90.000	179.774	10783.000	73.403	0.000	82.163	-0.000	73.403	0.000	0.000	82.210	46.098	2.128	MWD+IFR1+MS
19300.000	90.000	179.774	10783.000	74.132	0.000	82.941	-0.000	74.132	0.000	0.000	82.988	46.143	2.100	MWD+IFR1+MS
19400.000	90.000	179.774	10783.000	74.862	0.000	83.721	-0.000	74.862	0.000	0.000	83.768	46.188	2.073	MWD+IFR1+MS
19500.000	90.000	179.774	10783.000	75.593	0.000	84.503	-0.000	75.593	0.000	0.000	84.550	46.234	2.047	MWD+IFR1+MS
19600.000	90.000	179.774	10783.000	76.326	0.000	85.287	-0.000	76.326	0.000	0.000	85.333	46.281	2.021	MWD+IFR1+MS
19700.000	90.000	179.774	10783.000	77.059	0.000	86.073	-0.000	77.059	0.000	0.000	86.119	46.328	1.996	MWD+IFR1+MS
19800.000	90.000	179.774	10783.000	77.793	0.000	86.861	-0.000	77.793	0.000	0.000	86.906	46.375	1.971	MWD+IFR1+MS
19900.000	90.000	179.774	10783.000	78.528	0.000	87.650	-0.000	78.528	0.000	0.000	87.696	46.423	1.948	MWD+IFR1+MS
20000.000	90.000	179.774	10783.000	79.264	0.000	88.441	-0.000	79.264	0.000	0.000	88.487	46.472	1.924	MWD+IFR1+MS
20100.000	90.000	179.774	10783.000	80.001	0.000	89.234	-0.000	80.001	0.000	0.000	89.279	46.521	1.901	MWD+IFR1+MS
20200.000	90.000	179.774	10783.000	80.739	0.000	90.029	-0.000	80.739	0.000	0.000	90.073	46.570	1.879	MWD+IFR1+MS
20300.000	90.000	179.774	10783.000	81.478	0.000	90.825	-0.000	81.478	0.000	0.000	90.869	46.620	1.857	MWD+IFR1+MS
20400.000	90.000	179.774	10783.000	82.218	0.000	91.623	-0.000	82.218	0.000	0.000	91.667	46.670	1.836	MWD+IFR1+MS
20500.000	90.000	179.774	10783.000	82.958	0.000	92.422	-0.000	82.958	0.000	0.000	92.466	46.721	1.815	MWD+IFR1+MS
20600.000	90.000	179.774	10783.000	83.700	0.000	93.223	-0.000	83.700	0.000	0.000	93.266	46.773	1.795	MWD+IFR1+MS
20700.000	90.000	179.774	10783.000	84.442	0.000	94.025	-0.000	84.442	0.000	0.000	94.068	46.825	1.775	MWD+IFR1+MS
20800.000	90.000	179.774	10783.000	85.185	0.000	94.828	-0.000	85.185	0.000	0.000	94.871	46.877	1.755	MWD+IFR1+MS
20900.000	90.000	179.774	10783.000	85.928	0.000	95.633	-0.000	85.928	0.000	0.000	95.676	46.930	1.736	MWD+IFR1+MS
21000.000	90.000	179.774	10783.000	86.673	0.000	96.439	-0.000	86.673	0.000	0.000	96.481	46.983	1.717	MWD+IFR1+MS
21100.000	90.000	179.774	10783.000	87.418	0.000	97.247	-0.000	87.418	0.000	0.000	97.289	47.037	1.699	MWD+IFR1+MS
21200.000	90.000	179.774	10783.000	88.164	0.000	98.055	-0.000	88.164	0.000	0.000	98.097	47.091	1.681	MWD+IFR1+MS
21300.000	90.000	179.774	10783.000	88.910	0.000	98.865	-0.000	88.910	0.000	0.000	98.907	47.145	1.663	MWD+IFR1+MS
21400.000	90.000	179.774	10783.000	89.657	0.000	99.676	-0.000	89.657	0.000	0.000	99.718	47.201	1.646	MWD+IFR1+MS
21500.000	90.000	179.774	10783.000	90.405	0.000	100.489	-0.000	90.405	0.000	0.000	100.530	47.256	1.629	MWD+IFR1+MS
21600.000	90.000	179.774	10783.000	91.153	0.000	101.302	-0.000	91.153	0.000	0.000	101.343	47.312	1.612	MWD+IFR1+MS
21642.597	90.000	179.774	10783.000	91.471	0.000	101.648	-0.000	91.471	0.000	0.000	101.689	47.336	1.605	MWD+IFR1+MS
21692.597	90.000	179.774	10783.000	91.845	0.000	102.054	-0.000	91.845	0.000	0.000	102.094	47.364	1.597	MWD+IFR1+MS

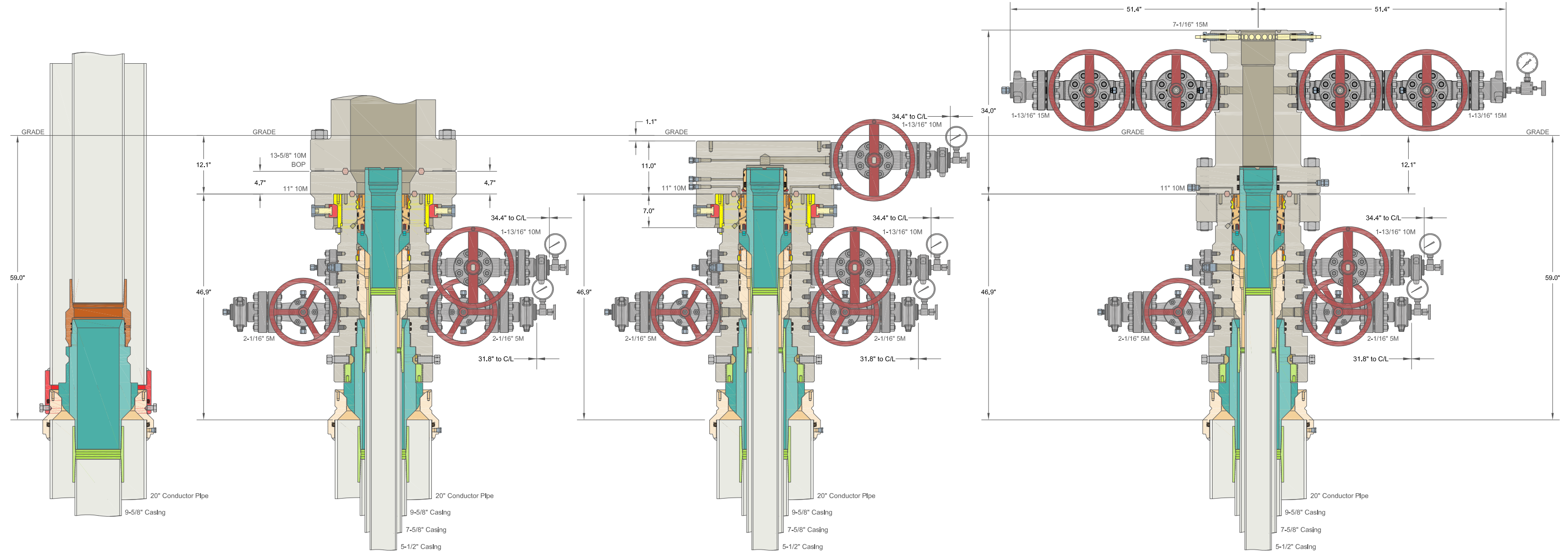
Plan Targets

Poker Lake Unit 18 TWR 116H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 1	11272.90	440369.70	657397.11	7258.00	RECTANGLE

LTP 1	21642.60	430000.12	657437.97	7258.00	RECTANGLE
BHL 1	21692.60	429950.12	657438.17	7258.00	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 31MAR22	
DRAWING NO. HBE0000479		APPRV	

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 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 288432

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 288432
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	11/27/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	11/27/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	11/27/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	11/27/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	11/27/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	11/27/2023