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

Sundry Print Report
02/02/2024

Well Name: POKER LAKE UNIT 29-20 BS	**Well Location:** T25S / R31E / SEC 29 / NWNE /	**County or Parish/State:**
Well Number: 125H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMLC062140A	**Unit or CA Name:**	**Unit or CA Number:** NMNM71016X
US Well Number: 3001553845	**Well Status:** Approved Application for Permit to Drill	**Operator:** XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2765091

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/07/2023

Time Sundry Submitted: 02:50

Date proposed operation will begin: 01/05/2024

Procedure Description: Pool Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. POOL: FROM: (98220) Purple Sage; Wolfcamp (gas) TO: WC; Big Sinks; Bone Spring (96654) FTP: FROM: 2310' FNL & 2430' FEL TO: 2115' FNL & 770' FWL of Section 28-T25S-R31E PPP1: 0' FNL & 756' FWL LTP: FROM: 100' FNL & 2430' FEL TO: 2563' FSL & 770' FWL of Section 16-T25S-R31E BHL: FROM: 50' FNL & 2430' FEL TO: 2662' FSL & 770' FWL of Section 16-T25S-R31E HOLE AND CASING SIZES: surface, intermediate and production hole, casing and cement will be downsized based on the attached drilling program. Due to the downsize in these strings, the wellhead configuration has also changed based on the attached drilling program. Casing/Cement design per the attached drilling program. Attachments: C102 Drilling Program Directional Plan MBS

NOI Attachments

Procedure Description

Poker_Lake_Unit_29_20_BS_125H_Sundry_Attachments_20231207144952.pdf

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Conditions of Approval

Additional

Sec_29_25S_31E_NMP_Sundry_2765091_Poker_Lake_Unit_29_20_BS_125H_COAs_20240126092318.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: CASSIE EVANS

Signed on: JAN 23, 2024 12:12 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 Holiday Hill Road, Bldg 5

City: Midland **State:** TX

Phone: (432) 218-3671

Email address: CASSIE.EVANS@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: 02/02/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMLC062140A

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 29-20 BS/125H

2. Name of Operator XTO PERMIAN OPERATING LLC

9. API Well No. 3001553845

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 PURPLE SAGE/WOLFCAMP

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 29/T25S/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.)

Pool Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change.

POOL: FROM: (98220) Purple Sage; Wolfcamp (gas) TO: WC; Big Sinks; Bone Spring (96654)
FTP: FROM: 2310 FNL & 2430 FEL TO: 2115 FNL & 770 FWL of Section 28-T25S-R31E
PPP1: 0 FNL & 756 FWL
LTP: FROM: 100 FNL & 2430 FEL TO: 2563 FSL & 770 FWL of Section 16-T25S-R31E
BHL: FROM: 50 FNL & 2430 FEL TO: 2662 FSL & 770 FWL of Section 16-T25S-R31E

HOLE AND CASING SIZES: surface, intermediate and production hole, casing and cement will be downsized based on the attached drilling program. Due to the downsize in these strings, the wellhead configuration has also changed based on the attached drilling program. Casing/Cement design per the attached drilling program.

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)* CASSIE EVANS / Ph: (432) 218-3671

Title Regulatory Analyst

Signature (Electronic Submission)

Date 01/23/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 02/02/2024

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

Attachments:

C102

Drilling Program

Directional Plan

MBS

Location of Well

0. SHL: NWNE / 537 FNL / 1482 FEL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.107089 / LONG: -103.796493 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2310 FNL / 2430 FEL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.10221 / LONG: -103.799577 (TVD: 12425 feet, MD: 13079 feet)

PPP: SWSE / 537 FSL / 2430 FEL / TWSP: 25S / RANGE: 31E / SECTION: 20 / LAT: 32.110387 / LONG: -103.798103 (TVD: 12425 feet, MD: 15719 feet)

BHL: NWNE / 50 FNL / 2430 FEL / TWSP: 25S / RANGE: 31E / SECTION: 20 / LAT: 32.122993 / LONG: -103.799439 (TVD: 12425 feet, MD: 20640 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 29-20 BS 125H
LOCATION:	Sec 29-25S-31E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2765091** on 01/26/2024. 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 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately 931 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. **NOTE: This area has a high dissolution of salt, so the operator may need to make adjustments to their surface set depths to find a competent set point.**

    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 6881'**

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. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **300 feet** into previous casing string (due to not meeting the 0.422" clearance requirement.) Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.

- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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

GENERAL REQUIREMENTS

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

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

- **Eddy County (API No. / US Well No. contains 30-015-#####)**
  Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
  BLM_NM_CFO_DrillingNotifications@BLM.GOV
  (575) 361-2822

- **Lea County (API No. / US Well No. contains 30-025-#####)**
  Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
  (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The

casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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	[2] Pool Code	[3] Pool Name
30-015-53845	96654	WC; Big Sinks; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT 29-20 BS	125H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO Permian Operating, LLC.	3,359'

[10] Surface Location

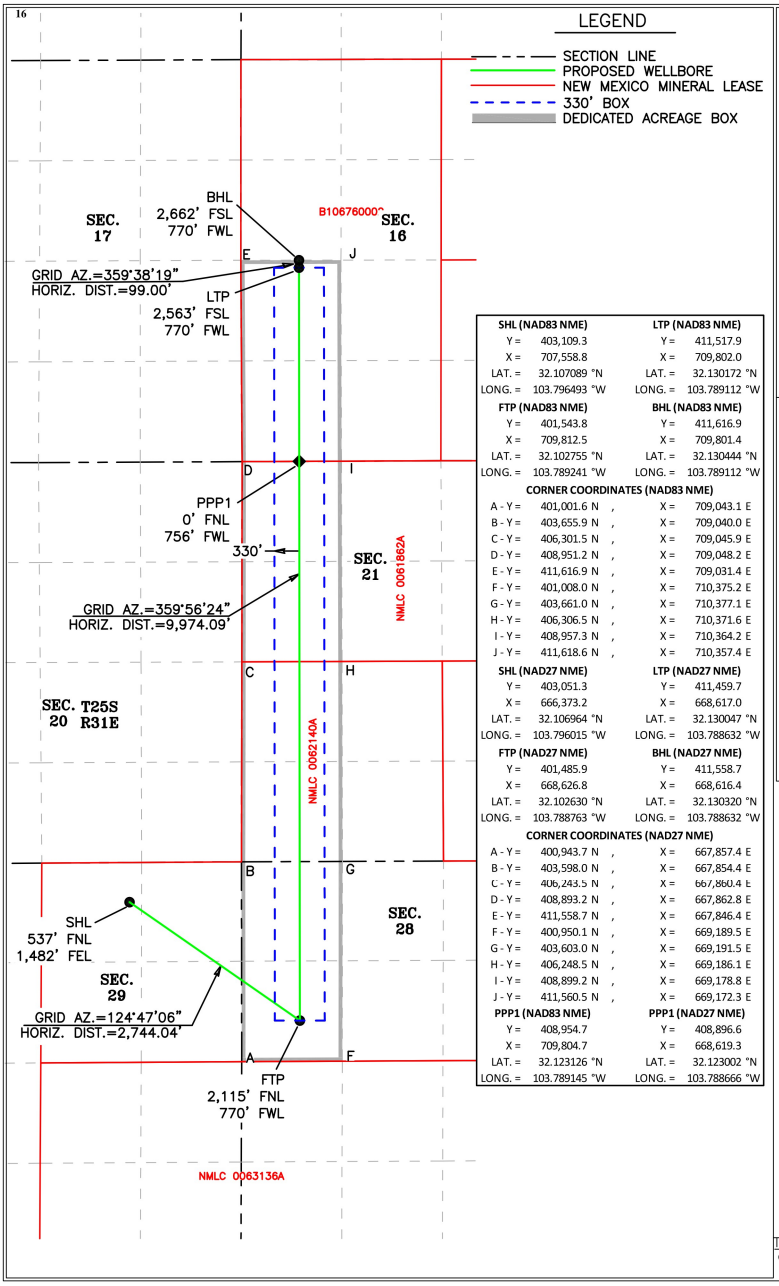
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	29	25 S	31 E		537	NORTH	1,482	EAST	EDDY

[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
L	16	25 S	31 E		2,662	SOUTH	770	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	403,109.3	Y =	411,517.9
X =	707,558.8	X =	709,802.0
LAT. =	32.107089 °N	LAT. =	32.130172 °N
LONG. =	103.796493 °W	LONG. =	103.789112 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	401,543.8	Y =	411,616.9
X =	709,812.5	X =	709,801.4
LAT. =	32.102755 °N	LAT. =	32.130444 °N
LONG. =	103.789241 °W	LONG. =	103.789112 °W

CORNER COORDINATES (NAD83 NME)			
A - Y =	401,001.6 N	X =	709,043.1 E
B - Y =	403,655.9 N	X =	709,040.0 E
C - Y =	406,301.5 N	X =	709,045.9 E
D - Y =	408,951.2 N	X =	709,048.2 E
E - Y =	411,616.9 N	X =	709,031.4 E
F - Y =	401,008.0 N	X =	710,375.2 E
G - Y =	403,661.0 N	X =	710,377.1 E
H - Y =	406,306.5 N	X =	710,371.6 E
I - Y =	408,957.3 N	X =	710,364.2 E
J - Y =	411,618.6 N	X =	710,357.4 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	403,051.3	Y =	411,459.7
X =	666,373.2	X =	668,617.0
LAT. =	32.106964 °N	LAT. =	32.130047 °N
LONG. =	103.796015 °W	LONG. =	103.788632 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	401,485.9	Y =	411,558.7
X =	668,626.8	X =	668,616.4
LAT. =	32.102630 °N	LAT. =	32.130320 °N
LONG. =	103.788763 °W	LONG. =	103.788632 °W

CORNER COORDINATES (NAD27 NME)			
A - Y =	400,943.7 N	X =	667,857.4 E
B - Y =	403,598.0 N	X =	667,854.4 E
C - Y =	406,243.5 N	X =	667,860.4 E
D - Y =	408,893.2 N	X =	667,862.8 E
E - Y =	411,558.7 N	X =	667,846.4 E
F - Y =	400,950.1 N	X =	669,189.5 E
G - Y =	403,603.0 N	X =	669,191.5 E
H - Y =	406,248.5 N	X =	669,186.1 E
I - Y =	408,899.2 N	X =	669,178.8 E
J - Y =	411,560.5 N	X =	669,172.3 E

PPP1 (NAD83 NME)		PPP1 (NAD27 NME)	
Y =	408,954.7	Y =	408,896.6
X =	709,804.7	X =	668,619.3
LAT. =	32.123126 °N	LAT. =	32.123002 °N
LONG. =	103.789145 °W	LONG. =	103.788666 °W

[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.

Terra Sebastian — Signature
12/07/2023 — Date

Terra Sebastian — Printed Name

terra.b.sebastian@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.

10-15-2023 — Date of Survey

LM 2019082888

Signatue and Seal of Professional Surveyor:

I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

16 OCT 2023

TIM C. PAPPAS
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 21209

TIM C. PAPPAS NEW MEXICO 21209 PROFESSIONAL SURVEYOR

TIM C. PAPPAS 21290
Certificate Number

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

XTO Energy Inc.
Poker Lake Unit 29-20 BS 125H
Projected TD: 22133.18' MD / 10864' TVD
SHL: 537' FNL & 1482' FEL , Section 29, T25S, R31E
BHL: 2662' FSL & 770' FWL , Section 16, T25S, 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	831'	Water
Top of Salt	1208'	Water
Base of Salt	3993'	Water
Delaware	4202'	Water
Brushy Canyon	6881'	Water/Oil/Gas
Bone Spring	8152'	Water
1st Bone Spring	8983'	Water/Oil/Gas
2nd Bone Spring	9607'	Water/Oil/Gas
3rd Bone Spring	10274'	Water/Oil/Gas
Target/Land Curve	10864'	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 @ 931' (277' 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 10735.51' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 22133.18 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 10435.51 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 931'	9.625	40	J-55	BTC	New	1.34	6.76	16.92
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.67	2.71	1.75
8.75	4000' – 10735.51'	7.625	29.7	HC L-80	Flush Joint	New	1.94	1.94	2.03
6.75	0' – 10635.51'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.91	2.06
6.75	10635.51' - 22133.18'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.87	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 +/- 931'

Lead: 210 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 +/- 10735.51'
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: 350 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6881
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 (6881') 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 +/- 22133.18'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 10435.51 feet
Tail: 800 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10935.51 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 3542 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' - 931'	12.25	FW/Native	8.4-8.9	35-40	NC
931' - 10735.51'	8.75	FW / Cut Brine / Direct Emulsion	9.5-10	30-32	NC
10735.51' - 22133.18'	6.75	OBM	10.5-11	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 175 to 195 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 5932 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 - PLU 29-20 125H

Measured Depth:	22133.18 ft	**Site:**	B
TVD RKB:	10864.00 ft	**Slot:**	PLU 29-20 125H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	403051.30 ft		
Easting:	666373.20 ft		
RKB:	3391.00 ft		
Ground Level:	3359.00 ft		
North Reference:	Grid		
Convergence Angle:	0.29 Deg		

Plan Sections PLU 29-20 125H

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	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
2597.26	29.95	135.34	2530.02	-272.05	268.80	2.00	0.00	2.00	
7490.44	29.95	135.34	6769.98	-2009.55	1985.51	0.00	0.00	0.00	
8987.71	0.00	0.00	8200.00	-2281.60	2254.30	-2.00	0.00	2.00	
10935.51	0.00	0.00	10147.80	-2281.60	2254.30	0.00	0.00	0.00	
12060.51	90.00	359.94	10864.00	-1565.40	2253.60	8.00	0.00	8.00	FTP 5
22034.31	90.00	359.94	10864.00	8408.40	2243.80	0.00	0.00	0.00	LTP 5
22133.18	90.00	359.94	10864.00	8507.27	2243.70	0.00	0.00	0.00	BHL 5

Position Uncertainty PLU 29-20 125H

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	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.531	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.581	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.634	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	135.345	1199.980	4.360	0.000	5.026	-0.000	2.691	0.000	0.000	5.036	4.351	128.215	MWD+IFR1+MS
1300.000	4.000	135.345	1299.838	5.223	0.000	5.340	-0.000	2.751	0.000	0.000	5.502	5.060	97.577	MWD+IFR1+MS
1400.000	6.000	135.345	1399.452	5.977	0.000	5.661	-0.000	2.816	0.000	0.000	6.179	5.457	76.632	MWD+IFR1+MS
1500.000	8.000	135.345	1498.702	6.659	0.000	5.987	-0.000	2.889	0.000	0.000	6.862	5.783	70.135	MWD+IFR1+MS
1600.000	10.000	135.345	1597.465	7.287	0.000	6.320	-0.000	2.972	0.000	0.000	7.509	6.103	67.388	MWD+IFR1+MS
1700.000	12.000	135.345	1695.623	7.873	0.000	6.659	-0.000	3.067	0.000	0.000	8.119	6.426	65.945	MWD+IFR1+MS
1800.000	14.000	135.345	1793.055	8.425	0.000	7.006	-0.000	3.175	0.000	0.000	8.700	6.757	65.100	MWD+IFR1+MS
1900.000	16.000	135.345	1889.643	8.949	0.000	7.362	-0.000	3.298	0.000	0.000	9.255	7.097	64.586	MWD+IFR1+MS
2000.000	18.000	135.345	1985.268	9.449	0.000	7.728	-0.000	3.438	0.000	0.000	9.789	7.448	64.282	MWD+IFR1+MS
2100.000	20.000	135.345	2079.816	9.929	0.000	8.104	-0.000	3.596	0.000	0.000	10.304	7.810	64.128	MWD+IFR1+MS
2200.000	22.000	135.345	2173.169	10.390	0.000	8.493	-0.000	3.772	0.000	0.000	10.803	8.185	64.093	MWD+IFR1+MS
2300.000	24.000	135.345	2265.215	10.836	0.000	8.896	-0.000	3.969	0.000	0.000	11.289	8.574	64.163	MWD+IFR1+MS
2400.000	26.000	135.345	2355.841	11.268	0.000	9.313	-0.000	4.187	0.000	0.000	11.762	8.979	64.334	MWD+IFR1+MS
2500.000	28.000	135.345	2444.937	11.688	0.000	9.747	-0.000	4.426	0.000	0.000	12.224	9.400	64.609	MWD+IFR1+MS
2597.264	29.945	135.345	2530.024	12.074	0.000	10.185	-0.000	4.672	0.000	0.000	12.656	9.826	64.997	MWD+IFR1+MS
2600.000	29.945	135.345	2532.395	12.082	0.000	10.197	-0.000	4.668	0.000	0.000	12.666	9.838	64.993	MWD+IFR1+MS
2700.000	29.945	135.345	2619.045	12.394	0.000	10.652	-0.000	4.819	0.000	0.000	12.945	10.292	65.832	MWD+IFR1+MS
2800.000	29.945	135.345	2705.696	12.729	0.000	11.131	-0.000	4.988	0.000	0.000	13.248	10.760	66.993	MWD+IFR1+MS
2900.000	29.945	135.345	2792.346	13.074	0.000	11.619	-0.000	5.164	0.000	0.000	13.563	11.234	68.321	MWD+IFR1+MS

3000.000	29.945	135.345	2878.996	13.429	0.000	12.116	-0.000	5.349	0.000	0.000	13.888	11.715	69.843	MWD+IFR1+MS
3100.000	29.945	135.345	2965.646	13.794	0.000	12.620	-0.000	5.540	0.000	0.000	14.223	12.198	71.593	MWD+IFR1+MS
3200.000	29.945	135.345	3052.297	14.167	0.000	13.131	-0.000	5.738	0.000	0.000	14.570	12.684	73.606	MWD+IFR1+MS
3300.000	29.945	135.345	3138.947	14.547	0.000	13.647	-0.000	5.942	0.000	0.000	14.928	13.170	75.917	MWD+IFR1+MS
3400.000	29.945	135.345	3225.597	14.935	0.000	14.168	-0.000	6.150	0.000	0.000	15.299	13.655	78.558	MWD+IFR1+MS
3500.000	29.945	135.345	3312.247	15.330	0.000	14.694	-0.000	6.364	0.000	0.000	15.683	14.136	81.546	MWD+IFR1+MS
3600.000	29.945	135.345	3398.898	15.731	0.000	15.224	-0.000	6.582	0.000	0.000	16.081	14.612	84.873	MWD+IFR1+MS
3700.000	29.945	135.345	3485.548	16.138	0.000	15.758	-0.000	6.803	0.000	0.000	16.495	15.082	88.494	MWD+IFR1+MS
3800.000	29.945	135.345	3572.198	16.550	0.000	16.296	-0.000	7.029	0.000	0.000	16.924	15.542	92.317	MWD+IFR1+MS
3900.000	29.945	135.345	3658.849	16.967	0.000	16.836	-0.000	7.257	0.000	0.000	17.370	15.994	96.215	MWD+IFR1+MS
4000.000	29.945	135.345	3745.499	17.388	0.000	17.379	-0.000	7.489	0.000	0.000	17.832	16.436	100.044	MWD+IFR1+MS
4100.000	29.945	135.345	3832.149	17.814	0.000	17.924	-0.000	7.723	0.000	0.000	18.310	16.870	103.676	MWD+IFR1+MS
4200.000	29.945	135.345	3918.799	18.244	0.000	18.472	-0.000	7.960	0.000	0.000	18.800	17.295	107.018	MWD+IFR1+MS
4300.000	29.945	135.345	4005.450	18.677	0.000	19.022	-0.000	8.200	0.000	0.000	19.302	17.714	110.024	MWD+IFR1+MS
4400.000	29.945	135.345	4092.100	19.114	0.000	19.573	-0.000	8.441	0.000	0.000	19.815	18.128	112.684	MWD+IFR1+MS
4500.000	29.945	135.345	4178.750	19.554	0.000	20.127	-0.000	8.685	0.000	0.000	20.335	18.539	115.016	MWD+IFR1+MS
4600.000	29.945	135.345	4265.400	19.997	0.000	20.682	-0.000	8.931	0.000	0.000	20.863	18.946	117.051	MWD+IFR1+MS
4700.000	29.945	135.345	4352.051	20.442	0.000	21.239	-0.000	9.179	0.000	0.000	21.397	19.352	118.825	MWD+IFR1+MS
4800.000	29.945	135.345	4438.701	20.891	0.000	21.796	-0.000	9.428	0.000	0.000	21.935	19.757	120.372	MWD+IFR1+MS
4900.000	29.945	135.345	4525.351	21.341	0.000	22.356	-0.000	9.679	0.000	0.000	22.478	20.161	121.727	MWD+IFR1+MS
5000.000	29.945	135.345	4612.001	21.795	0.000	22.916	-0.000	9.932	0.000	0.000	23.024	20.564	122.917	MWD+IFR1+MS
5100.000	29.945	135.345	4698.652	22.250	0.000	23.477	-0.000	10.187	0.000	0.000	23.573	20.968	123.968	MWD+IFR1+MS
5200.000	29.945	135.345	4785.302	22.707	0.000	24.040	-0.000	10.442	0.000	0.000	24.125	21.372	124.899	MWD+IFR1+MS
5300.000	29.945	135.345	4871.952	23.166	0.000	24.603	-0.000	10.700	0.000	0.000	24.680	21.777	125.728	MWD+IFR1+MS
5400.000	29.945	135.345	4958.602	23.627	0.000	25.167	-0.000	10.958	0.000	0.000	25.236	22.183	126.470	MWD+IFR1+MS
5500.000	29.945	135.345	5045.253	24.090	0.000	25.733	-0.000	11.218	0.000	0.000	25.794	22.589	127.137	MWD+IFR1+MS
5600.000	29.945	135.345	5131.903	24.554	0.000	26.298	-0.000	11.479	0.000	0.000	26.354	22.995	127.739	MWD+IFR1+MS
5700.000	29.945	135.345	5218.553	25.020	0.000	26.865	-0.000	11.742	0.000	0.000	26.915	23.403	128.285	MWD+IFR1+MS
5800.000	29.945	135.345	5305.203	25.487	0.000	27.432	-0.000	12.006	0.000	0.000	27.477	23.812	128.781	MWD+IFR1+MS
5900.000	29.945	135.345	5391.854	25.955	0.000	28.000	-0.000	12.271	0.000	0.000	28.040	24.221	129.234	MWD+IFR1+MS
6000.000	29.945	135.345	5478.504	26.425	0.000	28.569	-0.000	12.537	0.000	0.000	28.605	24.631	129.649	MWD+IFR1+MS
6100.000	29.945	135.345	5565.154	26.896	0.000	29.138	-0.000	12.804	0.000	0.000	29.171	25.043	130.030	MWD+IFR1+MS
6200.000	29.945	135.345	5651.805	27.368	0.000	29.707	-0.000	13.072	0.000	0.000	29.737	25.455	130.382	MWD+IFR1+MS

6300.000	29.945	135.345	5738.455	27.842	0.000	30.277	-0.000	13.342	0.000	0.000	30.304	25.868	130.706	MWD+IFR1+MS
6400.000	29.945	135.345	5825.105	28.316	0.000	30.848	-0.000	13.612	0.000	0.000	30.872	26.281	131.007	MWD+IFR1+MS
6500.000	29.945	135.345	5911.755	28.791	0.000	31.419	-0.000	13.884	0.000	0.000	31.441	26.696	131.287	MWD+IFR1+MS
6600.000	29.945	135.345	5998.406	29.267	0.000	31.990	-0.000	14.156	0.000	0.000	32.010	27.112	131.548	MWD+IFR1+MS
6700.000	29.945	135.345	6085.056	29.745	0.000	32.562	-0.000	14.430	0.000	0.000	32.580	27.528	131.791	MWD+IFR1+MS
6800.000	29.945	135.345	6171.706	30.222	0.000	33.134	-0.000	14.705	0.000	0.000	33.150	27.945	132.018	MWD+IFR1+MS
6900.000	29.945	135.345	6258.356	30.701	0.000	33.707	-0.000	14.981	0.000	0.000	33.721	28.363	132.231	MWD+IFR1+MS
7000.000	29.945	135.345	6345.007	31.181	0.000	34.279	-0.000	15.258	0.000	0.000	34.293	28.782	132.431	MWD+IFR1+MS
7100.000	29.945	135.345	6431.657	31.661	0.000	34.853	-0.000	15.536	0.000	0.000	34.864	29.201	132.619	MWD+IFR1+MS
7200.000	29.945	135.345	6518.307	32.142	0.000	35.426	-0.000	15.815	0.000	0.000	35.437	29.622	132.797	MWD+IFR1+MS
7300.000	29.945	135.345	6604.957	32.624	0.000	36.000	-0.000	16.095	0.000	0.000	36.009	30.043	132.964	MWD+IFR1+MS
7400.000	29.945	135.345	6691.608	33.106	0.000	36.574	-0.000	16.376	0.000	0.000	36.582	30.464	133.122	MWD+IFR1+MS
7490.442	29.945	135.345	6769.976	33.542	0.000	37.093	-0.000	16.630	0.000	0.000	37.100	30.845	133.265	MWD+IFR1+MS
7500.000	29.754	135.345	6778.266	33.596	0.000	37.147	-0.000	16.657	0.000	0.000	37.154	30.885	133.282	MWD+IFR1+MS
7600.000	27.754	135.345	6865.931	34.167	0.000	37.705	-0.000	16.941	0.000	0.000	37.712	31.321	133.405	MWD+IFR1+MS
7700.000	25.754	135.345	6955.221	34.741	0.000	38.244	-0.000	17.232	0.000	0.000	38.251	31.801	133.390	MWD+IFR1+MS
7800.000	23.754	135.345	7046.027	35.261	0.000	38.761	-0.000	17.502	0.000	0.000	38.768	32.276	133.365	MWD+IFR1+MS
7900.000	21.754	135.345	7138.240	35.727	0.000	39.255	-0.000	17.753	0.000	0.000	39.263	32.746	133.330	MWD+IFR1+MS
8000.000	19.754	135.345	7231.746	36.137	0.000	39.726	-0.000	17.985	0.000	0.000	39.734	33.210	133.284	MWD+IFR1+MS
8100.000	17.754	135.345	7326.432	36.492	0.000	40.175	-0.000	18.199	0.000	0.000	40.183	33.666	133.229	MWD+IFR1+MS
8200.000	15.754	135.345	7422.182	36.791	0.000	40.601	-0.000	18.397	0.000	0.000	40.609	34.112	133.163	MWD+IFR1+MS
8300.000	13.754	135.345	7518.880	37.034	0.000	41.004	-0.000	18.581	0.000	0.000	41.014	34.547	133.088	MWD+IFR1+MS
8400.000	11.754	135.345	7616.408	37.220	0.000	41.386	-0.000	18.750	0.000	0.000	41.396	34.970	133.003	MWD+IFR1+MS
8500.000	9.754	135.345	7714.647	37.350	0.000	41.746	-0.000	18.908	0.000	0.000	41.756	35.381	132.908	MWD+IFR1+MS
8600.000	7.754	135.345	7813.477	37.423	0.000	42.085	-0.000	19.055	0.000	0.000	42.096	35.777	132.803	MWD+IFR1+MS
8700.000	5.754	135.345	7912.778	37.441	0.000	42.403	-0.000	19.192	0.000	0.000	42.416	36.159	132.689	MWD+IFR1+MS
8800.000	3.754	135.345	8012.429	37.404	0.000	42.702	-0.000	19.321	0.000	0.000	42.715	36.525	132.566	MWD+IFR1+MS
8900.000	1.754	135.345	8112.308	37.311	0.000	42.981	-0.000	19.444	0.000	0.000	42.996	36.875	132.433	MWD+IFR1+MS
8987.706	0.000	0.000	8200.000	40.543	0.000	40.003	0.000	19.548	0.000	0.000	43.213	37.102	132.462	MWD+IFR1+MS
9000.000	0.000	0.000	8212.294	40.572	0.000	40.031	0.000	19.562	0.000	0.000	43.241	37.132	132.453	MWD+IFR1+MS
9100.000	0.000	0.000	8312.294	40.811	0.000	40.257	0.000	19.680	0.000	0.000	43.469	37.372	132.388	MWD+IFR1+MS
9200.000	0.000	0.000	8412.294	41.055	0.000	40.489	0.000	19.802	0.000	0.000	43.704	37.614	132.326	MWD+IFR1+MS
9300.000	0.000	0.000	8512.294	41.301	0.000	40.722	0.000	19.926	0.000	0.000	43.941	37.858	132.264	MWD+IFR1+MS

9400.000	0.000	0.000	8612.294	41.548	0.000	40.957	0.000	20.054	0.000	0.000	44.179	38.104	132.204	MWD+IFR1+MS
9500.000	0.000	0.000	8712.294	41.797	0.000	41.194	0.000	20.185	0.000	0.000	44.419	38.351	132.143	MWD+IFR1+MS
9600.000	0.000	0.000	8812.294	42.047	0.000	41.433	0.000	20.319	0.000	0.000	44.661	38.600	132.084	MWD+IFR1+MS
9700.000	0.000	0.000	8912.294	42.299	0.000	41.673	0.000	20.457	0.000	0.000	44.904	38.851	132.025	MWD+IFR1+MS
9800.000	0.000	0.000	9012.294	42.552	0.000	41.915	0.000	20.598	0.000	0.000	45.149	39.104	131.966	MWD+IFR1+MS
9900.000	0.000	0.000	9112.294	42.807	0.000	42.159	0.000	20.743	0.000	0.000	45.395	39.358	131.908	MWD+IFR1+MS
10000.000	0.000	0.000	9212.294	43.064	0.000	42.404	0.000	20.891	0.000	0.000	45.643	39.614	131.851	MWD+IFR1+MS
10100.000	0.000	0.000	9312.294	43.322	0.000	42.651	0.000	21.043	0.000	0.000	45.893	39.871	131.794	MWD+IFR1+MS
10200.000	0.000	0.000	9412.294	43.581	0.000	42.899	0.000	21.198	0.000	0.000	46.143	40.130	131.737	MWD+IFR1+MS
10300.000	0.000	0.000	9512.294	43.842	0.000	43.149	0.000	21.356	0.000	0.000	46.396	40.391	131.681	MWD+IFR1+MS
10400.000	0.000	0.000	9612.294	44.104	0.000	43.401	0.000	21.519	0.000	0.000	46.649	40.653	131.626	MWD+IFR1+MS
10500.000	0.000	0.000	9712.294	44.367	0.000	43.654	0.000	21.685	0.000	0.000	46.904	40.916	131.571	MWD+IFR1+MS
10600.000	0.000	0.000	9812.294	44.632	0.000	43.908	0.000	21.854	0.000	0.000	47.160	41.181	131.516	MWD+IFR1+MS
10700.000	0.000	0.000	9912.294	44.898	0.000	44.164	0.000	22.027	0.000	0.000	47.418	41.447	131.463	MWD+IFR1+MS
10800.000	0.000	0.000	10012.294	45.165	0.000	44.422	0.000	22.204	0.000	0.000	47.677	41.714	131.409	MWD+IFR1+MS
10900.000	0.000	0.000	10112.294	45.434	0.000	44.680	0.000	22.385	0.000	0.000	47.937	41.983	131.356	MWD+IFR1+MS
10935.508	0.000	0.000	10147.803	45.529	0.000	44.771	0.000	22.450	0.000	0.000	48.028	42.079	131.336	MWD+IFR1+MS
11000.000	5.159	359.944	10212.207	44.788	0.000	44.938	0.000	22.567	0.000	0.000	48.215	42.260	131.115	MWD+IFR1+MS
11100.000	13.159	359.944	10310.852	43.677	0.000	45.168	0.000	22.784	0.000	0.000	48.825	42.710	128.350	MWD+IFR1+MS
11200.000	21.159	359.944	10406.323	42.306	0.000	45.372	0.000	23.129	0.000	0.000	49.588	43.154	124.951	MWD+IFR1+MS
11300.000	29.159	359.944	10496.763	40.480	0.000	45.547	0.000	23.658	0.000	0.000	50.281	43.487	122.397	MWD+IFR1+MS
11400.000	37.159	359.944	10580.410	38.357	0.000	45.693	0.000	24.413	0.000	0.000	50.872	43.729	120.590	MWD+IFR1+MS
11500.000	45.159	359.944	10655.637	36.142	0.000	45.809	0.000	25.408	0.000	0.000	51.341	43.900	119.390	MWD+IFR1+MS
11600.000	53.159	359.944	10720.980	34.090	0.000	45.897	0.000	26.632	0.000	0.000	51.682	44.013	118.658	MWD+IFR1+MS
11700.000	61.159	359.944	10775.166	32.491	0.000	45.960	0.000	28.052	0.000	0.000	51.901	44.084	118.264	MWD+IFR1+MS
11800.000	69.159	359.944	10817.142	31.633	0.000	45.998	0.000	29.617	0.000	0.000	52.014	44.126	118.086	MWD+IFR1+MS
11900.000	77.159	359.944	10846.089	31.727	0.000	46.014	0.000	31.269	0.000	0.000	52.042	44.151	118.002	MWD+IFR1+MS
12000.000	85.159	359.944	10861.445	32.834	0.000	46.009	0.000	32.950	0.000	0.000	52.013	44.173	117.885	MWD+IFR1+MS
12060.508	90.000	359.944	10864.000	33.482	0.000	45.994	0.000	33.482	0.000	0.000	51.982	44.188	117.730	MWD+IFR1+MS
12100.000	90.000	359.944	10864.000	33.651	0.000	45.983	0.000	33.651	0.000	0.000	51.960	44.199	117.604	MWD+IFR1+MS
12200.000	90.000	359.944	10864.000	34.042	0.000	45.969	0.000	34.042	0.000	0.000	51.909	44.240	117.329	MWD+IFR1+MS
12300.000	90.000	359.944	10864.000	34.448	0.000	45.975	0.000	34.448	0.000	0.000	51.862	44.296	117.101	MWD+IFR1+MS
12400.000	90.000	359.944	10864.000	34.867	0.000	45.998	0.000	34.867	0.000	0.000	51.819	44.366	116.915	MWD+IFR1+MS

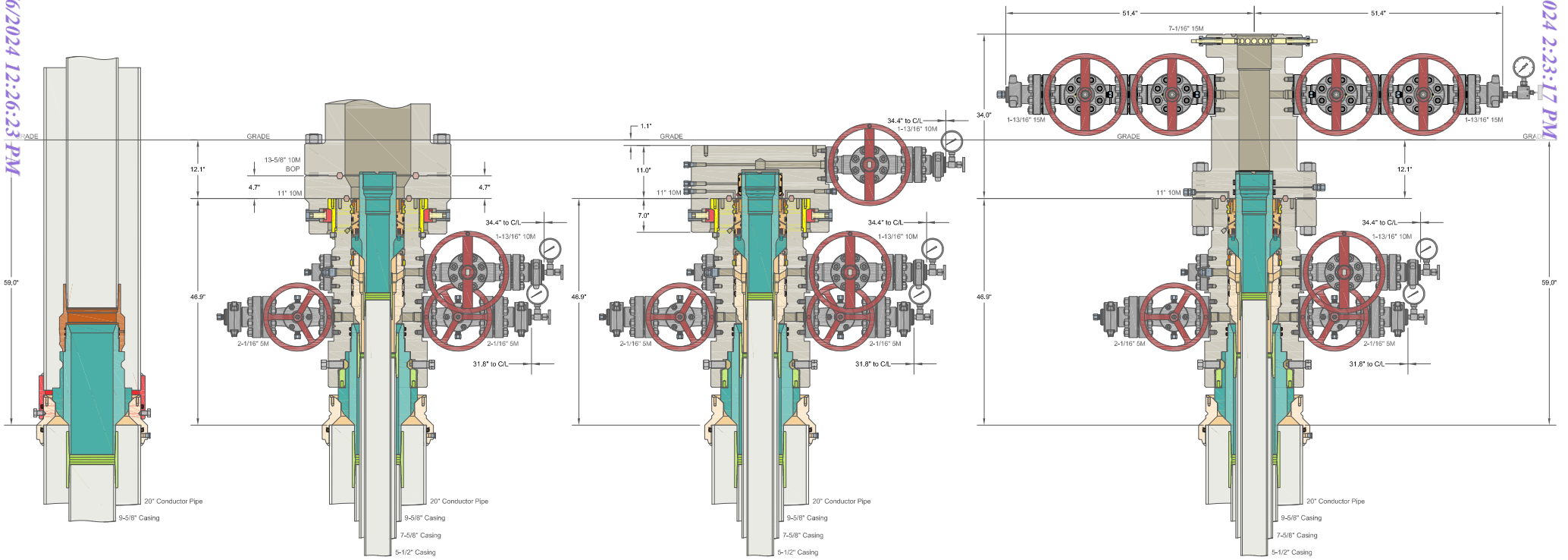
12500.000	90.000	359.944	10864.000	35.299	0.000	46.038	0.000	35.299	0.000	0.000	51.779	44.450	116.772	MWD+IFR1+MS
12600.000	90.000	359.944	10864.000	35.743	0.000	46.094	0.000	35.743	0.000	0.000	51.743	44.547	116.675	MWD+IFR1+MS
12700.000	90.000	359.944	10864.000	36.198	0.000	46.167	0.000	36.198	0.000	0.000	51.710	44.658	116.625	MWD+IFR1+MS
12800.000	90.000	359.944	10864.000	36.664	0.000	46.257	0.000	36.664	0.000	0.000	51.681	44.783	116.625	MWD+IFR1+MS
12900.000	90.000	359.944	10864.000	37.142	0.000	46.363	0.000	37.142	0.000	0.000	51.655	44.922	116.677	MWD+IFR1+MS
13000.000	90.000	359.944	10864.000	37.629	0.000	46.486	0.000	37.629	0.000	0.000	51.633	45.073	116.787	MWD+IFR1+MS
13100.000	90.000	359.944	10864.000	38.127	0.000	46.625	0.000	38.127	0.000	0.000	51.614	45.238	116.959	MWD+IFR1+MS
13200.000	90.000	359.944	10864.000	38.633	0.000	46.780	0.000	38.633	0.000	0.000	51.598	45.416	117.198	MWD+IFR1+MS
13300.000	90.000	359.944	10864.000	39.150	0.000	46.952	0.000	39.150	0.000	0.000	51.587	45.606	117.513	MWD+IFR1+MS
13400.000	90.000	359.944	10864.000	39.675	0.000	47.139	0.000	39.675	0.000	0.000	51.579	45.809	117.912	MWD+IFR1+MS
13500.000	90.000	359.944	10864.000	40.208	0.000	47.342	0.000	40.208	0.000	0.000	51.576	46.023	118.405	MWD+IFR1+MS
13600.000	90.000	359.944	10864.000	40.749	0.000	47.560	0.000	40.749	0.000	0.000	51.578	46.248	119.006	MWD+IFR1+MS
13700.000	90.000	359.944	10864.000	41.299	0.000	47.793	0.000	41.299	0.000	0.000	51.585	46.484	119.730	MWD+IFR1+MS
13800.000	90.000	359.944	10864.000	41.856	0.000	48.042	0.000	41.856	0.000	0.000	51.598	46.729	120.596	MWD+IFR1+MS
13900.000	90.000	359.944	10864.000	42.420	0.000	48.305	0.000	42.420	0.000	0.000	51.617	46.982	121.627	MWD+IFR1+MS
14000.000	90.000	359.944	10864.000	42.991	0.000	48.583	0.000	42.991	0.000	0.000	51.645	47.242	122.848	MWD+IFR1+MS
14100.000	90.000	359.944	10864.000	43.568	0.000	48.875	0.000	43.568	0.000	0.000	51.682	47.508	124.291	MWD+IFR1+MS
14200.000	90.000	359.944	10864.000	44.152	0.000	49.181	0.000	44.152	0.000	0.000	51.730	47.776	125.991	MWD+IFR1+MS
14300.000	90.000	359.944	10864.000	44.743	0.000	49.501	0.000	44.743	0.000	0.000	51.791	48.046	127.982	MWD+IFR1+MS
14400.000	90.000	359.944	10864.000	45.339	0.000	49.835	0.000	45.339	0.000	0.000	51.869	48.313	130.299	MWD+IFR1+MS
14500.000	90.000	359.944	10864.000	45.940	0.000	50.181	0.000	45.940	0.000	0.000	51.966	48.574	132.966	MWD+IFR1+MS
14600.000	90.000	359.944	10864.000	46.548	0.000	50.541	0.000	46.548	0.000	0.000	52.086	48.826	-44.014	MWD+IFR1+MS
14700.000	90.000	359.944	10864.000	47.160	0.000	50.914	0.000	47.160	0.000	0.000	52.233	49.063	-40.672	MWD+IFR1+MS
14800.000	90.000	359.944	10864.000	47.778	0.000	51.298	0.000	47.778	0.000	0.000	52.411	49.282	-37.082	MWD+IFR1+MS
14900.000	90.000	359.944	10864.000	48.400	0.000	51.695	0.000	48.400	0.000	0.000	52.623	49.480	-33.360	MWD+IFR1+MS
15000.000	90.000	359.944	10864.000	49.027	0.000	52.104	0.000	49.027	0.000	0.000	52.870	49.654	-29.648	MWD+IFR1+MS
15100.000	90.000	359.944	10864.000	49.658	0.000	52.525	0.000	49.658	0.000	0.000	53.153	49.806	-26.085	MWD+IFR1+MS
15200.000	90.000	359.944	10864.000	50.294	0.000	52.956	0.000	50.294	0.000	0.000	53.469	49.935	-22.777	MWD+IFR1+MS
15300.000	90.000	359.944	10864.000	50.934	0.000	53.399	0.000	50.934	0.000	0.000	53.816	50.045	-19.790	MWD+IFR1+MS
15400.000	90.000	359.944	10864.000	51.578	0.000	53.853	0.000	51.578	0.000	0.000	54.191	50.137	-17.145	MWD+IFR1+MS
15500.000	90.000	359.944	10864.000	52.226	0.000	54.317	0.000	52.226	0.000	0.000	54.591	50.216	-14.834	MWD+IFR1+MS
15600.000	90.000	359.944	10864.000	52.878	0.000	54.791	0.000	52.878	0.000	0.000	55.013	50.283	-12.829	MWD+IFR1+MS
15700.000	90.000	359.944	10864.000	53.533	0.000	55.275	0.000	53.533	0.000	0.000	55.455	50.341	-11.097	MWD+IFR1+MS

15800.000	90.000	359.944	10864.000	54.191	0.000	55.769	0.000	54.191	0.000	0.000	55.914	50.391	-9.599	MWD+IFR1+MS
15900.000	90.000	359.944	10864.000	54.853	0.000	56.273	0.000	54.853	0.000	0.000	56.389	50.435	-8.304	MWD+IFR1+MS
16000.000	90.000	359.944	10864.000	55.518	0.000	56.786	0.000	55.518	0.000	0.000	56.879	50.475	-7.179	MWD+IFR1+MS
16100.000	90.000	359.944	10864.000	56.186	0.000	57.307	0.000	56.186	0.000	0.000	57.381	50.510	-6.201	MWD+IFR1+MS
16200.000	90.000	359.944	10864.000	56.857	0.000	57.837	0.000	56.857	0.000	0.000	57.896	50.543	-5.346	MWD+IFR1+MS
16300.000	90.000	359.944	10864.000	57.531	0.000	58.376	0.000	57.531	0.000	0.000	58.422	50.573	-4.595	MWD+IFR1+MS
16400.000	90.000	359.944	10864.000	58.208	0.000	58.923	0.000	58.208	0.000	0.000	58.959	50.601	-3.935	MWD+IFR1+MS
16500.000	90.000	359.944	10864.000	58.888	0.000	59.478	0.000	58.888	0.000	0.000	59.505	50.627	-3.350	MWD+IFR1+MS
16600.000	90.000	359.944	10864.000	59.570	0.000	60.041	0.000	59.570	0.000	0.000	60.061	50.653	-2.832	MWD+IFR1+MS
16700.000	90.000	359.944	10864.000	60.254	0.000	60.611	0.000	60.254	0.000	0.000	60.626	50.677	-2.371	MWD+IFR1+MS
16800.000	90.000	359.944	10864.000	60.941	0.000	61.189	0.000	60.941	0.000	0.000	61.200	50.700	-1.959	MWD+IFR1+MS
16900.000	90.000	359.944	10864.000	61.631	0.000	61.774	0.000	61.631	0.000	0.000	61.781	50.723	-1.590	MWD+IFR1+MS
17000.000	90.000	359.944	10864.000	62.322	0.000	62.366	0.000	62.322	0.000	0.000	62.371	50.746	-1.259	MWD+IFR1+MS
17100.000	90.000	359.944	10864.000	63.016	0.000	62.965	0.000	63.016	0.000	0.000	62.967	50.768	-0.961	MWD+IFR1+MS
17200.000	90.000	359.944	10864.000	63.712	0.000	63.570	0.000	63.712	0.000	0.000	63.571	50.790	-0.691	MWD+IFR1+MS
17300.000	90.000	359.944	10864.000	64.410	0.000	64.181	0.000	64.410	0.000	0.000	64.182	50.812	-0.448	MWD+IFR1+MS
17400.000	90.000	359.944	10864.000	65.110	0.000	64.799	0.000	65.110	0.000	0.000	64.799	50.834	-0.227	MWD+IFR1+MS
17500.000	90.000	359.944	10864.000	65.811	0.000	65.423	0.000	65.811	0.000	0.000	65.423	50.856	-0.026	MWD+IFR1+MS
17600.000	90.000	359.944	10864.000	66.515	0.000	66.053	0.000	66.515	0.000	0.000	66.053	50.878	0.157	MWD+IFR1+MS
17700.000	90.000	359.944	10864.000	67.221	0.000	66.688	0.000	67.221	0.000	0.000	66.689	50.901	0.323	MWD+IFR1+MS
17800.000	90.000	359.944	10864.000	67.928	0.000	67.329	0.000	67.928	0.000	0.000	67.330	50.923	0.475	MWD+IFR1+MS
17900.000	90.000	359.944	10864.000	68.637	0.000	67.975	0.000	68.637	0.000	0.000	67.977	50.946	0.614	MWD+IFR1+MS
18000.000	90.000	359.944	10864.000	69.347	0.000	68.627	0.000	69.347	0.000	0.000	68.630	50.969	0.741	MWD+IFR1+MS
18100.000	90.000	359.944	10864.000	70.059	0.000	69.283	0.000	70.059	0.000	0.000	69.287	50.993	0.858	MWD+IFR1+MS
18200.000	90.000	359.944	10864.000	70.773	0.000	69.945	0.000	70.773	0.000	0.000	69.950	51.016	0.964	MWD+IFR1+MS
18300.000	90.000	359.944	10864.000	71.488	0.000	70.611	0.000	71.488	0.000	0.000	70.618	51.040	1.062	MWD+IFR1+MS
18400.000	90.000	359.944	10864.000	72.205	0.000	71.282	0.000	72.205	0.000	0.000	71.290	51.065	1.153	MWD+IFR1+MS
18500.000	90.000	359.944	10864.000	72.923	0.000	71.958	0.000	72.923	0.000	0.000	71.967	51.090	1.235	MWD+IFR1+MS
18600.000	90.000	359.944	10864.000	73.642	0.000	72.637	0.000	73.642	0.000	0.000	72.648	51.115	1.311	MWD+IFR1+MS
18700.000	90.000	359.944	10864.000	74.363	0.000	73.322	0.000	74.363	0.000	0.000	73.333	51.140	1.381	MWD+IFR1+MS
18800.000	90.000	359.944	10864.000	75.085	0.000	74.010	0.000	75.085	0.000	0.000	74.023	51.166	1.446	MWD+IFR1+MS
18900.000	90.000	359.944	10864.000	75.808	0.000	74.702	0.000	75.808	0.000	0.000	74.717	51.193	1.505	MWD+IFR1+MS
19000.000	90.000	359.944	10864.000	76.532	0.000	75.399	0.000	76.532	0.000	0.000	75.415	51.220	1.560	MWD+IFR1+MS

19100.000	90.000	359.944	10864.000	77.258	0.000	76.099	0.000	77.258	0.000	0.000	76.116	51.247	1.610	MWD+IFR1+MS
19200.000	90.000	359.944	10864.000	77.985	0.000	76.803	0.000	77.985	0.000	0.000	76.822	51.275	1.657	MWD+IFR1+MS
19300.000	90.000	359.944	10864.000	78.712	0.000	77.510	0.000	78.712	0.000	0.000	77.530	51.303	1.700	MWD+IFR1+MS
19400.000	90.000	359.944	10864.000	79.441	0.000	78.221	0.000	79.441	0.000	0.000	78.243	51.332	1.739	MWD+IFR1+MS
19500.000	90.000	359.944	10864.000	80.171	0.000	78.935	0.000	80.171	0.000	0.000	78.959	51.361	1.775	MWD+IFR1+MS
19600.000	90.000	359.944	10864.000	80.902	0.000	79.653	0.000	80.902	0.000	0.000	79.678	51.391	1.809	MWD+IFR1+MS
19700.000	90.000	359.944	10864.000	81.634	0.000	80.374	0.000	81.634	0.000	0.000	80.400	51.421	1.839	MWD+IFR1+MS
19800.000	90.000	359.944	10864.000	82.367	0.000	81.098	0.000	82.367	0.000	0.000	81.126	51.452	1.867	MWD+IFR1+MS
19900.000	90.000	359.944	10864.000	83.101	0.000	81.825	0.000	83.101	0.000	0.000	81.854	51.483	1.893	MWD+IFR1+MS
20000.000	90.000	359.944	10864.000	83.836	0.000	82.556	0.000	83.836	0.000	0.000	82.586	51.514	1.917	MWD+IFR1+MS
20100.000	90.000	359.944	10864.000	84.572	0.000	83.289	0.000	84.572	0.000	0.000	83.320	51.546	1.939	MWD+IFR1+MS
20200.000	90.000	359.944	10864.000	85.309	0.000	84.025	0.000	85.309	0.000	0.000	84.057	51.579	1.958	MWD+IFR1+MS
20300.000	90.000	359.944	10864.000	86.046	0.000	84.764	0.000	86.046	0.000	0.000	84.797	51.612	1.977	MWD+IFR1+MS
20400.000	90.000	359.944	10864.000	86.784	0.000	85.505	0.000	86.784	0.000	0.000	85.540	51.645	1.993	MWD+IFR1+MS
20500.000	90.000	359.944	10864.000	87.523	0.000	86.249	0.000	87.523	0.000	0.000	86.285	51.679	2.008	MWD+IFR1+MS
20600.000	90.000	359.944	10864.000	88.263	0.000	86.996	0.000	88.263	0.000	0.000	87.033	51.714	2.022	MWD+IFR1+MS
20700.000	90.000	359.944	10864.000	89.004	0.000	87.745	0.000	89.004	0.000	0.000	87.783	51.749	2.034	MWD+IFR1+MS
20800.000	90.000	359.944	10864.000	89.745	0.000	88.496	0.000	89.745	0.000	0.000	88.535	51.784	2.045	MWD+IFR1+MS
20900.000	90.000	359.944	10864.000	90.488	0.000	89.250	0.000	90.488	0.000	0.000	89.290	51.820	2.055	MWD+IFR1+MS
21000.000	90.000	359.944	10864.000	91.231	0.000	90.006	0.000	91.231	0.000	0.000	90.047	51.856	2.064	MWD+IFR1+MS
21100.000	90.000	359.944	10864.000	91.974	0.000	90.765	0.000	91.974	0.000	0.000	90.807	51.893	2.072	MWD+IFR1+MS
21200.000	90.000	359.944	10864.000	92.718	0.000	91.525	0.000	92.718	0.000	0.000	91.568	51.931	2.079	MWD+IFR1+MS
21300.000	90.000	359.944	10864.000	93.463	0.000	92.288	0.000	93.463	0.000	0.000	92.332	51.968	2.085	MWD+IFR1+MS
21400.000	90.000	359.944	10864.000	94.209	0.000	93.053	0.000	94.209	0.000	0.000	93.098	52.007	2.090	MWD+IFR1+MS
21500.000	90.000	359.944	10864.000	94.955	0.000	93.820	0.000	94.955	0.000	0.000	93.866	52.046	2.095	MWD+IFR1+MS
21600.000	90.000	359.944	10864.000	95.702	0.000	94.589	0.000	95.702	0.000	0.000	94.635	52.085	2.099	MWD+IFR1+MS
21700.000	90.000	359.944	10864.000	96.449	0.000	95.360	0.000	96.449	0.000	0.000	95.407	52.125	2.102	MWD+IFR1+MS
21800.000	90.000	359.944	10864.000	97.197	0.000	96.132	0.000	97.197	0.000	0.000	96.180	52.165	2.104	MWD+IFR1+MS
21900.000	90.000	359.944	10864.000	97.946	0.000	96.907	0.000	97.946	0.000	0.000	96.956	52.206	2.106	MWD+IFR1+MS
22000.000	90.000	359.944	10864.000	98.695	0.000	97.683	0.000	98.695	0.000	0.000	97.733	52.247	2.107	MWD+IFR1+MS
22034.313	90.000	359.944	10864.000	98.952	0.000	97.949	0.000	98.952	0.000	0.000	97.999	52.261	2.108	MWD+IFR1+MS
22100.000	90.000	359.944	10864.000	99.443	0.000	98.459	0.000	99.443	0.000	0.000	98.509	52.289	2.108	MWD+IFR1+MS
22133.179	90.000	359.944	10864.000	99.691	0.000	98.716	0.000	99.691	0.000	0.000	98.767	52.302	2.108	MWD+IFR1+MS

Plan Targets PLU 29-20 125H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 5	12060.49	401485.90	668626.80	7473.00	RECTANGLE
LTP 5	22034.31	411459.70	668617.00	7473.00	RECTANGLE
BHL 5	22133.70	411558.70	668616.40	7473.00	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 310941

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 310941
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated during the cementing of any string, then a CBL is required.	2/6/2024