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

Sundry Print Report

12/13/2023

Well Name: POKER LAKE UNIT 17 TWR

Well Location: T24S / R31E / SEC 20 / NWNW /

County or Parish/State:

Well Number: 116H

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 Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2760407

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/08/2023

Time Sundry Submitted: 06:27

Date proposed operation will begin: 11/27/2023

Procedure Description: XTO Permian Operating, LLC. respectfully requests to approval to make changes to the Approved APD (10400090736) as follows: Surface Hole Location Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. SHL: FROM: 253’ FNL & 1003’ FWL TO: 253’ FNL & 968’ FWL of Section 20-T24S-R31E FTP: FROM: 100’ FNL & 440' FWL TO: 100’ FNL & 130’ FWL of Section 20-T24S-R31E LTP: FROM: 100’ FSL & 440’ FWL TO: 100’ FSL & 130’ FWL of Section 29-T24S-R31E BHL: FROM 50’ FSL & 440’FWL TO: 50’FSL & 130’FWL, Section 29-T24S-R31E Casing/Cement design: weight from 23# to 20#. Attachments: C102 Drilling Program Directional Plan MBS

NOI Attachments

Procedure Description

PLU_17_TWR_116H_Sundry_Attachments_20231108062520.pdf

Well Name: POKER LAKE UNIT 17 TWR

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County or Parish/State:

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Unit or CA Name:

Unit or CA Number: 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_2760407_Poker_Lake_Unit_17_TWR_116H_COAs_20231211142657.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: RANELL (RUSTY) KLEIN

Signed on: NOV 08, 2023 06:26 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: RANELL.KLEIN@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CODY LAYTON

BLM POC Title: Assistant Field Manager Lands & Minerals

BLM POC Phone: 5752345959

BLM POC Email Address: clayton@blm.gov

Disposition: Approved

Disposition Date: 12/13/2023

Signature: Cody R. Layton

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC061705B

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No. NMNM71016X

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. POKER LAKE UNIT 17 TWR/116H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No.

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,

3b. Phone No. *(include area code)* (432) 683-2277

10. Field and Pool or Exploratory Area WILDCAT/BONE SPRING

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 20/T24S/R31E/NMP

11. 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			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating, LLC. respectfully requests to approval to make changes to the Approved APD (10400090736) as follows: Surface Hole Location Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change.

SHL: FROM: 253 FNL & 1003 FWL TO: 253 FNL & 968 FWL of Section 20-T24S-R31E
FTP: FROM: 100 FNL & 440' FWL TO: 100 FNL & 130 FWL of Section 20-T24S-R31E
LTP: FROM: 100 FSL & 440 FWL TO: 100 FSL & 130 FWL of Section 29-T24S-R31E
BHL: FROM 50 FSL & 440FWL TO: 50FSL & 130FWL, Section 29-T24S-R31E

Casing/Cement design: weight from 23# to 20#.

Attachments:
Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* RANELL (RUSTY) KLEIN / Ph: (432) 620-6700

Title Regulatory Analyst

Signature (Electronic Submission)

Date 11/08/2023

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by CODY LAYTON / Ph: (575) 234-5959 / Approved

Title Assistant Field Manager Lands &

Date 12/13/2023

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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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

C102

Drilling Program

Directional Plan

MBS

Location of Well

0. SHL: NWNW / 253 FNL / 1003 FWL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209375 / LONG: -103.805151 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 440 FWL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209794 / LONG: -103.806973 (TVD: 10043 feet, MD: 10500 feet)

BHL: SWSW / 50 FSL / 440 FWL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.181169 / LONG: -103.806908 (TVD: 10043 feet, MD: 20839 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Poker Lake Unit 17 TWR 116H
LOCATION:	Sec 20-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Engineering changes addressed through **Sundry 27620407** on 12/11/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	◉ No	○ Yes		
Potash / WIPP	◉ None	○ Secretary	○ R-111-P	☐ WIPP
Cave / Karst	○ Low	◉ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☑ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☑ Break Testing	☐ Water Disposal	☐ COM	☑ Unit
Variance	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☐ **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 672 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 6829'**
   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
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

APD ID
10400090736

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	[3] Pool Name
30-015-	96403	Wildcat; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT 17 TWR	116H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,492'

[10] Surface Location

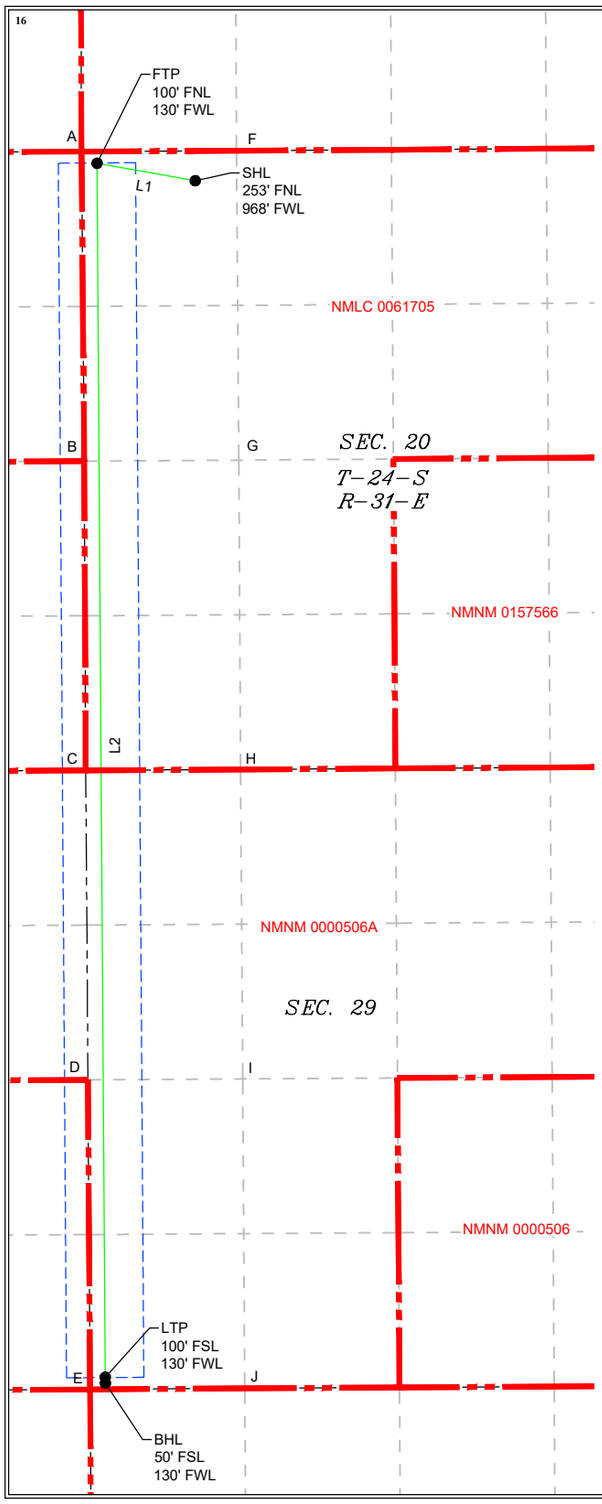
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	20	24S	31E		253	NORTH	968	WEST	EDDY

[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
M	29	24S	31E		50	SOUTH	130	WEST	EDDY

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

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.



LEGEND

- SECTION LINE
- PROPOSED WELL BORE
- NEW MEXICO MINERAL LEASE
- 330' BUFFER
- ALLOCATION AREA

LINE TABLE		
LINE	AZUMITH	LENGTH
L1	280°00'19"	852.08'
L2	179°36'33"	10,413.60'

COORDINATE TABLE

SHL (NAD 83 NME)	SHL (NAD 27 NME)
Y = 440,305.8 N	Y = 440,246.9 N
X = 704,660.4 E	X = 663,476.5 E
LAT. = 32.209375 °N	LAT. = 32.209251 °N
LONG. = 103.805265 °W	LONG. = 103.804780 °W

FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y = 440,453.8 N	Y = 440,394.9 N
X = 703,821.3 E	X = 662,637.3 E
LAT. = 32.209793 °N	LAT. = 32.209669 °N
LONG. = 103.807975 °W	LONG. = 103.807491 °W

LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y = 430,090.5 N	Y = 430,031.8 N
X = 703,891.9 E	X = 662,707.6 E
LAT. = 32.181305 °N	LAT. = 32.181181 °N
LONG. = 103.807911 °W	LONG. = 103.807427 °W

BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y = 430,040.5 N	Y = 429,981.8 N
X = 703,892.3 E	X = 662,708.0 E
LAT. = 32.181168 °N	LAT. = 32.181044 °N
LONG. = 103.807910 °W	LONG. = 103.807427 °W

CORNER COORDINATES (NAD 83 NME)	
A - Y = 440,553.0 N	A - X = 703,690.4 E
B - Y = 437,910.5 N	B - X = 703,713.5 E
C - Y = 435,272.1 N	C - X = 703,726.1 E
D - Y = 432,631.2 N	D - X = 703,744.9 E
E - Y = 429,989.7 N	E - X = 703,762.6 E
F - Y = 440,561.0 N	F - X = 705,012.8 E
G - Y = 437,919.8 N	G - X = 705,032.9 E
H - Y = 435,280.3 N	H - X = 705,047.7 E
I - Y = 432,639.3 N	I - X = 705,065.7 E
J - Y = 429,997.9 N	J - X = 705,083.2 E

CORNER COORDINATES (NAD 27 NME)	
A - Y = 440,494.1 N	A - X = 662,506.5 E
B - Y = 437,851.6 N	B - X = 662,529.5 E
C - Y = 435,213.3 N	C - X = 662,542.0 E
D - Y = 432,572.5 N	D - X = 662,560.7 E
E - Y = 429,931.0 N	E - X = 662,578.3 E
F - Y = 440,502.0 N	F - X = 663,828.9 E
G - Y = 437,860.9 N	G - X = 663,848.9 E
H - Y = 435,221.5 N	H - X = 663,863.6 E
I - Y = 432,580.6 N	I - X = 663,881.5 E
J - Y = 429,939.2 N	J - X = 663,898.9 E

[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 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.

09-26-2023
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number

KC 618.013003.12-09

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\12 - PLU 17 TWR - EDDY\Wells\09 - 116H\DWG\PLU 17 TWR 116H C-102.dwg

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

XTO Energy Inc.
PLU 17 Twin Wells Ranch 116H
Projected TD: 21774.94' MD / 10813' TVD
SHL: 253' FNL & 968' FWL , Section 20, T24S, R31E
BHL: 50' FSL & 130' FWL , 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	572'	Water
Top of Salt	957'	Water
Base of Salt	4086'	Water
Delaware	4314'	Water
Brushy Canyon	6823'	Water/Oil/Gas
Bone Spring	8154'	Water
1st Bone Spring	9129'	Water/Oil/Gas
2nd Bone Spring	9919'	Water/Oil/Gas
Target/Land Curve	10813'	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 @ 672' (285' 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 10036.61' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21774.94 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9736.61 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 672'	9.625	40	J-55	BTC	New	1.27	9.37	23.44
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.03	2.52	1.87
8.75	4000' – 10036.61'	7.625	29.7	HC L-80	Flush Joint	New	1.48	1.83	2.26
6.75	0' – 9936.61'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.72	2.14
6.75	9936.61' - 21774.94'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.58	2.14

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
· 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 +/- 672'

Lead: 120 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 +/- 10036.61'
1st Stage
Optional Lead: 370 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 @ 6823
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: 770 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 (6823') 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 +/- 21774.94'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9736.61 feet
Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10236.61 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 4650 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 9.625, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 672'	12.25	FW/Native	8.4-8.9	35-40	NC
672' - 10036.61'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
10036.61' - 21774.94'	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 7028 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 - 116H

Measured Depth:	21774.94 ft	**Site:**	A
TVD RKB:	10813.00 ft	**Slot:**	116H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	440246.90 ft		
Easting:	663476.50 ft		
RKB:	3551.00 ft		
Ground Level:	3519.00 ft		
North Reference:	Grid		
Convergence Angle:	0.28 Deg		

Plan Sections 116H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
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	
1891.79	13.84	315.67	1885.09	59.46	-58.08	2.00	0.00	2.00	
6248.01	13.84	315.67	6114.91	804.72	-785.98	0.00	0.00	0.00	
6939.80	0.00	0.00	6800.00	864.18	-844.06	-2.00	0.00	2.00	
10236.61	0.00	0.00	10096.80	864.18	-844.06	0.00	0.00	0.00	
11361.61	90.00	179.61	10813.00	148.00	-839.20	8.00	0.00	8.00	FTP 3
21724.94	90.00	179.61	10813.00	-10215.10	-768.90	0.00	0.00	0.00	LTP 3
21774.94	90.00	179.61	10813.00	-10265.10	-768.56	0.00	0.00	0.00	BHL 3

Position Uncertainty 116H

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

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
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	2.446	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	2.488	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	2.585	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	315.675	1299.980	4.722	0.000	5.453	0.000	2.755	0.000	0.000	5.495	4.675	122.093	MWD+IFR1+MS
1400.000	4.000	315.675	1399.838	5.570	0.000	5.784	0.000	2.819	0.000	0.000	5.988	5.358	100.233	MWD+IFR1+MS
1500.000	6.000	315.675	1499.452	6.318	0.000	6.117	0.000	2.887	0.000	0.000	6.619	5.809	82.843	MWD+IFR1+MS
1600.000	8.000	315.675	1598.702	6.997	0.000	6.453	0.000	2.962	0.000	0.000	7.275	6.173	74.947	MWD+IFR1+MS
1700.000	10.000	315.675	1697.465	7.625	0.000	6.793	0.000	3.047	0.000	0.000	7.908	6.514	71.104	MWD+IFR1+MS
1800.000	12.000	315.675	1795.623	8.211	0.000	7.135	0.000	3.143	0.000	0.000	8.513	6.849	68.948	MWD+IFR1+MS
1891.790	13.836	315.675	1885.086	8.674	0.000	7.448	0.000	3.236	0.000	0.000	9.001	7.156	67.890	MWD+IFR1+MS
1900.000	13.836	315.675	1893.058	8.697	0.000	7.475	0.000	3.237	0.000	0.000	9.026	7.184	67.881	MWD+IFR1+MS
2000.000	13.836	315.675	1990.157	8.982	0.000	7.808	0.000	3.320	0.000	0.000	9.306	7.518	68.262	MWD+IFR1+MS
2100.000	13.836	315.675	2087.255	9.289	0.000	8.162	0.000	3.409	0.000	0.000	9.616	7.863	68.979	MWD+IFR1+MS
2200.000	13.836	315.675	2184.354	9.603	0.000	8.519	0.000	3.501	0.000	0.000	9.933	8.210	69.678	MWD+IFR1+MS
2300.000	13.836	315.675	2281.452	9.922	0.000	8.879	0.000	3.597	0.000	0.000	10.254	8.560	70.359	MWD+IFR1+MS
2400.000	13.836	315.675	2378.551	10.247	0.000	9.241	0.000	3.695	0.000	0.000	10.581	8.912	71.022	MWD+IFR1+MS
2500.000	13.836	315.675	2475.649	10.577	0.000	9.605	0.000	3.795	0.000	0.000	10.912	9.267	71.666	MWD+IFR1+MS
2600.000	13.836	315.675	2572.748	10.911	0.000	9.971	0.000	3.899	0.000	0.000	11.247	9.624	72.293	MWD+IFR1+MS
2700.000	13.836	315.675	2669.846	11.250	0.000	10.338	0.000	4.005	0.000	0.000	11.586	9.982	72.902	MWD+IFR1+MS
2800.000	13.836	315.675	2766.945	11.592	0.000	10.708	0.000	4.113	0.000	0.000	11.928	10.342	73.493	MWD+IFR1+MS
2900.000	13.836	315.675	2864.043	11.937	0.000	11.078	0.000	4.223	0.000	0.000	12.273	10.704	74.068	MWD+IFR1+MS

3000.000	13.836	315.675	2961.142	12.285	0.000	11.450	0.000	4.335	0.000	0.000	12.621	11.067	74.625	MWD+IFR1+MS
3100.000	13.836	315.675	3058.240	12.637	0.000	11.823	0.000	4.449	0.000	0.000	12.972	11.431	75.166	MWD+IFR1+MS
3200.000	13.836	315.675	3155.339	12.991	0.000	12.197	0.000	4.565	0.000	0.000	13.325	11.796	75.691	MWD+IFR1+MS
3300.000	13.836	315.675	3252.437	13.347	0.000	12.571	0.000	4.683	0.000	0.000	13.681	12.162	76.200	MWD+IFR1+MS
3400.000	13.836	315.675	3349.536	13.706	0.000	12.947	0.000	4.802	0.000	0.000	14.038	12.529	76.693	MWD+IFR1+MS
3500.000	13.836	315.675	3446.634	14.066	0.000	13.323	0.000	4.923	0.000	0.000	14.397	12.897	77.172	MWD+IFR1+MS
3600.000	13.836	315.675	3543.733	14.429	0.000	13.701	0.000	5.046	0.000	0.000	14.758	13.266	77.637	MWD+IFR1+MS
3700.000	13.836	315.675	3640.831	14.793	0.000	14.078	0.000	5.171	0.000	0.000	15.121	13.635	78.087	MWD+IFR1+MS
3800.000	13.836	315.675	3737.930	15.159	0.000	14.457	0.000	5.297	0.000	0.000	15.485	14.006	78.523	MWD+IFR1+MS
3900.000	13.836	315.675	3835.028	15.526	0.000	14.835	0.000	5.424	0.000	0.000	15.850	14.376	78.947	MWD+IFR1+MS
4000.000	13.836	315.675	3932.127	15.895	0.000	15.215	0.000	5.554	0.000	0.000	16.217	14.748	79.357	MWD+IFR1+MS
4100.000	13.836	315.675	4029.225	16.265	0.000	15.595	0.000	5.684	0.000	0.000	16.585	15.120	79.755	MWD+IFR1+MS
4200.000	13.836	315.675	4126.324	16.636	0.000	15.975	0.000	5.817	0.000	0.000	16.954	15.492	80.141	MWD+IFR1+MS
4300.000	13.836	315.675	4223.422	17.009	0.000	16.356	0.000	5.950	0.000	0.000	17.324	15.865	80.515	MWD+IFR1+MS
4400.000	13.836	315.675	4320.521	17.382	0.000	16.737	0.000	6.086	0.000	0.000	17.695	16.239	80.877	MWD+IFR1+MS
4500.000	13.836	315.675	4417.619	17.757	0.000	17.118	0.000	6.222	0.000	0.000	18.067	16.612	81.229	MWD+IFR1+MS
4600.000	13.836	315.675	4514.718	18.132	0.000	17.500	0.000	6.361	0.000	0.000	18.440	16.987	81.570	MWD+IFR1+MS
4700.000	13.836	315.675	4611.816	18.509	0.000	17.882	0.000	6.501	0.000	0.000	18.814	17.361	81.901	MWD+IFR1+MS
4800.000	13.836	315.675	4708.915	18.886	0.000	18.264	0.000	6.642	0.000	0.000	19.188	17.736	82.222	MWD+IFR1+MS
4900.000	13.836	315.675	4806.013	19.264	0.000	18.647	0.000	6.785	0.000	0.000	19.564	18.112	82.533	MWD+IFR1+MS
5000.000	13.836	315.675	4903.112	19.642	0.000	19.030	0.000	6.929	0.000	0.000	19.939	18.487	82.835	MWD+IFR1+MS
5100.000	13.836	315.675	5000.210	20.022	0.000	19.413	0.000	7.076	0.000	0.000	20.316	18.863	83.128	MWD+IFR1+MS
5200.000	13.836	315.675	5097.309	20.402	0.000	19.796	0.000	7.223	0.000	0.000	20.693	19.239	83.413	MWD+IFR1+MS
5300.000	13.836	315.675	5194.407	20.782	0.000	20.180	0.000	7.373	0.000	0.000	21.070	19.616	83.688	MWD+IFR1+MS
5400.000	13.836	315.675	5291.506	21.164	0.000	20.564	0.000	7.524	0.000	0.000	21.449	19.993	83.956	MWD+IFR1+MS
5500.000	13.836	315.675	5388.604	21.546	0.000	20.948	0.000	7.676	0.000	0.000	21.827	20.370	84.216	MWD+IFR1+MS
5600.000	13.836	315.675	5485.703	21.928	0.000	21.332	0.000	7.831	0.000	0.000	22.206	20.747	84.467	MWD+IFR1+MS
5700.000	13.836	315.675	5582.801	22.311	0.000	21.716	0.000	7.987	0.000	0.000	22.586	21.125	84.712	MWD+IFR1+MS
5800.000	13.836	315.675	5679.900	22.694	0.000	22.101	0.000	8.144	0.000	0.000	22.966	21.503	84.949	MWD+IFR1+MS
5900.000	13.836	315.675	5776.998	23.078	0.000	22.485	0.000	8.304	0.000	0.000	23.346	21.881	85.180	MWD+IFR1+MS
6000.000	13.836	315.675	5874.097	23.462	0.000	22.870	0.000	8.465	0.000	0.000	23.727	22.259	85.403	MWD+IFR1+MS
6100.000	13.836	315.675	5971.195	23.847	0.000	23.255	0.000	8.628	0.000	0.000	24.108	22.637	85.620	MWD+IFR1+MS
6200.000	13.836	315.675	6068.294	24.231	0.000	23.640	0.000	8.793	0.000	0.000	24.490	23.016	85.830	MWD+IFR1+MS

6248.013	13.836	315.675	6114.914	24.414	0.000	23.822	0.000	8.872	0.000	0.000	24.668	23.198	85.908	MWD+IFR1+MS
6300.000	12.796	315.675	6165.502	24.631	0.000	24.018	0.000	8.959	0.000	0.000	24.862	23.394	85.946	MWD+IFR1+MS
6400.000	10.796	315.675	6263.385	25.079	0.000	24.393	0.000	9.129	0.000	0.000	25.276	23.779	85.089	MWD+IFR1+MS
6500.000	8.796	315.675	6361.922	25.534	0.000	24.764	0.000	9.297	0.000	0.000	25.722	24.164	83.599	MWD+IFR1+MS
6600.000	6.796	315.675	6460.993	25.951	0.000	25.128	0.000	9.457	0.000	0.000	26.162	24.541	82.227	MWD+IFR1+MS
6700.000	4.796	315.675	6560.477	26.328	0.000	25.484	0.000	9.609	0.000	0.000	26.595	24.908	80.974	MWD+IFR1+MS
6800.000	2.796	315.675	6660.252	26.665	0.000	25.832	0.000	9.755	0.000	0.000	27.019	25.267	79.838	MWD+IFR1+MS
6900.000	0.796	315.675	6760.198	26.962	0.000	26.173	0.000	9.897	0.000	0.000	27.434	25.616	78.817	MWD+IFR1+MS
6939.803	0.000	0.000	6800.000	27.500	0.000	25.818	0.000	9.952	0.000	0.000	27.566	25.748	78.835	MWD+IFR1+MS
7000.000	0.000	0.000	6860.197	27.692	0.000	26.015	0.000	10.036	0.000	0.000	27.756	25.947	78.973	MWD+IFR1+MS
7100.000	0.000	0.000	6960.197	28.010	0.000	26.347	0.000	10.177	0.000	0.000	28.071	26.283	79.242	MWD+IFR1+MS
7200.000	0.000	0.000	7060.197	28.332	0.000	26.682	0.000	10.320	0.000	0.000	28.388	26.622	79.583	MWD+IFR1+MS
7300.000	0.000	0.000	7160.197	28.655	0.000	27.017	0.000	10.467	0.000	0.000	28.706	26.962	79.924	MWD+IFR1+MS
7400.000	0.000	0.000	7260.197	28.978	0.000	27.353	0.000	10.617	0.000	0.000	29.026	27.302	80.265	MWD+IFR1+MS
7500.000	0.000	0.000	7360.197	29.302	0.000	27.690	0.000	10.769	0.000	0.000	29.347	27.643	80.606	MWD+IFR1+MS
7600.000	0.000	0.000	7460.197	29.628	0.000	28.027	0.000	10.924	0.000	0.000	29.668	27.984	80.947	MWD+IFR1+MS
7700.000	0.000	0.000	7560.197	29.953	0.000	28.364	0.000	11.083	0.000	0.000	29.991	28.325	81.288	MWD+IFR1+MS
7800.000	0.000	0.000	7660.197	30.280	0.000	28.702	0.000	11.244	0.000	0.000	30.314	28.666	81.628	MWD+IFR1+MS
7900.000	0.000	0.000	7760.197	30.607	0.000	29.041	0.000	11.408	0.000	0.000	30.638	29.008	81.968	MWD+IFR1+MS
8000.000	0.000	0.000	7860.197	30.935	0.000	29.380	0.000	11.576	0.000	0.000	30.963	29.350	82.308	MWD+IFR1+MS
8100.000	0.000	0.000	7960.197	31.264	0.000	29.719	0.000	11.746	0.000	0.000	31.289	29.693	82.648	MWD+IFR1+MS
8200.000	0.000	0.000	8060.197	31.593	0.000	30.059	0.000	11.919	0.000	0.000	31.616	30.035	82.986	MWD+IFR1+MS
8300.000	0.000	0.000	8160.197	31.923	0.000	30.400	0.000	12.096	0.000	0.000	31.944	30.378	83.324	MWD+IFR1+MS
8400.000	0.000	0.000	8260.197	32.254	0.000	30.741	0.000	12.275	0.000	0.000	32.272	30.721	83.661	MWD+IFR1+MS
8500.000	0.000	0.000	8360.197	32.585	0.000	31.082	0.000	12.458	0.000	0.000	32.601	31.065	83.998	MWD+IFR1+MS
8600.000	0.000	0.000	8460.197	32.917	0.000	31.423	0.000	12.643	0.000	0.000	32.931	31.408	84.333	MWD+IFR1+MS
8700.000	0.000	0.000	8560.197	33.249	0.000	31.765	0.000	12.832	0.000	0.000	33.262	31.752	84.667	MWD+IFR1+MS
8800.000	0.000	0.000	8660.197	33.582	0.000	32.108	0.000	13.024	0.000	0.000	33.593	32.096	85.000	MWD+IFR1+MS
8900.000	0.000	0.000	8760.197	33.915	0.000	32.450	0.000	13.219	0.000	0.000	33.925	32.440	85.332	MWD+IFR1+MS
9000.000	0.000	0.000	8860.197	34.249	0.000	32.793	0.000	13.417	0.000	0.000	34.257	32.785	85.663	MWD+IFR1+MS
9100.000	0.000	0.000	8960.197	34.583	0.000	33.137	0.000	13.618	0.000	0.000	34.590	33.129	85.992	MWD+IFR1+MS
9200.000	0.000	0.000	9060.197	34.918	0.000	33.480	0.000	13.823	0.000	0.000	34.924	33.474	86.319	MWD+IFR1+MS
9300.000	0.000	0.000	9160.197	35.253	0.000	33.824	0.000	14.030	0.000	0.000	35.258	33.819	86.646	MWD+IFR1+MS

9400.000	0.000	0.000	9260.197	35.589	0.000	34.168	0.000	14.241	0.000	0.000	35.593	34.164	86.970	MWD+IFR1+MS
9500.000	0.000	0.000	9360.197	35.925	0.000	34.513	0.000	14.455	0.000	0.000	35.928	34.510	87.293	MWD+IFR1+MS
9600.000	0.000	0.000	9460.197	36.262	0.000	34.858	0.000	14.672	0.000	0.000	36.264	34.855	87.614	MWD+IFR1+MS
9700.000	0.000	0.000	9560.197	36.599	0.000	35.203	0.000	14.892	0.000	0.000	36.601	35.201	87.933	MWD+IFR1+MS
9800.000	0.000	0.000	9660.197	36.936	0.000	35.548	0.000	15.115	0.000	0.000	36.938	35.547	88.250	MWD+IFR1+MS
9900.000	0.000	0.000	9760.197	37.274	0.000	35.894	0.000	15.342	0.000	0.000	37.275	35.893	88.566	MWD+IFR1+MS
10000.000	0.000	0.000	9860.197	37.612	0.000	36.240	0.000	15.572	0.000	0.000	37.613	36.239	88.879	MWD+IFR1+MS
10100.000	0.000	0.000	9960.197	37.951	0.000	36.586	0.000	15.805	0.000	0.000	37.951	36.585	89.190	MWD+IFR1+MS
10200.000	0.000	0.000	10060.197	38.290	0.000	36.932	0.000	16.041	0.000	0.000	38.290	36.932	89.500	MWD+IFR1+MS
10236.606	0.000	0.000	10096.803	38.413	0.000	37.057	0.000	16.128	0.000	0.000	38.413	37.057	89.551	MWD+IFR1+MS
10300.000	5.072	179.611	10160.114	38.251	0.000	37.262	-0.000	16.279	0.000	0.000	38.652	37.262	89.689	MWD+IFR1+MS
10400.000	13.072	179.611	10258.783	38.160	0.000	37.559	-0.000	16.559	0.000	0.000	39.640	37.557	91.128	MWD+IFR1+MS
10500.000	21.072	179.611	10354.299	37.863	0.000	37.835	-0.000	16.995	0.000	0.000	40.862	37.829	92.071	MWD+IFR1+MS
10600.000	29.072	179.611	10444.804	37.046	0.000	38.085	-0.000	17.640	0.000	0.000	41.920	38.074	92.603	MWD+IFR1+MS
10700.000	37.072	179.611	10528.535	35.800	0.000	38.309	-0.000	18.534	0.000	0.000	42.797	38.292	92.979	MWD+IFR1+MS
10800.000	45.072	179.611	10603.862	34.246	0.000	38.503	-0.000	19.681	0.000	0.000	43.489	38.481	93.272	MWD+IFR1+MS
10900.000	53.072	179.611	10669.321	32.543	0.000	38.668	-0.000	21.054	0.000	0.000	44.000	38.642	93.503	MWD+IFR1+MS
11000.000	61.072	179.611	10723.636	30.888	0.000	38.804	-0.000	22.609	0.000	0.000	44.344	38.774	93.670	MWD+IFR1+MS
11100.000	69.072	179.611	10765.750	29.511	0.000	38.909	-0.000	24.287	0.000	0.000	44.546	38.877	93.755	MWD+IFR1+MS
11200.000	77.072	179.611	10794.844	28.649	0.000	38.985	-0.000	26.028	0.000	0.000	44.639	38.953	93.728	MWD+IFR1+MS
11300.000	85.072	179.611	10810.352	28.504	0.000	39.030	-0.000	27.770	0.000	0.000	44.662	39.002	93.551	MWD+IFR1+MS
11361.606	90.000	179.611	10813.000	28.264	0.000	39.041	-0.000	28.264	0.000	0.000	44.661	39.015	93.339	MWD+IFR1+MS
11400.000	90.000	179.611	10813.000	28.359	0.000	39.044	-0.000	28.359	0.000	0.000	44.660	39.020	93.188	MWD+IFR1+MS
11500.000	90.000	179.611	10813.000	28.562	0.000	39.067	-0.000	28.562	0.000	0.000	44.658	39.048	92.802	MWD+IFR1+MS
11600.000	90.000	179.611	10813.000	28.789	0.000	39.107	-0.000	28.789	0.000	0.000	44.656	39.093	92.421	MWD+IFR1+MS
11700.000	90.000	179.611	10813.000	29.035	0.000	39.162	-0.000	29.035	0.000	0.000	44.656	39.152	92.039	MWD+IFR1+MS
11800.000	90.000	179.611	10813.000	29.301	0.000	39.232	-0.000	29.301	0.000	0.000	44.657	39.225	91.655	MWD+IFR1+MS
11900.000	90.000	179.611	10813.000	29.584	0.000	39.317	-0.000	29.584	0.000	0.000	44.659	39.312	91.265	MWD+IFR1+MS
12000.000	90.000	179.611	10813.000	29.886	0.000	39.417	-0.000	29.886	0.000	0.000	44.662	39.414	90.867	MWD+IFR1+MS
12100.000	90.000	179.611	10813.000	30.205	0.000	39.531	-0.000	30.205	0.000	0.000	44.666	39.529	90.456	MWD+IFR1+MS
12200.000	90.000	179.611	10813.000	30.541	0.000	39.659	-0.000	30.541	0.000	0.000	44.671	39.659	90.030	MWD+IFR1+MS
12300.000	90.000	179.611	10813.000	30.893	0.000	39.802	-0.000	30.893	0.000	0.000	44.677	39.802	89.584	MWD+IFR1+MS
12400.000	90.000	179.611	10813.000	31.261	0.000	39.959	-0.000	31.261	0.000	0.000	44.685	39.959	89.113	MWD+IFR1+MS

12500.000	90.000	179.611	10813.000	31.644	0.000	40.130	-0.000	31.644	0.000	0.000	44.693	40.129	88.610	MWD+IFR1+MS
12600.000	90.000	179.611	10813.000	32.042	0.000	40.315	-0.000	32.042	0.000	0.000	44.703	40.312	88.067	MWD+IFR1+MS
12700.000	90.000	179.611	10813.000	32.453	0.000	40.513	-0.000	32.453	0.000	0.000	44.714	40.507	87.477	MWD+IFR1+MS
12800.000	90.000	179.611	10813.000	32.879	0.000	40.725	-0.000	32.879	0.000	0.000	44.727	40.715	86.827	MWD+IFR1+MS
12900.000	90.000	179.611	10813.000	33.317	0.000	40.950	-0.000	33.317	0.000	0.000	44.741	40.935	86.103	MWD+IFR1+MS
13000.000	90.000	179.611	10813.000	33.768	0.000	41.188	-0.000	33.768	0.000	0.000	44.757	41.167	85.286	MWD+IFR1+MS
13100.000	90.000	179.611	10813.000	34.231	0.000	41.439	-0.000	34.231	0.000	0.000	44.776	41.410	84.350	MWD+IFR1+MS
13200.000	90.000	179.611	10813.000	34.706	0.000	41.703	-0.000	34.706	0.000	0.000	44.797	41.663	83.264	MWD+IFR1+MS
13300.000	90.000	179.611	10813.000	35.192	0.000	41.979	-0.000	35.192	0.000	0.000	44.821	41.926	81.980	MWD+IFR1+MS
13400.000	90.000	179.611	10813.000	35.688	0.000	42.266	-0.000	35.688	0.000	0.000	44.850	42.197	80.438	MWD+IFR1+MS
13500.000	90.000	179.611	10813.000	36.194	0.000	42.566	-0.000	36.194	0.000	0.000	44.884	42.475	78.548	MWD+IFR1+MS
13600.000	90.000	179.611	10813.000	36.711	0.000	42.877	-0.000	36.711	0.000	0.000	44.925	42.758	76.187	MWD+IFR1+MS
13700.000	90.000	179.611	10813.000	37.237	0.000	43.200	-0.000	37.237	0.000	0.000	44.977	43.042	73.182	MWD+IFR1+MS
13800.000	90.000	179.611	10813.000	37.771	0.000	43.533	-0.000	37.771	0.000	0.000	45.044	43.323	69.308	MWD+IFR1+MS
13900.000	90.000	179.611	10813.000	38.315	0.000	43.878	-0.000	38.315	0.000	0.000	45.132	43.593	64.313	MWD+IFR1+MS
14000.000	90.000	179.611	10813.000	38.866	0.000	44.233	-0.000	38.866	0.000	0.000	45.253	43.842	58.054	MWD+IFR1+MS
14100.000	90.000	179.611	10813.000	39.426	0.000	44.598	-0.000	39.426	0.000	0.000	45.417	44.059	50.758	MWD+IFR1+MS
14200.000	90.000	179.611	10813.000	39.993	0.000	44.974	-0.000	39.993	0.000	0.000	45.631	44.236	43.185	MWD+IFR1+MS
14300.000	90.000	179.611	10813.000	40.567	0.000	45.359	-0.000	40.567	0.000	0.000	45.897	44.372	36.278	MWD+IFR1+MS
14400.000	90.000	179.611	10813.000	41.148	0.000	45.754	-0.000	41.148	0.000	0.000	46.205	44.475	30.574	MWD+IFR1+MS
14500.000	90.000	179.611	10813.000	41.736	0.000	46.158	-0.000	41.736	0.000	0.000	46.548	44.554	26.106	MWD+IFR1+MS
14600.000	90.000	179.611	10813.000	42.331	0.000	46.571	-0.000	42.331	0.000	0.000	46.916	44.617	22.657	MWD+IFR1+MS
14700.000	90.000	179.611	10813.000	42.931	0.000	46.993	-0.000	42.931	0.000	0.000	47.304	44.669	19.979	MWD+IFR1+MS
14800.000	90.000	179.611	10813.000	43.537	0.000	47.424	-0.000	43.537	0.000	0.000	47.709	44.714	17.869	MWD+IFR1+MS
14900.000	90.000	179.611	10813.000	44.149	0.000	47.863	-0.000	44.149	0.000	0.000	48.128	44.754	16.177	MWD+IFR1+MS
15000.000	90.000	179.611	10813.000	44.767	0.000	48.310	-0.000	44.767	0.000	0.000	48.559	44.790	14.796	MWD+IFR1+MS
15100.000	90.000	179.611	10813.000	45.389	0.000	48.765	-0.000	45.389	0.000	0.000	49.001	44.824	13.650	MWD+IFR1+MS
15200.000	90.000	179.611	10813.000	46.017	0.000	49.228	-0.000	46.017	0.000	0.000	49.453	44.856	12.685	MWD+IFR1+MS
15300.000	90.000	179.611	10813.000	46.649	0.000	49.698	-0.000	46.649	0.000	0.000	49.913	44.888	11.861	MWD+IFR1+MS
15400.000	90.000	179.611	10813.000	47.286	0.000	50.176	-0.000	47.286	0.000	0.000	50.383	44.918	11.151	MWD+IFR1+MS
15500.000	90.000	179.611	10813.000	47.927	0.000	50.660	-0.000	47.927	0.000	0.000	50.860	44.948	10.531	MWD+IFR1+MS
15600.000	90.000	179.611	10813.000	48.572	0.000	51.152	-0.000	48.572	0.000	0.000	51.346	44.977	9.985	MWD+IFR1+MS
15700.000	90.000	179.611	10813.000	49.222	0.000	51.650	-0.000	49.222	0.000	0.000	51.838	45.006	9.500	MWD+IFR1+MS

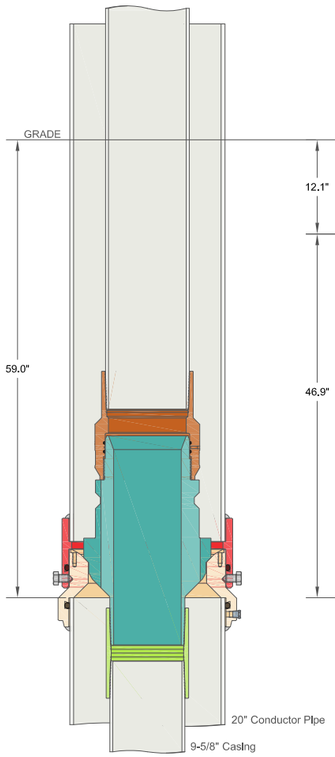
15800.000	90.000	179.611	10813.000	49.875	0.000	52.155	-0.000	49.875	0.000	0.000	52.338	45.036	9.066	MWD+IFR1+MS
15900.000	90.000	179.611	10813.000	50.532	0.000	52.665	-0.000	50.532	0.000	0.000	52.845	45.065	8.676	MWD+IFR1+MS
16000.000	90.000	179.611	10813.000	51.193	0.000	53.183	-0.000	51.193	0.000	0.000	53.358	45.094	8.323	MWD+IFR1+MS
16100.000	90.000	179.611	10813.000	51.857	0.000	53.705	-0.000	51.857	0.000	0.000	53.877	45.124	8.001	MWD+IFR1+MS
16200.000	90.000	179.611	10813.000	52.525	0.000	54.234	-0.000	52.525	0.000	0.000	54.402	45.154	7.707	MWD+IFR1+MS
16300.000	90.000	179.611	10813.000	53.195	0.000	54.769	-0.000	53.195	0.000	0.000	54.934	45.184	7.436	MWD+IFR1+MS
16400.000	90.000	179.611	10813.000	53.869	0.000	55.308	-0.000	53.869	0.000	0.000	55.470	45.214	7.187	MWD+IFR1+MS
16500.000	90.000	179.611	10813.000	54.546	0.000	55.853	-0.000	54.546	0.000	0.000	56.013	45.245	6.956	MWD+IFR1+MS
16600.000	90.000	179.611	10813.000	55.225	0.000	56.404	-0.000	55.225	0.000	0.000	56.560	45.276	6.741	MWD+IFR1+MS
16700.000	90.000	179.611	10813.000	55.908	0.000	56.959	-0.000	55.908	0.000	0.000	57.113	45.308	6.541	MWD+IFR1+MS
16800.000	90.000	179.611	10813.000	56.593	0.000	57.519	-0.000	56.593	0.000	0.000	57.671	45.340	6.353	MWD+IFR1+MS
16900.000	90.000	179.611	10813.000	57.280	0.000	58.083	-0.000	57.280	0.000	0.000	58.233	45.372	6.178	MWD+IFR1+MS
17000.000	90.000	179.611	10813.000	57.970	0.000	58.653	-0.000	57.970	0.000	0.000	58.800	45.405	6.013	MWD+IFR1+MS
17100.000	90.000	179.611	10813.000	58.663	0.000	59.226	-0.000	58.663	0.000	0.000	59.372	45.438	5.858	MWD+IFR1+MS
17200.000	90.000	179.611	10813.000	59.357	0.000	59.804	-0.000	59.357	0.000	0.000	59.948	45.472	5.711	MWD+IFR1+MS
17300.000	90.000	179.611	10813.000	60.054	0.000	60.387	-0.000	60.054	0.000	0.000	60.529	45.506	5.572	MWD+IFR1+MS
17400.000	90.000	179.611	10813.000	60.753	0.000	60.973	-0.000	60.753	0.000	0.000	61.113	45.541	5.441	MWD+IFR1+MS
17500.000	90.000	179.611	10813.000	61.454	0.000	61.563	-0.000	61.454	0.000	0.000	61.702	45.576	5.316	MWD+IFR1+MS
17600.000	90.000	179.611	10813.000	62.158	0.000	62.157	-0.000	62.158	0.000	0.000	62.294	45.611	5.197	MWD+IFR1+MS
17700.000	90.000	179.611	10813.000	62.863	0.000	62.755	-0.000	62.863	0.000	0.000	62.890	45.647	5.084	MWD+IFR1+MS
17800.000	90.000	179.611	10813.000	63.570	0.000	63.356	-0.000	63.570	0.000	0.000	63.490	45.684	4.976	MWD+IFR1+MS
17900.000	90.000	179.611	10813.000	64.278	0.000	63.961	-0.000	64.278	0.000	0.000	64.093	45.721	4.873	MWD+IFR1+MS
18000.000	90.000	179.611	10813.000	64.989	0.000	64.569	-0.000	64.989	0.000	0.000	64.700	45.758	4.775	MWD+IFR1+MS
18100.000	90.000	179.611	10813.000	65.701	0.000	65.180	-0.000	65.701	0.000	0.000	65.310	45.796	4.680	MWD+IFR1+MS
18200.000	90.000	179.611	10813.000	66.415	0.000	65.795	-0.000	66.415	0.000	0.000	65.924	45.834	4.590	MWD+IFR1+MS
18300.000	90.000	179.611	10813.000	67.130	0.000	66.413	-0.000	67.130	0.000	0.000	66.540	45.873	4.503	MWD+IFR1+MS
18400.000	90.000	179.611	10813.000	67.847	0.000	67.034	-0.000	67.847	0.000	0.000	67.160	45.913	4.420	MWD+IFR1+MS
18500.000	90.000	179.611	10813.000	68.566	0.000	67.658	-0.000	68.566	0.000	0.000	67.783	45.952	4.340	MWD+IFR1+MS
18600.000	90.000	179.611	10813.000	69.286	0.000	68.285	-0.000	69.286	0.000	0.000	68.408	45.993	4.262	MWD+IFR1+MS
18700.000	90.000	179.611	10813.000	70.007	0.000	68.914	-0.000	70.007	0.000	0.000	69.037	46.034	4.188	MWD+IFR1+MS
18800.000	90.000	179.611	10813.000	70.729	0.000	69.547	-0.000	70.729	0.000	0.000	69.668	46.075	4.116	MWD+IFR1+MS
18900.000	90.000	179.611	10813.000	71.453	0.000	70.182	-0.000	71.453	0.000	0.000	70.302	46.117	4.047	MWD+IFR1+MS
19000.000	90.000	179.611	10813.000	72.179	0.000	70.819	-0.000	72.179	0.000	0.000	70.938	46.159	3.980	MWD+IFR1+MS

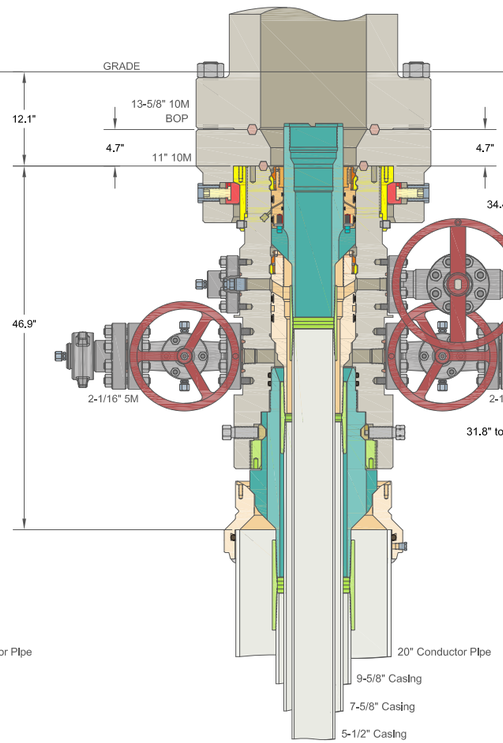
19100.000	90.000	179.611	10813.000	72.905	0.000	71.459	-0.000	72.905	0.000	0.000	71.577	46.202	3.916	MWD+IFR1+MS
19200.000	90.000	179.611	10813.000	73.633	0.000	72.102	-0.000	73.633	0.000	0.000	72.219	46.245	3.853	MWD+IFR1+MS
19300.000	90.000	179.611	10813.000	74.361	0.000	72.747	-0.000	74.361	0.000	0.000	72.862	46.289	3.793	MWD+IFR1+MS
19400.000	90.000	179.611	10813.000	75.091	0.000	73.394	-0.000	75.091	0.000	0.000	73.509	46.333	3.734	MWD+IFR1+MS
19500.000	90.000	179.611	10813.000	75.822	0.000	74.044	-0.000	75.822	0.000	0.000	74.157	46.378	3.677	MWD+IFR1+MS
19600.000	90.000	179.611	10813.000	76.554	0.000	74.695	-0.000	76.554	0.000	0.000	74.808	46.423	3.622	MWD+IFR1+MS
19700.000	90.000	179.611	10813.000	77.288	0.000	75.349	-0.000	77.288	0.000	0.000	75.461	46.468	3.569	MWD+IFR1+MS
19800.000	90.000	179.611	10813.000	78.022	0.000	76.005	-0.000	78.022	0.000	0.000	76.116	46.514	3.517	MWD+IFR1+MS
19900.000	90.000	179.611	10813.000	78.757	0.000	76.663	-0.000	78.757	0.000	0.000	76.773	46.561	3.467	MWD+IFR1+MS
20000.000	90.000	179.611	10813.000	79.493	0.000	77.323	-0.000	79.493	0.000	0.000	77.432	46.608	3.418	MWD+IFR1+MS
20100.000	90.000	179.611	10813.000	80.230	0.000	77.985	-0.000	80.230	0.000	0.000	78.093	46.656	3.370	MWD+IFR1+MS
20200.000	90.000	179.611	10813.000	80.968	0.000	78.649	-0.000	80.968	0.000	0.000	78.756	46.704	3.324	MWD+IFR1+MS
20300.000	90.000	179.611	10813.000	81.706	0.000	79.314	-0.000	81.706	0.000	0.000	79.420	46.752	3.279	MWD+IFR1+MS
20400.000	90.000	179.611	10813.000	82.446	0.000	79.982	-0.000	82.446	0.000	0.000	80.087	46.801	3.235	MWD+IFR1+MS
20500.000	90.000	179.611	10813.000	83.186	0.000	80.651	-0.000	83.186	0.000	0.000	80.755	46.851	3.192	MWD+IFR1+MS
20600.000	90.000	179.611	10813.000	83.928	0.000	81.321	-0.000	83.928	0.000	0.000	81.425	46.901	3.151	MWD+IFR1+MS
20700.000	90.000	179.611	10813.000	84.670	0.000	81.994	-0.000	84.670	0.000	0.000	82.097	46.951	3.110	MWD+IFR1+MS
20800.000	90.000	179.611	10813.000	85.412	0.000	82.668	-0.000	85.412	0.000	0.000	82.770	47.002	3.070	MWD+IFR1+MS
20900.000	90.000	179.611	10813.000	86.156	0.000	83.344	-0.000	86.156	0.000	0.000	83.445	47.054	3.032	MWD+IFR1+MS
21000.000	90.000	179.611	10813.000	86.900	0.000	84.021	-0.000	86.900	0.000	0.000	84.122	47.105	2.994	MWD+IFR1+MS
21100.000	90.000	179.611	10813.000	87.645	0.000	84.700	-0.000	87.645	0.000	0.000	84.800	47.158	2.957	MWD+IFR1+MS
21200.000	90.000	179.611	10813.000	88.391	0.000	85.380	-0.000	88.391	0.000	0.000	85.479	47.210	2.921	MWD+IFR1+MS
21300.000	90.000	179.611	10813.000	89.137	0.000	86.062	-0.000	89.137	0.000	0.000	86.160	47.264	2.886	MWD+IFR1+MS
21400.000	90.000	179.611	10813.000	89.884	0.000	86.745	-0.000	89.884	0.000	0.000	86.842	47.317	2.852	MWD+IFR1+MS
21500.000	90.000	179.611	10813.000	90.632	0.000	87.429	-0.000	90.632	0.000	0.000	87.526	47.371	2.818	MWD+IFR1+MS
21600.000	90.000	179.611	10813.000	91.380	0.000	88.115	-0.000	91.380	0.000	0.000	88.211	47.426	2.786	MWD+IFR1+MS
21700.000	90.000	179.611	10813.000	92.129	0.000	88.802	-0.000	92.129	0.000	0.000	88.897	47.481	2.753	MWD+IFR1+MS
21724.944	90.000	179.611	10813.000	92.315	0.000	88.973	-0.000	92.315	0.000	0.000	89.068	47.495	2.746	MWD+IFR1+MS
21774.941	90.000	179.611	10813.000	92.689	0.000	89.315	-0.000	92.689	0.000	0.000	89.410	47.523	2.730	MWD+IFR1+MS

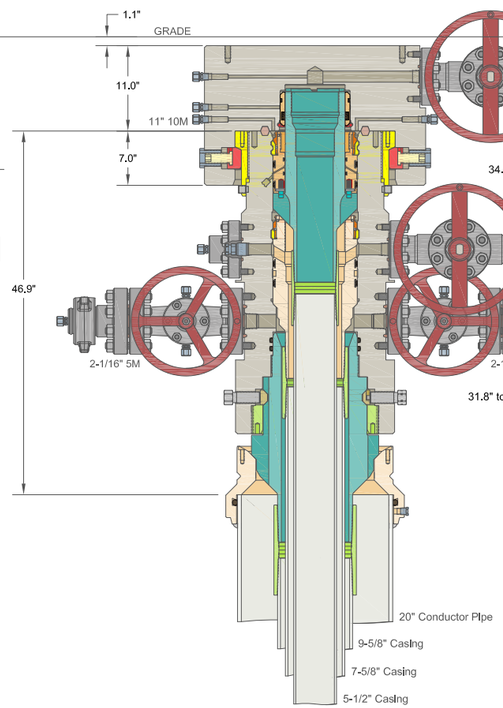
Plan Targets 116H

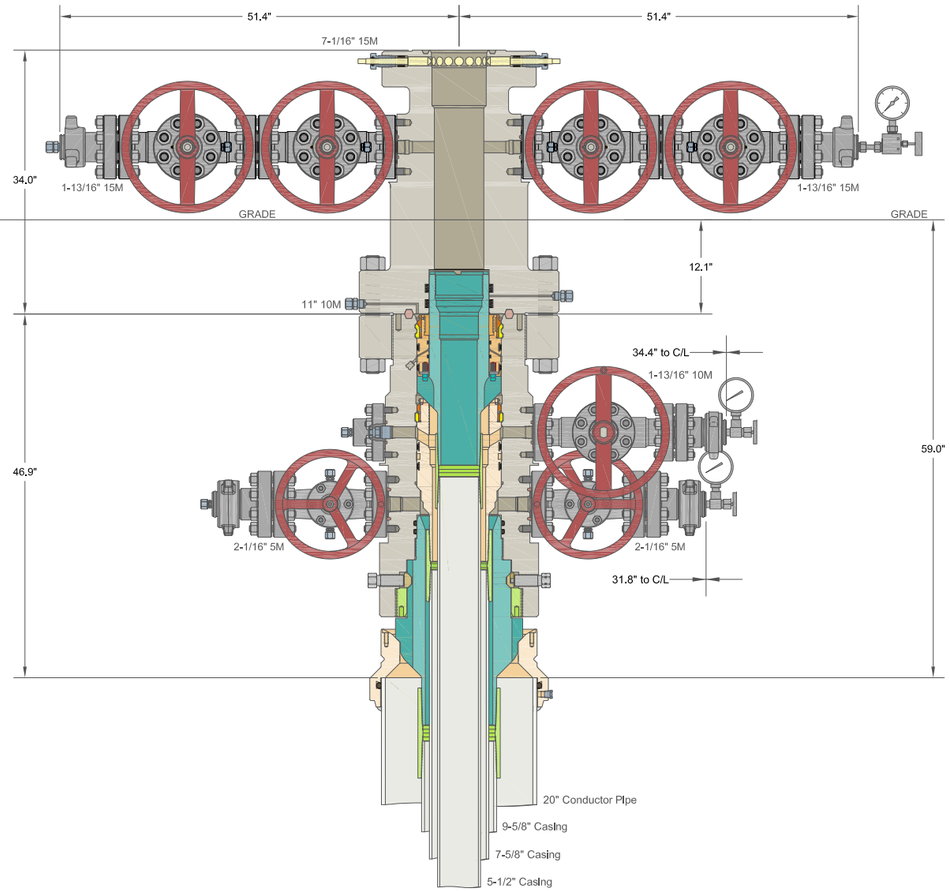
Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape

FTP 3	11361.59	440394.90	662637.30	7262.00	RECTANGLE
LTP 3	21724.94	430031.80	662707.60	7262.00	RECTANGLE
BHL 3	21775.00	429981.80	662708.00	7262.00	RECTANGLE









ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

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

DRAWN	VJK	31MAR22
APPRV		

DRAWING NO. HBE0000479

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 294440

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 294440
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	12/14/2023