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 / NENW /	**County or Parish/State:**
Well Number: 122H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMLC061634B	**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: 2765088

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/07/2023

Time Sundry Submitted: 02:46

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 & 1170' FWL TO: 2115' FNL & 1906' FEL of Section 29-T25S-R31E PPP1: 2647' FNL & 1907' FEL LTP: FROM: 100' FSL & 1170' FWL TO: 2565' FSL & 1891' FEL of Section 17-T25S-R31E BHL: FROM: 50' FNL & 1170' FWL TO: 2664' FSL & 1891' FEL of Section 17-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_122H_Sundry_Attachments_20231207144607.pdf

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Conditions of Approval

Additional

Sec_29_25S_31E_NMP_Sundry_2765088_Poker_Lake_Unit_29_20_BS_122H_COAs_20240126095707.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: 01/30/2024

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. NMLC061634B

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/122H

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 PURPLE SAGE/WOLFCAMP (GAS)

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 & 1170 FWL TO: 2115 FNL & 1906 FEL of Section 29-T25S-R31E
PPP1: 2647 FNL & 1907 FEL
LTP: FROM: 100 FSL & 1170 FWL TO: 2565 FSL & 1891 FEL of Section 17-T25S-R31E
BHL: FROM: 50 FNL & 1170 FWL TO: 2664 FSL & 1891 FEL of Section 17-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 01/30/2024

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: NENW / 531 FNL / 1545 FWL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.107095 / LONG: -103.803848 (TVD: 0 feet, MD: 0 feet)

PPP: SWNW / 2310 FNL / 1170 FWL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.102203 / LONG: -103.805106 (TVD: 12387 feet, MD: 13007 feet)

BHL: NWNW / 50 FNL / 1170 FWL / TWSP: 25S / RANGE: 31E / SECTION: 20 / LAT: 32.123013 / LONG: -103.804918 (TVD: 12386 feet, MD: 20577 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 29-20 BS 122H
LOCATION:	Sec 29-25S-31E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2765088** 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 860 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 6883'**

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
30-015-54398	96654	WC; Big Sinks; Bone Spring

[4] Property Code	[5] Property Name	[6] Well Number
	POKER LAKE UNIT 29-20 BS	122H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO Permian Operating, LLC.	3,363'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	29	25 S	31 E		531	NORTH	1,545	WEST	EDDY

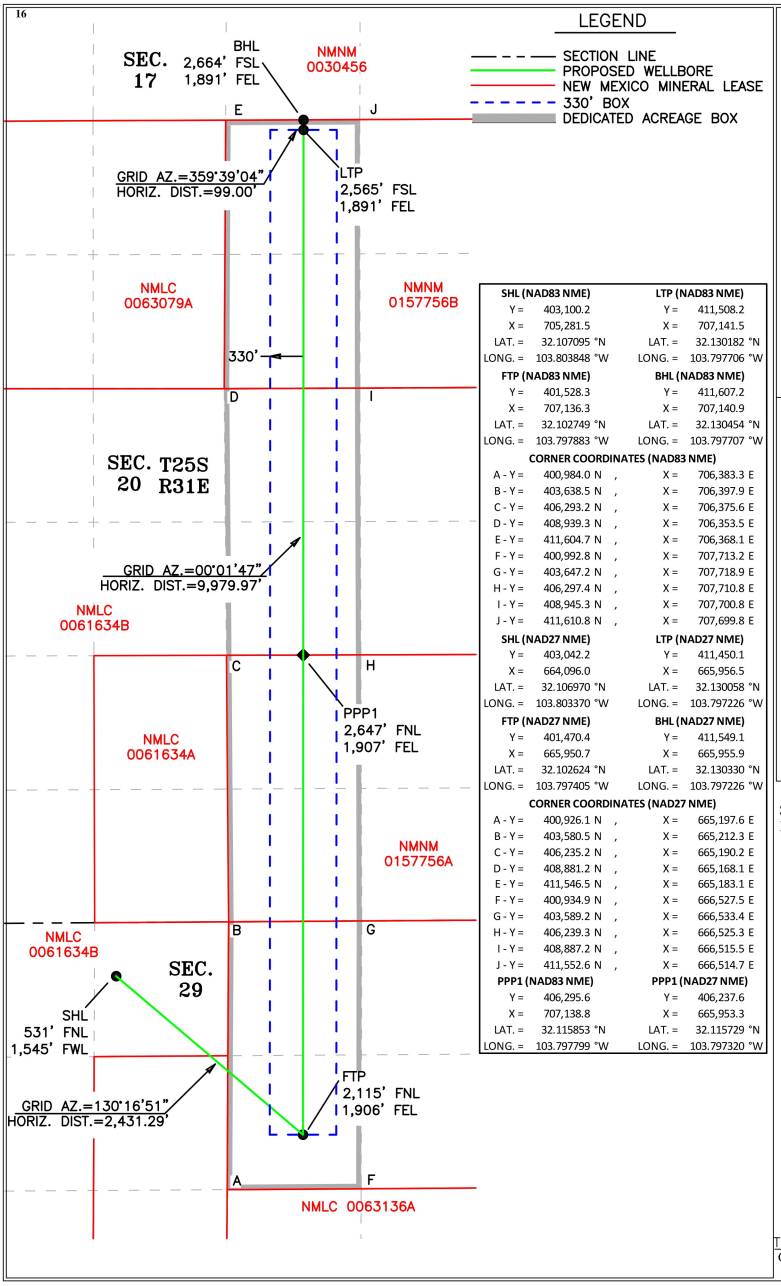
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	17	25 S	31 E		2,664	SOUTH	1,891	EAST	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.

16



SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	403,100.2	Y =	411,508.2
X =	705,281.5	X =	707,141.5
LAT. =	32.107095 °N	LAT. =	32.130182 °N
LONG. =	103.803848 °W	LONG. =	103.797706 °W
FTP (NAD83 NME)		**BHL (NAD83 NME)**	
Y =	401,528.3	Y =	411,607.2
X =	707,136.3	X =	707,140.9
LAT. =	32.102749 °N	LAT. =	32.130454 °N
LONG. =	103.797883 °W	LONG. =	103.797707 °W

CORNER COORDINATES (NAD83 NME)

A - Y =	400,984.0 N ,	X =	706,383.3 E
B - Y =	403,638.5 N ,	X =	706,397.9 E
C - Y =	406,293.2 N ,	X =	706,375.6 E
D - Y =	408,939.3 N ,	X =	706,353.5 E
E - Y =	411,604.7 N ,	X =	706,368.1 E
F - Y =	400,992.8 N ,	X =	707,713.2 E
G - Y =	403,647.2 N ,	X =	707,718.9 E
H - Y =	406,297.4 N ,	X =	707,710.8 E
I - Y =	408,945.3 N ,	X =	707,700.8 E
J - Y =	411,610.8 N ,	X =	707,699.8 E

SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	403,042.2	Y =	411,450.1
X =	664,096.0	X =	665,956.5
LAT. =	32.106970 °N	LAT. =	32.130058 °N
LONG. =	103.803370 °W	LONG. =	103.797226 °W
FTP (NAD27 NME)		**BHL (NAD27 NME)**	
Y =	401,470.4	Y =	411,549.1
X =	665,950.7	X =	665,955.9
LAT. =	32.102624 °N	LAT. =	32.130330 °N
LONG. =	103.797405 °W	LONG. =	103.797226 °W

CORNER COORDINATES (NAD27 NME)

A - Y =	400,926.1 N ,	X =	665,197.6 E
B - Y =	403,580.5 N ,	X =	665,212.3 E
C - Y =	406,235.2 N ,	X =	665,190.2 E
D - Y =	408,881.2 N ,	X =	665,168.1 E
E - Y =	411,546.5 N ,	X =	665,183.1 E
F - Y =	400,934.9 N ,	X =	666,527.5 E
G - Y =	403,589.2 N ,	X =	666,533.4 E
H - Y =	406,239.3 N ,	X =	666,525.3 E
I - Y =	408,887.2 N ,	X =	666,515.5 E
J - Y =	411,552.6 N ,	X =	666,514.7 E

PPP1 (NAD83 NME)		PPP1 (NAD27 NME)	
Y =	406,295.6	Y =	406,237.6
X =	707,138.8	X =	665,953.3
LAT. =	32.115853 °N	LAT. =	32.115729 °N
LONG. =	103.797799 °W	LONG. =	103.797320 °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 2019082885

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 BS122H
Projected TD: 21333.54' MD / 10161' TVD
SHL: 531' FNL & 1545' FWL , Section 29, T25S, R31E
BHL: 2664' FSL & 1891' FEL , Section 17, 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	760'	Water
Top of Salt	1134'	Water
Base of Salt	3996'	Water
Delaware	4199'	Water
Brushy Canyon	6833'	Water/Oil/Gas
Bone Spring	8128'	Water
1st Bone Spring	8949'	Water/Oil/Gas
2nd Bone Spring	9551'	Water/Oil/Gas
Target/Land Curve	10161'	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 @ 860' (274' above the salt) and circulating cement back to surface. The intermediate will isolate from the top of salt down to the next casing seat by setting 7.625 inch casing at 9929.99' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21333.54 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9629.99 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 860'	9.625	40	J-55	BTC	New	1.45	7.32	18.31
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.86	2.71	1.89
8.75	4000' – 9929.99'	7.625	29.7	HC L-80	Flush Joint	New	2.08	2.09	2.31
6.75	0' – 9829.99'	5.5	20	RY P-110	Semi-Premium	New	1.26	2.07	2.17
6.75	9829.99' - 21333.54'	5.5	20	RY P-110	Semi-Flush	New	1.26	2.00	2.17

- 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 +/- 860'

Lead: 180 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 +/- 9929.99'
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: 280 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 6833
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 (6833') 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 +/- 21333.54'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9629.99 feet
Tail: 800 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10129.99 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 3312 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' - 860'	12.25	FW/Native	8.4-8.9	35-40	NC
860' - 9929.99'	8.75	FW / Cut Brine / Direct Emulsion	9.5-10	30-32	NC
9929.99' - 21333.54'	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 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5548 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 122H

Measured Depth:	21333.54 ft	**Site:**	A
TVD RKB:	10161.00 ft	**Slot:**	PLU 29-20 122H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	403042.20 ft		
Easting:	664096.00 ft		
RKB:	3395.00 ft		
Ground Level:	3363.00 ft		
North Reference:	Grid		
Convergence Angle:	0.28 Deg		

Plan Sections PLU 29-20 122H

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	
2519.01	28.38	140.98	2461.69	-267.49	216.79	2.00	0.00	2.00	
7266.17	28.38	140.98	6638.31	-2020.50	1637.50	0.00	0.00	0.00	
8685.18	0.00	0.00	8000.00	-2288.00	1854.28	-2.00	0.00	2.00	
10129.99	0.00	0.00	9444.80	-2288.00	1854.28	0.00	0.00	0.00	
11254.99	90.00	0.03	10161.00	-1571.80	1854.70	8.00	0.00	8.00	FTP 7
21234.69	90.00	0.03	10161.00	8407.90	1860.50	0.00	0.00	0.00	LTP 7
21333.54	90.00	0.03	10161.00	8506.75	1860.56	0.00	0.00	0.00	BHL 7

Position Uncertainty PLU 29-20 122H

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	140.977	1199.980	4.378	0.000	5.000	-0.000	2.691	0.000	0.000	5.037	4.337	127.170	MWD+IFR1+MS
1300.000	4.000	140.977	1299.838	5.238	0.000	5.313	-0.000	2.751	0.000	0.000	5.557	4.986	99.419	MWD+IFR1+MS
1400.000	6.000	140.977	1399.452	5.990	0.000	5.633	-0.000	2.816	0.000	0.000	6.233	5.380	82.983	MWD+IFR1+MS
1500.000	8.000	140.977	1498.702	6.670	0.000	5.958	-0.000	2.889	0.000	0.000	6.908	5.712	76.823	MWD+IFR1+MS
1600.000	10.000	140.977	1597.465	7.297	0.000	6.290	-0.000	2.972	0.000	0.000	7.548	6.036	73.950	MWD+IFR1+MS
1700.000	12.000	140.977	1695.623	7.883	0.000	6.628	-0.000	3.067	0.000	0.000	8.155	6.362	72.362	MWD+IFR1+MS
1800.000	14.000	140.977	1793.055	8.434	0.000	6.975	-0.000	3.175	0.000	0.000	8.732	6.695	71.398	MWD+IFR1+MS
1900.000	16.000	140.977	1889.643	8.958	0.000	7.329	-0.000	3.298	0.000	0.000	9.285	7.036	70.790	MWD+IFR1+MS
2000.000	18.000	140.977	1985.268	9.457	0.000	7.694	-0.000	3.438	0.000	0.000	9.817	7.387	70.411	MWD+IFR1+MS
2100.000	20.000	140.977	2079.816	9.936	0.000	8.069	-0.000	3.596	0.000	0.000	10.330	7.749	70.196	MWD+IFR1+MS
2200.000	22.000	140.977	2173.169	10.397	0.000	8.456	-0.000	3.773	0.000	0.000	10.828	8.124	70.109	MWD+IFR1+MS
2300.000	24.000	140.977	2265.215	10.843	0.000	8.857	-0.000	3.969	0.000	0.000	11.313	8.513	70.133	MWD+IFR1+MS
2400.000	26.000	140.977	2355.841	11.274	0.000	9.272	-0.000	4.187	0.000	0.000	11.785	8.916	70.260	MWD+IFR1+MS
2500.000	28.000	140.977	2444.937	11.694	0.000	9.703	-0.000	4.426	0.000	0.000	12.246	9.335	70.492	MWD+IFR1+MS
2519.011	28.380	140.977	2461.693	11.731	0.000	9.783	-0.000	4.443	0.000	0.000	12.302	9.415	70.568	MWD+IFR1+MS
2600.000	28.380	140.977	2532.948	11.980	0.000	10.133	-0.000	4.557	0.000	0.000	12.527	9.766	71.110	MWD+IFR1+MS
2700.000	28.380	140.977	2620.929	12.303	0.000	10.587	-0.000	4.711	0.000	0.000	12.823	10.214	72.036	MWD+IFR1+MS
2800.000	28.380	140.977	2708.911	12.639	0.000	11.054	-0.000	4.875	0.000	0.000	13.131	10.671	73.124	MWD+IFR1+MS
2900.000	28.380	140.977	2796.892	12.986	0.000	11.528	-0.000	5.046	0.000	0.000	13.450	11.133	74.346	MWD+IFR1+MS

3000.000	28.380	140.977	2884.873	13.341	0.000	12.010	-0.000	5.224	0.000	0.000	13.778	11.600	75.722	MWD+IFR1+MS
3100.000	28.380	140.977	2972.854	13.705	0.000	12.498	-0.000	5.408	0.000	0.000	14.115	12.070	77.273	MWD+IFR1+MS
3200.000	28.380	140.977	3060.836	14.076	0.000	12.991	-0.000	5.598	0.000	0.000	14.463	12.542	79.023	MWD+IFR1+MS
3300.000	28.380	140.977	3148.817	14.455	0.000	13.490	-0.000	5.792	0.000	0.000	14.820	13.016	80.994	MWD+IFR1+MS
3400.000	28.380	140.977	3236.798	14.841	0.000	13.992	-0.000	5.991	0.000	0.000	15.187	13.488	83.206	MWD+IFR1+MS
3500.000	28.380	140.977	3324.780	15.232	0.000	14.499	-0.000	6.195	0.000	0.000	15.565	13.959	85.674	MWD+IFR1+MS
3600.000	28.380	140.977	3412.761	15.629	0.000	15.009	-0.000	6.402	0.000	0.000	15.953	14.428	88.401	MWD+IFR1+MS
3700.000	28.380	140.977	3500.742	16.032	0.000	15.523	-0.000	6.612	0.000	0.000	16.354	14.892	91.369	MWD+IFR1+MS
3800.000	28.380	140.977	3588.723	16.439	0.000	16.039	-0.000	6.826	0.000	0.000	16.767	15.351	94.540	MWD+IFR1+MS
3900.000	28.380	140.977	3676.705	16.851	0.000	16.558	-0.000	7.043	0.000	0.000	17.192	15.803	97.850	MWD+IFR1+MS
4000.000	28.380	140.977	3764.686	17.266	0.000	17.079	-0.000	7.263	0.000	0.000	17.631	16.249	101.214	MWD+IFR1+MS
4100.000	28.380	140.977	3852.667	17.686	0.000	17.602	-0.000	7.485	0.000	0.000	18.081	16.689	104.540	MWD+IFR1+MS
4200.000	28.380	140.977	3940.648	18.110	0.000	18.128	-0.000	7.709	0.000	0.000	18.543	17.121	107.742	MWD+IFR1+MS
4300.000	28.380	140.977	4028.630	18.536	0.000	18.655	-0.000	7.936	0.000	0.000	19.016	17.548	110.752	MWD+IFR1+MS
4400.000	28.380	140.977	4116.611	18.966	0.000	19.184	-0.000	8.165	0.000	0.000	19.498	17.970	113.526	MWD+IFR1+MS
4500.000	28.380	140.977	4204.592	19.399	0.000	19.714	-0.000	8.396	0.000	0.000	19.989	18.388	116.044	MWD+IFR1+MS
4600.000	28.380	140.977	4292.573	19.835	0.000	20.246	-0.000	8.628	0.000	0.000	20.488	18.802	118.307	MWD+IFR1+MS
4700.000	28.380	140.977	4380.555	20.273	0.000	20.779	-0.000	8.863	0.000	0.000	20.992	19.213	120.327	MWD+IFR1+MS
4800.000	28.380	140.977	4468.536	20.714	0.000	21.313	-0.000	9.099	0.000	0.000	21.502	19.623	122.123	MWD+IFR1+MS
4900.000	28.380	140.977	4556.517	21.156	0.000	21.849	-0.000	9.337	0.000	0.000	22.016	20.031	123.718	MWD+IFR1+MS
5000.000	28.380	140.977	4644.499	21.601	0.000	22.385	-0.000	9.576	0.000	0.000	22.535	20.439	125.136	MWD+IFR1+MS
5100.000	28.380	140.977	4732.480	22.048	0.000	22.923	-0.000	9.817	0.000	0.000	23.056	20.846	126.399	MWD+IFR1+MS
5200.000	28.380	140.977	4820.461	22.497	0.000	23.461	-0.000	10.059	0.000	0.000	23.581	21.252	127.526	MWD+IFR1+MS
5300.000	28.380	140.977	4908.442	22.947	0.000	24.000	-0.000	10.303	0.000	0.000	24.108	21.659	128.535	MWD+IFR1+MS
5400.000	28.380	140.977	4996.424	23.400	0.000	24.540	-0.000	10.548	0.000	0.000	24.637	22.066	129.441	MWD+IFR1+MS
5500.000	28.380	140.977	5084.405	23.853	0.000	25.080	-0.000	10.794	0.000	0.000	25.169	22.473	130.258	MWD+IFR1+MS
5600.000	28.380	140.977	5172.386	24.309	0.000	25.622	-0.000	11.042	0.000	0.000	25.702	22.881	130.997	MWD+IFR1+MS
5700.000	28.380	140.977	5260.367	24.765	0.000	26.164	-0.000	11.291	0.000	0.000	26.237	23.290	131.668	MWD+IFR1+MS
5800.000	28.380	140.977	5348.349	25.223	0.000	26.706	-0.000	11.541	0.000	0.000	26.773	23.698	132.279	MWD+IFR1+MS
5900.000	28.380	140.977	5436.330	25.682	0.000	27.249	-0.000	11.792	0.000	0.000	27.310	24.108	132.837	MWD+IFR1+MS
6000.000	28.380	140.977	5524.311	26.143	0.000	27.793	-0.000	12.045	0.000	0.000	27.848	24.518	133.349	MWD+IFR1+MS
6100.000	28.380	140.977	5612.292	26.604	0.000	28.337	-0.000	12.298	0.000	0.000	28.388	24.929	133.819	MWD+IFR1+MS
6200.000	28.380	140.977	5700.274	27.067	0.000	28.882	-0.000	12.553	0.000	0.000	28.928	25.341	134.252	MWD+IFR1+MS

6300.000	28.380	140.977	5788.255	27.530	0.000	29.427	-0.000	12.809	0.000	0.000	29.469	25.753	134.653	MWD+IFR1+MS
6400.000	28.380	140.977	5876.236	27.995	0.000	29.972	-0.000	13.066	0.000	0.000	30.011	26.166	-44.976	MWD+IFR1+MS
6500.000	28.380	140.977	5964.218	28.460	0.000	30.518	-0.000	13.324	0.000	0.000	30.554	26.579	-44.631	MWD+IFR1+MS
6600.000	28.380	140.977	6052.199	28.926	0.000	31.064	-0.000	13.584	0.000	0.000	31.097	26.994	-44.310	MWD+IFR1+MS
6700.000	28.380	140.977	6140.180	29.393	0.000	31.611	-0.000	13.844	0.000	0.000	31.641	27.409	-44.011	MWD+IFR1+MS
6800.000	28.380	140.977	6228.161	29.861	0.000	32.158	-0.000	14.105	0.000	0.000	32.185	27.825	-43.731	MWD+IFR1+MS
6900.000	28.380	140.977	6316.143	30.330	0.000	32.705	-0.000	14.368	0.000	0.000	32.730	28.241	-43.468	MWD+IFR1+MS
7000.000	28.380	140.977	6404.124	30.799	0.000	33.253	-0.000	14.632	0.000	0.000	33.276	28.658	-43.222	MWD+IFR1+MS
7100.000	28.380	140.977	6492.105	31.269	0.000	33.801	-0.000	14.897	0.000	0.000	33.822	29.076	-42.991	MWD+IFR1+MS
7200.000	28.380	140.977	6580.086	31.740	0.000	34.349	-0.000	15.163	0.000	0.000	34.368	29.494	-42.773	MWD+IFR1+MS
7266.174	28.380	140.977	6638.307	32.050	0.000	34.710	-0.000	15.338	0.000	0.000	34.728	29.770	-42.615	MWD+IFR1+MS
7300.000	27.704	140.977	6668.162	32.236	0.000	34.892	-0.000	15.428	0.000	0.000	34.910	29.910	-42.533	MWD+IFR1+MS
7400.000	25.704	140.977	6757.492	32.792	0.000	35.421	-0.000	15.698	0.000	0.000	35.438	30.353	-42.413	MWD+IFR1+MS
7500.000	23.704	140.977	6848.335	33.342	0.000	35.933	-0.000	15.970	0.000	0.000	35.950	30.830	-42.453	MWD+IFR1+MS
7600.000	21.704	140.977	6940.582	33.841	0.000	36.424	-0.000	16.222	0.000	0.000	36.442	31.302	-42.509	MWD+IFR1+MS
7700.000	19.704	140.977	7034.119	34.287	0.000	36.895	-0.000	16.455	0.000	0.000	36.913	31.768	-42.580	MWD+IFR1+MS
7800.000	17.704	140.977	7128.833	34.679	0.000	37.344	-0.000	16.671	0.000	0.000	37.364	32.226	-42.667	MWD+IFR1+MS
7900.000	15.704	140.977	7224.609	35.018	0.000	37.773	-0.000	16.871	0.000	0.000	37.793	32.675	-42.769	MWD+IFR1+MS
8000.000	13.704	140.977	7321.329	35.303	0.000	38.181	-0.000	17.055	0.000	0.000	38.202	33.114	-42.886	MWD+IFR1+MS
8100.000	11.704	140.977	7418.876	35.533	0.000	38.568	-0.000	17.226	0.000	0.000	38.591	33.542	-43.017	MWD+IFR1+MS
8200.000	9.704	140.977	7517.131	35.709	0.000	38.935	-0.000	17.385	0.000	0.000	38.959	33.957	-43.164	MWD+IFR1+MS
8300.000	7.704	140.977	7615.975	35.832	0.000	39.282	-0.000	17.534	0.000	0.000	39.308	34.358	-43.325	MWD+IFR1+MS
8400.000	5.704	140.977	7715.286	35.900	0.000	39.609	-0.000	17.672	0.000	0.000	39.637	34.745	-43.500	MWD+IFR1+MS
8500.000	3.704	140.977	7814.944	35.914	0.000	39.917	-0.000	17.803	0.000	0.000	39.947	35.117	-43.689	MWD+IFR1+MS
8600.000	1.704	140.977	7914.828	35.876	0.000	40.206	-0.000	17.928	0.000	0.000	40.239	35.473	-43.892	MWD+IFR1+MS
8685.185	0.000	0.000	8000.000	38.056	0.000	38.245	0.000	18.030	0.000	0.000	40.456	35.697	-43.860	MWD+IFR1+MS
8700.000	0.000	0.000	8014.815	38.093	0.000	38.279	0.000	18.047	0.000	0.000	40.490	35.734	-43.873	MWD+IFR1+MS
8800.000	0.000	0.000	8114.815	38.338	0.000	38.512	0.000	18.167	0.000	0.000	40.725	35.978	-43.949	MWD+IFR1+MS
8900.000	0.000	0.000	8214.815	38.589	0.000	38.749	0.000	18.290	0.000	0.000	40.968	36.225	-44.027	MWD+IFR1+MS
9000.000	0.000	0.000	8314.815	38.841	0.000	38.989	0.000	18.416	0.000	0.000	41.212	36.474	-44.104	MWD+IFR1+MS
9100.000	0.000	0.000	8414.815	39.095	0.000	39.230	0.000	18.545	0.000	0.000	41.458	36.724	-44.180	MWD+IFR1+MS
9200.000	0.000	0.000	8514.815	39.350	0.000	39.473	0.000	18.678	0.000	0.000	41.705	36.976	-44.255	MWD+IFR1+MS
9300.000	0.000	0.000	8614.815	39.607	0.000	39.718	0.000	18.814	0.000	0.000	41.955	37.230	-44.329	MWD+IFR1+MS

9400.000	0.000	0.000	8714.815	39.866	0.000	39.964	0.000	18.953	0.000	0.000	42.205	37.485	-44.402	MWD+IFR1+MS
9500.000	0.000	0.000	8814.815	40.126	0.000	40.212	0.000	19.096	0.000	0.000	42.458	37.742	-44.475	MWD+IFR1+MS
9600.000	0.000	0.000	8914.815	40.388	0.000	40.462	0.000	19.242	0.000	0.000	42.711	38.001	-44.547	MWD+IFR1+MS
9700.000	0.000	0.000	9014.815	40.651	0.000	40.713	0.000	19.392	0.000	0.000	42.967	38.261	-44.618	MWD+IFR1+MS
9800.000	0.000	0.000	9114.815	40.915	0.000	40.966	0.000	19.545	0.000	0.000	43.224	38.523	-44.689	MWD+IFR1+MS
9900.000	0.000	0.000	9214.815	41.181	0.000	41.221	0.000	19.702	0.000	0.000	43.482	38.787	-44.758	MWD+IFR1+MS
10000.000	0.000	0.000	9314.815	41.449	0.000	41.477	0.000	19.862	0.000	0.000	43.742	39.052	-44.827	MWD+IFR1+MS
10100.000	0.000	0.000	9414.815	41.718	0.000	41.735	0.000	20.026	0.000	0.000	44.003	39.318	-44.895	MWD+IFR1+MS
10129.988	0.000	0.000	9444.803	41.797	0.000	41.811	0.000	20.076	0.000	0.000	44.079	39.398	-44.916	MWD+IFR1+MS
10200.000	5.601	0.033	9514.704	40.995	0.000	41.981	0.000	20.191	0.000	0.000	44.288	39.603	134.674	MWD+IFR1+MS
10300.000	13.601	0.033	9613.223	39.974	0.000	42.209	0.000	20.398	0.000	0.000	44.925	40.112	130.538	MWD+IFR1+MS
10400.000	21.601	0.033	9708.464	38.717	0.000	42.411	0.000	20.751	0.000	0.000	45.707	40.586	125.865	MWD+IFR1+MS
10500.000	29.601	0.033	9798.573	37.048	0.000	42.584	0.000	21.308	0.000	0.000	46.428	40.929	122.475	MWD+IFR1+MS
10600.000	37.601	0.033	9881.797	35.122	0.000	42.729	0.000	22.112	0.000	0.000	47.044	41.171	120.178	MWD+IFR1+MS
10700.000	45.601	0.033	9956.515	33.142	0.000	42.845	0.000	23.176	0.000	0.000	47.533	41.338	118.720	MWD+IFR1+MS
10800.000	53.601	0.033	10021.273	31.354	0.000	42.935	0.000	24.481	0.000	0.000	47.887	41.449	117.876	MWD+IFR1+MS
10900.000	61.601	0.033	10074.810	30.034	0.000	43.001	0.000	25.986	0.000	0.000	48.114	41.517	117.461	MWD+IFR1+MS
11000.000	69.601	0.033	10116.086	29.445	0.000	43.045	0.000	27.636	0.000	0.000	48.230	41.557	117.316	MWD+IFR1+MS
11100.000	77.601	0.033	10144.295	29.764	0.000	43.068	0.000	29.367	0.000	0.000	48.262	41.581	117.290	MWD+IFR1+MS
11200.000	85.601	0.033	10158.890	31.018	0.000	43.072	0.000	31.117	0.000	0.000	48.239	41.601	117.227	MWD+IFR1+MS
11254.988	90.000	0.033	10161.000	31.565	-0.000	43.064	0.000	31.565	0.000	0.000	48.216	41.614	117.101	MWD+IFR1+MS
11300.000	90.000	0.033	10161.000	31.753	-0.000	43.056	0.000	31.753	0.000	0.000	48.196	41.626	116.972	MWD+IFR1+MS
11400.000	90.000	0.033	10161.000	32.132	-0.000	43.057	0.000	32.132	0.000	0.000	48.156	41.667	116.743	MWD+IFR1+MS
11500.000	90.000	0.033	10161.000	32.528	-0.000	43.077	0.000	32.528	0.000	0.000	48.120	41.724	116.575	MWD+IFR1+MS
11600.000	90.000	0.033	10161.000	32.939	-0.000	43.116	0.000	32.939	0.000	0.000	48.088	41.797	116.462	MWD+IFR1+MS
11700.000	90.000	0.033	10161.000	33.362	-0.000	43.173	0.000	33.362	0.000	0.000	48.060	41.884	116.408	MWD+IFR1+MS
11800.000	90.000	0.033	10161.000	33.799	-0.000	43.247	0.000	33.799	0.000	0.000	48.035	41.986	116.414	MWD+IFR1+MS
11900.000	90.000	0.033	10161.000	34.248	-0.000	43.339	0.000	34.248	0.000	0.000	48.013	42.102	116.485	MWD+IFR1+MS
12000.000	90.000	0.033	10161.000	34.709	-0.000	43.449	0.000	34.709	0.000	0.000	47.995	42.233	116.626	MWD+IFR1+MS
12100.000	90.000	0.033	10161.000	35.182	-0.000	43.576	0.000	35.182	0.000	0.000	47.981	42.378	116.842	MWD+IFR1+MS
12200.000	90.000	0.033	10161.000	35.665	-0.000	43.721	0.000	35.665	0.000	0.000	47.971	42.537	117.141	MWD+IFR1+MS
12300.000	90.000	0.033	10161.000	36.159	-0.000	43.883	0.000	36.159	0.000	0.000	47.965	42.710	117.533	MWD+IFR1+MS
12400.000	90.000	0.033	10161.000	36.663	-0.000	44.062	0.000	36.663	0.000	0.000	47.963	42.896	118.028	MWD+IFR1+MS

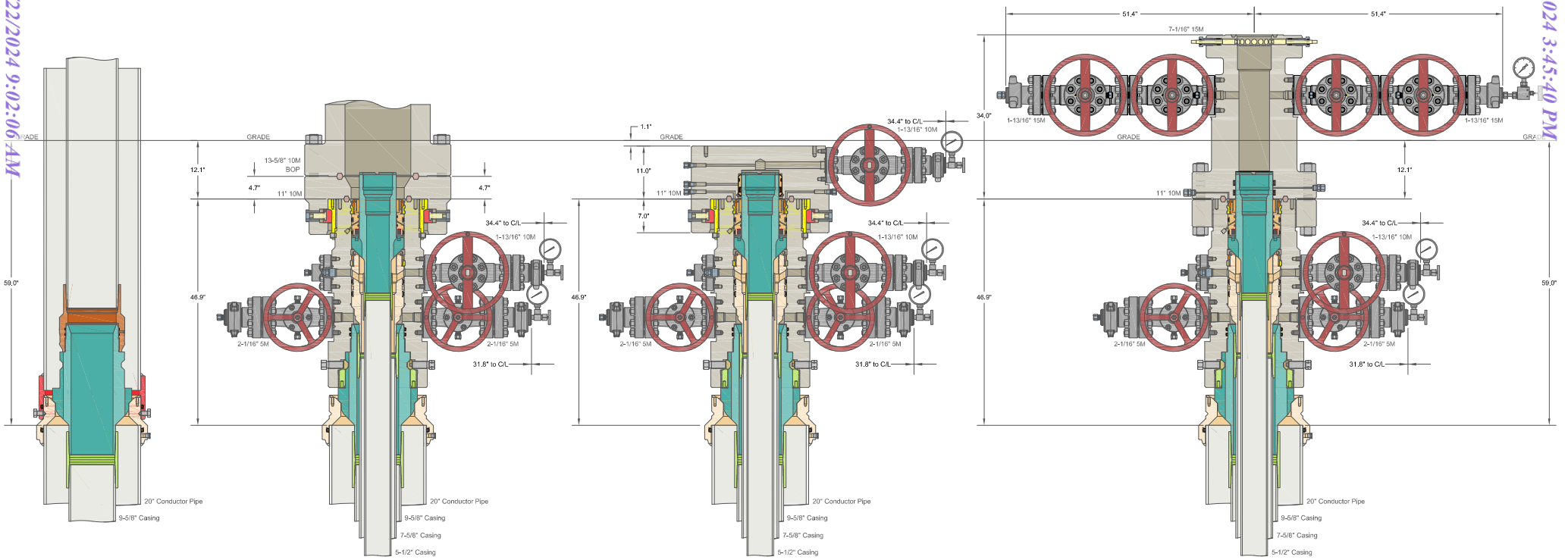
12500.000	90.000	0.033	10161.000	37.177	-0.000	44.258	0.000	37.177	0.000	0.000	47.966	43.094	118.639	MWD+IFR1+MS
12600.000	90.000	0.033	10161.000	37.701	-0.000	44.470	0.000	37.701	0.000	0.000	47.975	43.303	119.385	MWD+IFR1+MS
12700.000	90.000	0.033	10161.000	38.233	-0.000	44.699	0.000	38.233	0.000	0.000	47.990	43.523	120.285	MWD+IFR1+MS
12800.000	90.000	0.033	10161.000	38.774	-0.000	44.944	0.000	38.774	0.000	0.000	48.011	43.753	121.363	MWD+IFR1+MS
12900.000	90.000	0.033	10161.000	39.323	-0.000	45.205	0.000	39.323	0.000	0.000	48.041	43.991	122.649	MWD+IFR1+MS
13000.000	90.000	0.033	10161.000	39.880	-0.000	45.481	0.000	39.880	0.000	0.000	48.080	44.235	124.174	MWD+IFR1+MS
13100.000	90.000	0.033	10161.000	40.444	-0.000	45.773	0.000	40.444	0.000	0.000	48.132	44.483	125.975	MWD+IFR1+MS
13200.000	90.000	0.033	10161.000	41.016	-0.000	46.079	0.000	41.016	0.000	0.000	48.197	44.732	128.089	MWD+IFR1+MS
13300.000	90.000	0.033	10161.000	41.594	-0.000	46.401	0.000	41.594	0.000	0.000	48.279	44.980	130.549	MWD+IFR1+MS
13400.000	90.000	0.033	10161.000	42.180	-0.000	46.736	0.000	42.180	0.000	0.000	48.381	45.221	133.371	MWD+IFR1+MS
13500.000	90.000	0.033	10161.000	42.771	-0.000	47.086	0.000	42.771	0.000	0.000	48.508	45.453	-43.452	MWD+IFR1+MS
13600.000	90.000	0.033	10161.000	43.369	-0.000	47.450	0.000	43.369	0.000	0.000	48.663	45.671	-39.968	MWD+IFR1+MS
13700.000	90.000	0.033	10161.000	43.973	-0.000	47.827	0.000	43.973	0.000	0.000	48.850	45.870	-36.274	MWD+IFR1+MS
13800.000	90.000	0.033	10161.000	44.582	-0.000	48.217	0.000	44.582	0.000	0.000	49.071	46.049	-32.503	MWD+IFR1+MS
13900.000	90.000	0.033	10161.000	45.197	-0.000	48.620	0.000	45.197	0.000	0.000	49.328	46.206	-28.803	MWD+IFR1+MS
14000.000	90.000	0.033	10161.000	45.817	-0.000	49.035	0.000	45.817	0.000	0.000	49.619	46.341	-25.308	MWD+IFR1+MS
14100.000	90.000	0.033	10161.000	46.442	-0.000	49.463	0.000	46.442	0.000	0.000	49.943	46.455	-22.109	MWD+IFR1+MS
14200.000	90.000	0.033	10161.000	47.072	-0.000	49.903	0.000	47.072	0.000	0.000	50.297	46.552	-19.252	MWD+IFR1+MS
14300.000	90.000	0.033	10161.000	47.706	-0.000	50.354	0.000	47.706	0.000	0.000	50.678	46.634	-16.743	MWD+IFR1+MS
14400.000	90.000	0.033	10161.000	48.345	-0.000	50.816	0.000	48.345	0.000	0.000	51.083	46.704	-14.563	MWD+IFR1+MS
14500.000	90.000	0.033	10161.000	48.988	-0.000	51.290	0.000	48.988	0.000	0.000	51.509	46.764	-12.679	MWD+IFR1+MS
14600.000	90.000	0.033	10161.000	49.635	-0.000	51.774	0.000	49.635	0.000	0.000	51.955	46.815	-11.053	MWD+IFR1+MS
14700.000	90.000	0.033	10161.000	50.286	-0.000	52.268	0.000	50.286	0.000	0.000	52.417	46.860	-9.650	MWD+IFR1+MS
14800.000	90.000	0.033	10161.000	50.941	-0.000	52.773	0.000	50.941	0.000	0.000	52.895	46.900	-8.435	MWD+IFR1+MS
14900.000	90.000	0.033	10161.000	51.599	-0.000	53.287	0.000	51.599	0.000	0.000	53.388	46.935	-7.381	MWD+IFR1+MS
15000.000	90.000	0.033	10161.000	52.261	-0.000	53.811	0.000	52.261	0.000	0.000	53.894	46.968	-6.462	MWD+IFR1+MS
15100.000	90.000	0.033	10161.000	52.926	-0.000	54.344	0.000	52.926	0.000	0.000	54.412	46.997	-5.658	MWD+IFR1+MS
15200.000	90.000	0.033	10161.000	53.595	-0.000	54.886	0.000	53.595	0.000	0.000	54.941	47.025	-4.951	MWD+IFR1+MS
15300.000	90.000	0.033	10161.000	54.266	-0.000	55.437	0.000	54.266	0.000	0.000	55.482	47.050	-4.328	MWD+IFR1+MS
15400.000	90.000	0.033	10161.000	54.941	-0.000	55.996	0.000	54.941	0.000	0.000	56.032	47.075	-3.777	MWD+IFR1+MS
15500.000	90.000	0.033	10161.000	55.618	-0.000	56.563	0.000	55.618	0.000	0.000	56.592	47.098	-3.286	MWD+IFR1+MS
15600.000	90.000	0.033	10161.000	56.299	-0.000	57.138	0.000	56.299	0.000	0.000	57.161	47.121	-2.849	MWD+IFR1+MS
15700.000	90.000	0.033	10161.000	56.982	-0.000	57.721	0.000	56.982	0.000	0.000	57.739	47.143	-2.458	MWD+IFR1+MS

15800.000	90.000	0.033	10161.000	57.667	-0.000	58.312	0.000	57.667	0.000	0.000	58.326	47.164	-2.107	MWD+IFR1+MS
15900.000	90.000	0.033	10161.000	58.355	-0.000	58.910	0.000	58.355	0.000	0.000	58.920	47.185	-1.792	MWD+IFR1+MS
16000.000	90.000	0.033	10161.000	59.046	-0.000	59.514	0.000	59.046	0.000	0.000	59.522	47.206	-1.507	MWD+IFR1+MS
16100.000	90.000	0.033	10161.000	59.739	-0.000	60.126	0.000	59.739	0.000	0.000	60.132	47.227	-1.249	MWD+IFR1+MS
16200.000	90.000	0.033	10161.000	60.434	-0.000	60.744	0.000	60.434	0.000	0.000	60.748	47.247	-1.015	MWD+IFR1+MS
16300.000	90.000	0.033	10161.000	61.131	-0.000	61.369	0.000	61.131	0.000	0.000	61.371	47.268	-0.803	MWD+IFR1+MS
16400.000	90.000	0.033	10161.000	61.830	-0.000	62.000	0.000	61.830	0.000	0.000	62.001	47.289	-0.609	MWD+IFR1+MS
16500.000	90.000	0.033	10161.000	62.531	-0.000	62.637	0.000	62.531	0.000	0.000	62.637	47.310	-0.433	MWD+IFR1+MS
16600.000	90.000	0.033	10161.000	63.235	-0.000	63.279	0.000	63.235	0.000	0.000	63.280	47.331	-0.272	MWD+IFR1+MS
16700.000	90.000	0.033	10161.000	63.940	-0.000	63.928	0.000	63.940	0.000	0.000	63.928	47.352	-0.124	MWD+IFR1+MS
16800.000	90.000	0.033	10161.000	64.647	-0.000	64.582	0.000	64.647	0.000	0.000	64.582	47.373	0.011	MWD+IFR1+MS
16900.000	90.000	0.033	10161.000	65.356	-0.000	65.241	0.000	65.356	0.000	0.000	65.241	47.395	0.135	MWD+IFR1+MS
17000.000	90.000	0.033	10161.000	66.066	-0.000	65.905	0.000	66.066	0.000	0.000	65.906	47.417	0.249	MWD+IFR1+MS
17100.000	90.000	0.033	10161.000	66.779	-0.000	66.575	0.000	66.779	0.000	0.000	66.575	47.440	0.354	MWD+IFR1+MS
17200.000	90.000	0.033	10161.000	67.492	-0.000	67.249	0.000	67.492	0.000	0.000	67.250	47.462	0.451	MWD+IFR1+MS
17300.000	90.000	0.033	10161.000	68.208	-0.000	67.928	0.000	68.208	0.000	0.000	67.930	47.486	0.540	MWD+IFR1+MS
17400.000	90.000	0.033	10161.000	68.925	-0.000	68.612	0.000	68.925	0.000	0.000	68.614	47.509	0.622	MWD+IFR1+MS
17500.000	90.000	0.033	10161.000	69.643	-0.000	69.300	0.000	69.643	0.000	0.000	69.303	47.533	0.698	MWD+IFR1+MS
17600.000	90.000	0.033	10161.000	70.363	-0.000	69.993	0.000	70.363	0.000	0.000	69.996	47.557	0.768	MWD+IFR1+MS
17700.000	90.000	0.033	10161.000	71.084	-0.000	70.689	0.000	71.084	0.000	0.000	70.693	47.582	0.833	MWD+IFR1+MS
17800.000	90.000	0.033	10161.000	71.806	-0.000	71.390	0.000	71.806	0.000	0.000	71.395	47.607	0.893	MWD+IFR1+MS
17900.000	90.000	0.033	10161.000	72.530	-0.000	72.095	0.000	72.530	0.000	0.000	72.100	47.632	0.948	MWD+IFR1+MS
18000.000	90.000	0.033	10161.000	73.255	-0.000	72.803	0.000	73.255	0.000	0.000	72.809	47.658	1.000	MWD+IFR1+MS
18100.000	90.000	0.033	10161.000	73.981	-0.000	73.516	0.000	73.981	0.000	0.000	73.522	47.684	1.047	MWD+IFR1+MS
18200.000	90.000	0.033	10161.000	74.709	-0.000	74.231	0.000	74.709	0.000	0.000	74.239	47.711	1.091	MWD+IFR1+MS
18300.000	90.000	0.033	10161.000	75.437	-0.000	74.951	0.000	75.437	0.000	0.000	74.959	47.738	1.132	MWD+IFR1+MS
18400.000	90.000	0.033	10161.000	76.167	-0.000	75.674	0.000	76.167	0.000	0.000	75.683	47.766	1.170	MWD+IFR1+MS
18500.000	90.000	0.033	10161.000	76.898	-0.000	76.400	0.000	76.898	0.000	0.000	76.409	47.794	1.205	MWD+IFR1+MS
18600.000	90.000	0.033	10161.000	77.630	-0.000	77.129	0.000	77.630	0.000	0.000	77.140	47.822	1.238	MWD+IFR1+MS
18700.000	90.000	0.033	10161.000	78.362	-0.000	77.862	0.000	78.362	0.000	0.000	77.873	47.851	1.268	MWD+IFR1+MS
18800.000	90.000	0.033	10161.000	79.096	-0.000	78.597	0.000	79.096	0.000	0.000	78.609	47.881	1.296	MWD+IFR1+MS
18900.000	90.000	0.033	10161.000	79.831	-0.000	79.336	0.000	79.831	0.000	0.000	79.348	47.911	1.322	MWD+IFR1+MS
19000.000	90.000	0.033	10161.000	80.567	-0.000	80.077	0.000	80.567	0.000	0.000	80.090	47.941	1.346	MWD+IFR1+MS

19100.000	90.000	0.033	10161.000	81.304	-0.000	80.821	0.000	81.304	0.000	0.000	80.835	47.972	1.369	MWD+IFR1+MS
19200.000	90.000	0.033	10161.000	82.041	-0.000	81.568	0.000	82.041	0.000	0.000	81.583	48.003	1.389	MWD+IFR1+MS
19300.000	90.000	0.033	10161.000	82.780	-0.000	82.318	0.000	82.780	0.000	0.000	82.333	48.035	1.408	MWD+IFR1+MS
19400.000	90.000	0.033	10161.000	83.519	-0.000	83.070	0.000	83.519	0.000	0.000	83.086	48.067	1.426	MWD+IFR1+MS
19500.000	90.000	0.033	10161.000	84.259	-0.000	83.824	0.000	84.259	0.000	0.000	83.841	48.100	1.442	MWD+IFR1+MS
19600.000	90.000	0.033	10161.000	85.000	-0.000	84.581	0.000	85.000	0.000	0.000	84.599	48.133	1.457	MWD+IFR1+MS
19700.000	90.000	0.033	10161.000	85.742	-0.000	85.341	0.000	85.742	0.000	0.000	85.359	48.166	1.471	MWD+IFR1+MS
19800.000	90.000	0.033	10161.000	86.484	-0.000	86.103	0.000	86.484	0.000	0.000	86.122	48.200	1.483	MWD+IFR1+MS
19900.000	90.000	0.033	10161.000	87.227	-0.000	86.867	0.000	87.227	0.000	0.000	86.886	48.235	1.495	MWD+IFR1+MS
20000.000	90.000	0.033	10161.000	87.971	-0.000	87.633	0.000	87.971	0.000	0.000	87.653	48.270	1.506	MWD+IFR1+MS
20100.000	90.000	0.033	10161.000	88.716	-0.000	88.401	0.000	88.716	0.000	0.000	88.422	48.305	1.515	MWD+IFR1+MS
20200.000	90.000	0.033	10161.000	89.461	-0.000	89.172	0.000	89.461	0.000	0.000	89.193	48.341	1.524	MWD+IFR1+MS
20300.000	90.000	0.033	10161.000	90.207	-0.000	89.944	0.000	90.207	0.000	0.000	89.966	48.377	1.532	MWD+IFR1+MS
20400.000	90.000	0.033	10161.000	90.954	-0.000	90.719	0.000	90.954	0.000	0.000	90.741	48.414	1.540	MWD+IFR1+MS
20500.000	90.000	0.033	10161.000	91.701	-0.000	91.495	0.000	91.701	0.000	0.000	91.518	48.451	1.546	MWD+IFR1+MS
20600.000	90.000	0.033	10161.000	92.449	-0.000	92.273	0.000	92.449	0.000	0.000	92.297	48.489	1.552	MWD+IFR1+MS
20700.000	90.000	0.033	10161.000	93.197	-0.000	93.053	0.000	93.197	0.000	0.000	93.077	48.527	1.557	MWD+IFR1+MS
20800.000	90.000	0.033	10161.000	93.946	-0.000	93.835	0.000	93.946	0.000	0.000	93.860	48.566	1.562	MWD+IFR1+MS
20900.000	90.000	0.033	10161.000	94.696	-0.000	94.619	0.000	94.696	0.000	0.000	94.644	48.605	1.566	MWD+IFR1+MS
21000.000	90.000	0.033	10161.000	95.446	-0.000	95.404	0.000	95.446	0.000	0.000	95.430	48.644	1.570	MWD+IFR1+MS
21100.000	90.000	0.033	10161.000	96.197	-0.000	96.191	0.000	96.197	0.000	0.000	96.217	48.684	1.573	MWD+IFR1+MS
21200.000	90.000	0.033	10161.000	96.948	-0.000	96.980	0.000	96.948	0.000	0.000	97.006	48.725	1.576	MWD+IFR1+MS
21234.689	90.000	0.033	10161.000	97.209	-0.000	97.253	0.000	97.209	0.000	0.000	97.279	48.739	1.577	MWD+IFR1+MS
21300.000	90.000	0.033	10161.000	97.699	-0.000	97.767	0.000	97.699	0.000	0.000	97.794	48.766	1.578	MWD+IFR1+MS
21333.544	90.000	0.033	10161.000	97.950	-0.000	98.032	0.000	97.950	0.000	0.000	98.058	48.780	1.579	MWD+IFR1+MS

Plan Targets PLU 29-20 122H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 7	11254.97	401470.40	665950.70	6766.00	RECTANGLE
LTP 7	21234.69	411450.10	665956.50	6766.00	RECTANGLE
BHL 7	21334.22	411549.10	665955.90	6766.00	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

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 310988
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	2/22/2024