

Well Name: POKER LAKE UNIT 17 TWR	Well Location: T24S / R31E / SEC 20 / NENE /	County or Parish/State:
Well Number: 507H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC061705B	Unit or CA Name:	Unit or CA Number: NMNM71016X
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2760411

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 11/08/2023

Time Sundry Submitted: 07:35

Date proposed operation will begin: 11/27/2023

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make changes to the Approved APD as follows: Surface Hole Location Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. SHL: FROM: 620' FNL & 1098' FWL TO: 620' FNL & 1618' FEL of Section 20-T24S-R31E FTP: FROM: 100' FNL & 440' FEL TO: 100' FNL & 2460' FEL of Section 20-T24S-R31E LTP: FROM: 100' FSL & 440' FEL TO: 100' FSL & 2460' FEL of Section 29-T24S-R31E BHL: FROM: 50' FSL & 440' FEL TO: 50' FSL & 2460' FEL of Section 29-T24S-R31E Casing/Cement design: weight from 23# to 20#. Attachments: C102 Drilling Program Directional Plan MBS

NOI Attachments

Procedure Description

PLU_17_Twin_Wells_Ranch_507H_Sundry_Attachments_20231108072621.pdf

Well Name: POKER LAKE UNIT 17 TWR	Well Location: T24S / R31E / SEC 20 / NENE /	County or Parish/State:
Well Number: 507H	Type of Well: OIL WELL	Allottee or Tribe Name:
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Conditions of Approval

Additional

Sec_20_24S_30E_NMP_Sundry_2760411_Poker_Lake_Unit_17_TWR_507H_COAs_20231211143822.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: RANELL (RUSTY) KLEIN	Signed on: NOV 08, 2023 07:35 AM
Name: XTO PERMIAN OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5	
City: MIDLAND	State: TX
Phone: (432) 620-6700	
Email address: RANELL.KLEIN@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 12/28/2023
Signature: Chris Walls	

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMLC061705B**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator **XTO PERMIAN OPERATING LLC**3a. Address **6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND,** 3b. Phone No. (include area code)
(432) 683-22774. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 20/T24S/R31E/NMP7. If Unit of CA/Agreement, Name and/or No.
NMNM71016X8. Well Name and No. **POKER LAKE UNIT 17 TWR/507H**

9. API Well No.

10. Field and Pool or Exploratory Area
WILDCAT/Bone Spring11. Country or Parish, State
EDDY/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

SHL: FROM: 620 FNL & 1098 FWL TO: 620 FNL & 1618 FEL of Section 20-T24S-R31E

FTP: FROM: 100 FNL & 440 FEL TO: 100 FNL & 2460 FEL of Section 20-T24S-R31E

LTP: FROM: 100 FSL & 440 FEL TO: 100 FSL & 2460 FEL of Section 29-T24S-R31E

BHL: FROM: 50 FSL & 440 FEL TO: 50 FSL & 2460 FEL of Section 29-T24S-R31E

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

Attachments:

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
RANELL (RUSTY) KLEIN / Ph: (432) 620-6700Title **Regulatory Analyst**(Electronic Submission)
SignatureDate **11/08/2023****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / ApprovedTitle **Petroleum Engineer**Date **12/28/2023**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **CARLSBAD**

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

C102
Drilling Program
Directional Plan
MBS

Location of Well

0. SHL: NENE / 620 FNL / 1098 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.208377 / LONG: -103.794843 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 330 FNL / 440 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.200212 / LONG: -103.792701 (TVD: 10312 feet, MD: 13500 feet)
PPP: NENE / 100 FNL / 440 FEL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.20981 / LONG: -103.792717 (TVD: 10312 feet, MD: 10800 feet)
PPP: NENE / 330 FNL / 440 FEL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.190411 / LONG: -103.792685 (TVD: 10312 feet, MD: 16100 feet)
BHL: SESE / 50 FSL / 440 FWL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.181184 / LONG: -103.792677 (TVD: 10312 feet, MD: 21158 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Poker Lake Unit 17 TWR 507H
LOCATION:	Sec 20-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Engineering changes addressed through **Sundry 2760411** on 12/11/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

H₂S	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
Potash / WIPP	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
Cave / Karst	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
Cementing	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
Special Req	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Variance	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
Variance	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> Batch APD / Sundry				

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately 731 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

- completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

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

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 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.

If cement does not reach surface, the next casing string must come to surface.

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
- Cement should tie-back at least **300 feet** (cement tieback increased due to operator not meeting 0.422" clearance requirement per 43 CFR 3172) into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

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

Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

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

Offline Cementing

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV**
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.

- Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

APD ID
10400091037

WELL LOCATION AND ACREAGE DEDICATION PLAT

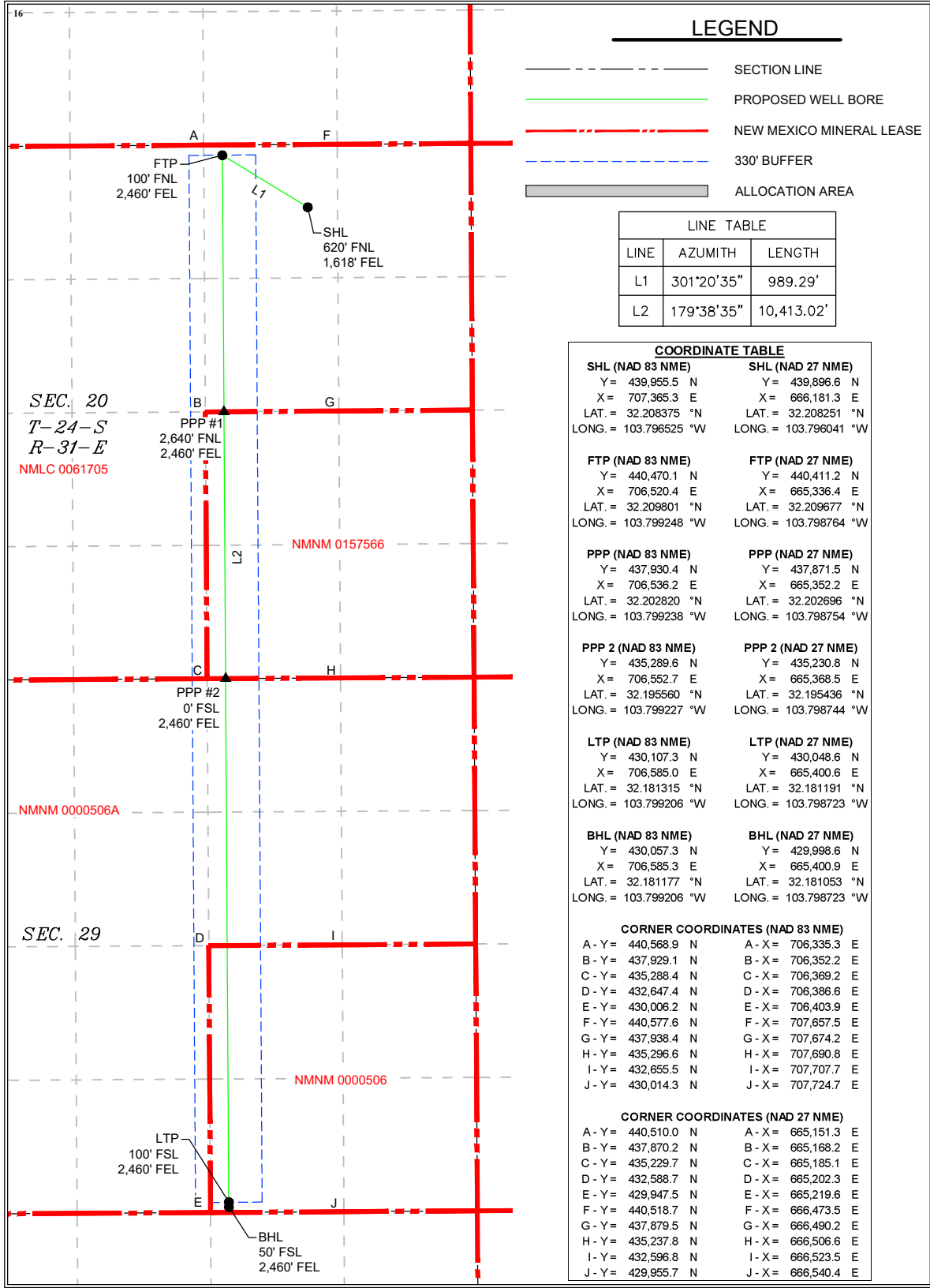
¹ API Number 30-015-	² Pool Code 96403	³ Pool Name Wildcat; Bone Spring
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 17 TWR	⁶ Well Number 507H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,519'

¹⁰ Surface Location									
UL or lot no. B	Section 20	Township 24S	Range 31E	Lot Idn	Feet from the 620	North/South line NORTH	Feet from the 1,618	East/West line EAST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. O	Section 29	Township 24S	Range 31E	Lot Idn	Feet from the 50	North/South line SOUTH	Feet from the 2,460	East/West line EAST	County EDDY

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

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



¹⁷ OPERATOR
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature

Date

Jean A. Cooper

Printed Name

jean.cooper@exxonmobil.com

E-mail Address

¹⁸ SURVEYOR
CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

09-26-2023

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

KC

618.013003.12-16

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

XTO Energy Inc.

PLU 17 Twin Wells Ranch 507H

Projected TD: 21876.18' MD / 10837' TVD

SHL: 620' FNL & 1618' FWL , Section 20, T24S, R31E

BHL: 50' FSL & 2460' FWL , Section 29, T24S, R31E

Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	631'	Water
Top of Salt	980'	Water
Base of Salt	4144'	Water
Delaware	4359'	Water
Brushy Canyon	6883'	Water/Oil/Gas
Bone Spring	8191'	Water
1st Bone Spring	9192'	Water/Oil/Gas
2nd Bone Spring	9973'	Water/Oil/Gas
3rd Bone Spring	10687'	Water/Oil/Gas
Target/Land Curve	10837'	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 @ 731' (249' 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 10138.38' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21876.18 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9838.38 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 731'	9.625	40	J-55	BTC	New	1.26	8.61	21.55
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.03	2.52	1.85
8.75	4000' – 10138.38'	7.625	29.7	HC L-80	Flush Joint	New	1.48	1.81	2.23
6.75	0' – 10038.38'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.70	2.12
6.75	10038.38' - 21876.18'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.58	2.12

- 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 +/- 731'

Lead: 140 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)
 Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10138.38'

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: 300 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 6883
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)
 Tail: 780 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Top of Cement: 0
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6883') 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 +/- 21876.18'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9838.38 feet
 Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 10338.38 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 4660 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

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

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

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

hole on each of the wells.

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

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 731'	12.25	FW/Native	8.4-8.9	35-40	NC
731' - 10138.38'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
10138.38' - 21876.18'	6.75	OBM	12.5-13	50-60	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 9-5/8" surface casing with brine solution. A 9.7 ppg - 10.2 ppg cut brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 9.625 casing.

8. Logging, Coring and Testing Program

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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 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 7044 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 - 507H

Measured Depth: 21876.18 ft

TVD RKB: 10837.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 439896.60 ft

Easting: 666181.30 ft

RKB: 3551.00 ft

Ground Level: 3519.00 ft

North Reference: Grid

Convergence Angle: 0.29 Deg

Site: A

Slot: 507H

Plan Sections 507H

Measured			TVD			Build	Turn	Dogleg		
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate		
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00		
2080.23	17.60	325.39	2066.44	110.43	-76.20	2.00	0.00	2.00		
6137.35	17.60	325.39	5933.56	1120.36	-773.13	0.00	0.00	0.00		
7017.58	0.00	0.00	6800.00	1230.78	-849.34	-2.00	0.00	2.00		
10338.38	0.00	0.00	10120.80	1230.78	-849.34	0.00	0.00	0.00		
11463.38	90.00	179.65	10837.00	514.60	-844.90	8.00	0.00	8.00	FTP 1	
21826.18	90.00	179.65	10837.00	-9848.00	-780.71	0.00	0.00	0.00	LTP 1	
21876.18	90.00	179.65	10837.00	-9898.00	-780.40	0.00	0.00	0.00	BHL 1	

Position Uncertainty 507H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool
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Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.326	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.348	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.375	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.408	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.446	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.488	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.534	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.585	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.638	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.779	0.000	4.589	0.000	2.695	0.000	0.000	5.119	4.207	128.954	MWD+IFR1+MS
1300.000	2.000	325.391	1299.980	4.802	0.000	5.399	0.000	2.755	0.000	0.000	5.529	4.654	121.846	MWD+IFR1+MS
1400.000	4.000	325.391	1399.838	5.641	0.000	5.732	0.000	2.819	0.000	0.000	6.094	5.257	103.224	MWD+IFR1+MS
1500.000	6.000	325.391	1499.452	6.384	0.000	6.067	0.000	2.887	0.000	0.000	6.740	5.688	91.094	MWD+IFR1+MS
1600.000	8.000	325.391	1598.702	7.059	0.000	6.405	0.000	2.962	0.000	0.000	7.389	6.057	84.852	MWD+IFR1+MS
1700.000	10.000	325.391	1697.465	7.683	0.000	6.745	0.000	3.047	0.000	0.000	8.013	6.406	81.409	MWD+IFR1+MS
1800.000	12.000	325.391	1795.623	8.267	0.000	7.088	0.000	3.143	0.000	0.000	8.610	6.747	79.315	MWD+IFR1+MS
1900.000	14.000	325.391	1893.055	8.817	0.000	7.433	0.000	3.253	0.000	0.000	9.182	7.088	77.949	MWD+IFR1+MS
2000.000	16.000	325.391	1989.643	9.339	0.000	7.782	0.000	3.376	0.000	0.000	9.732	7.429	77.017	MWD+IFR1+MS
2080.227	17.605	325.391	2066.442	9.662	0.000	8.059	0.000	3.467	0.000	0.000	10.086	7.705	76.683	MWD+IFR1+MS
2100.000	17.605	325.391	2085.289	9.718	0.000	8.125	0.000	3.480	0.000	0.000	10.142	7.772	76.695	MWD+IFR1+MS
2200.000	17.605	325.391	2180.606	10.008	0.000	8.470	0.000	3.574	0.000	0.000	10.422	8.120	77.017	MWD+IFR1+MS
2300.000	17.605	325.391	2275.923	10.317	0.000	8.833	0.000	3.676	0.000	0.000	10.727	8.477	77.568	MWD+IFR1+MS
2400.000	17.605	325.391	2371.239	10.634	0.000	9.200	0.000	3.782	0.000	0.000	11.038	8.838	78.115	MWD+IFR1+MS
2500.000	17.605	325.391	2466.556	10.958	0.000	9.570	0.000	3.892	0.000	0.000	11.356	9.202	78.659	MWD+IFR1+MS
2600.000	17.605	325.391	2561.873	11.288	0.000	9.943	0.000	4.005	0.000	0.000	11.679	9.568	79.199	MWD+IFR1+MS
2700.000	17.605	325.391	2657.189	11.623	0.000	10.319	0.000	4.122	0.000	0.000	12.008	9.937	79.736	MWD+IFR1+MS
2800.000	17.605	325.391	2752.506	11.964	0.000	10.696	0.000	4.242	0.000	0.000	12.341	10.309	80.269	MWD+IFR1+MS
2900.000	17.605	325.391	2847.823	12.310	0.000	11.076	0.000	4.365	0.000	0.000	12.678	10.682	80.797	MWD+IFR1+MS

3000.000	17.605	325.391	2943.139	12.659	0.000	11.458	0.000	4.491	0.000	0.000	13.020	11.057	81.321	MWD+IFR1+MS
3100.000	17.605	325.391	3038.456	13.013	0.000	11.842	0.000	4.619	0.000	0.000	13.365	11.433	81.841	MWD+IFR1+MS
3200.000	17.605	325.391	3133.773	13.371	0.000	12.227	0.000	4.750	0.000	0.000	13.714	11.811	82.355	MWD+IFR1+MS
3300.000	17.605	325.391	3229.089	13.732	0.000	12.613	0.000	4.882	0.000	0.000	14.066	12.190	82.865	MWD+IFR1+MS
3400.000	17.605	325.391	3324.406	14.096	0.000	13.001	0.000	5.018	0.000	0.000	14.422	12.571	83.369	MWD+IFR1+MS
3500.000	17.605	325.391	3419.723	14.463	0.000	13.390	0.000	5.155	0.000	0.000	14.779	12.952	83.868	MWD+IFR1+MS
3600.000	17.605	325.391	3515.039	14.832	0.000	13.779	0.000	5.294	0.000	0.000	15.140	13.335	84.361	MWD+IFR1+MS
3700.000	17.605	325.391	3610.356	15.205	0.000	14.170	0.000	5.435	0.000	0.000	15.503	13.718	84.848	MWD+IFR1+MS
3800.000	17.605	325.391	3705.673	15.579	0.000	14.562	0.000	5.578	0.000	0.000	15.868	14.102	85.329	MWD+IFR1+MS
3900.000	17.605	325.391	3800.989	15.956	0.000	14.954	0.000	5.723	0.000	0.000	16.235	14.487	85.804	MWD+IFR1+MS
4000.000	17.605	325.391	3896.306	16.334	0.000	15.348	0.000	5.869	0.000	0.000	16.604	14.872	86.273	MWD+IFR1+MS
4100.000	17.605	325.391	3991.623	16.715	0.000	15.742	0.000	6.017	0.000	0.000	16.975	15.259	86.735	MWD+IFR1+MS
4200.000	17.605	325.391	4086.939	17.097	0.000	16.136	0.000	6.167	0.000	0.000	17.348	15.645	87.191	MWD+IFR1+MS
4300.000	17.605	325.391	4182.256	17.481	0.000	16.531	0.000	6.318	0.000	0.000	17.723	16.033	87.641	MWD+IFR1+MS
4400.000	17.605	325.391	4277.573	17.866	0.000	16.927	0.000	6.471	0.000	0.000	18.099	16.420	88.083	MWD+IFR1+MS
4500.000	17.605	325.391	4372.889	18.253	0.000	17.323	0.000	6.625	0.000	0.000	18.476	16.809	88.519	MWD+IFR1+MS
4600.000	17.605	325.391	4468.206	18.641	0.000	17.720	0.000	6.781	0.000	0.000	18.855	17.197	88.948	MWD+IFR1+MS
4700.000	17.605	325.391	4563.523	19.030	0.000	18.117	0.000	6.939	0.000	0.000	19.235	17.587	89.371	MWD+IFR1+MS
4800.000	17.605	325.391	4658.839	19.421	0.000	18.515	0.000	7.098	0.000	0.000	19.616	17.976	89.786	MWD+IFR1+MS
4900.000	17.605	325.391	4754.156	19.813	0.000	18.913	0.000	7.258	0.000	0.000	19.998	18.366	90.195	MWD+IFR1+MS
5000.000	17.605	325.391	4849.473	20.205	0.000	19.311	0.000	7.420	0.000	0.000	20.381	18.756	90.596	MWD+IFR1+MS
5100.000	17.605	325.391	4944.789	20.599	0.000	19.710	0.000	7.584	0.000	0.000	20.766	19.147	90.991	MWD+IFR1+MS
5200.000	17.605	325.391	5040.106	20.994	0.000	20.109	0.000	7.749	0.000	0.000	21.151	19.538	91.379	MWD+IFR1+MS
5300.000	17.605	325.391	5135.423	21.389	0.000	20.509	0.000	7.915	0.000	0.000	21.537	19.929	91.759	MWD+IFR1+MS
5400.000	17.605	325.391	5230.740	21.786	0.000	20.908	0.000	8.083	0.000	0.000	21.925	20.320	92.133	MWD+IFR1+MS
5500.000	17.605	325.391	5326.056	22.183	0.000	21.308	0.000	8.253	0.000	0.000	22.313	20.712	92.500	MWD+IFR1+MS
5600.000	17.605	325.391	5421.373	22.581	0.000	21.709	0.000	8.424	0.000	0.000	22.701	21.104	92.859	MWD+IFR1+MS
5700.000	17.605	325.391	5516.690	22.979	0.000	22.109	0.000	8.597	0.000	0.000	23.091	21.496	93.212	MWD+IFR1+MS
5800.000	17.605	325.391	5612.006	23.379	0.000	22.510	0.000	8.771	0.000	0.000	23.481	21.888	93.558	MWD+IFR1+MS
5900.000	17.605	325.391	5707.323	23.778	0.000	22.911	0.000	8.947	0.000	0.000	23.872	22.281	93.897	MWD+IFR1+MS
6000.000	17.605	325.391	5802.640	24.179	0.000	23.312	0.000	9.124	0.000	0.000	24.263	22.674	94.230	MWD+IFR1+MS
6100.000	17.605	325.391	5897.956	24.580	0.000	23.713	0.000	9.303	0.000	0.000	24.655	23.067	94.555	MWD+IFR1+MS
6137.351	17.605	325.391	5933.558	24.728	0.000	23.861	0.000	9.370	0.000	0.000	24.798	23.214	94.653	MWD+IFR1+MS

6200.000	16.352	325.391	5993.475	25.009	0.000	24.107	0.000	9.483	0.000	0.000	25.039	23.459	94.743	MWD+IFR1+MS
6300.000	14.352	325.391	6089.902	25.491	0.000	24.497	0.000	9.670	0.000	0.000	25.469	23.857	93.975	MWD+IFR1+MS
6400.000	12.352	325.391	6187.195	25.969	0.000	24.880	0.000	9.852	0.000	0.000	25.924	24.252	92.741	MWD+IFR1+MS
6500.000	10.352	325.391	6285.233	26.405	0.000	25.256	0.000	10.022	0.000	0.000	26.371	24.638	91.570	MWD+IFR1+MS
6600.000	8.352	325.391	6383.899	26.800	0.000	25.622	0.000	10.182	0.000	0.000	26.810	25.015	90.469	MWD+IFR1+MS
6700.000	6.352	325.391	6483.072	27.153	0.000	25.978	0.000	10.332	0.000	0.000	27.240	25.381	89.444	MWD+IFR1+MS
6800.000	4.352	325.391	6582.631	27.465	0.000	26.326	0.000	10.475	0.000	0.000	27.661	25.737	88.501	MWD+IFR1+MS
6900.000	2.352	325.391	6682.455	27.734	0.000	26.664	0.000	10.611	0.000	0.000	28.072	26.083	87.641	MWD+IFR1+MS
7000.000	0.352	325.391	6782.422	27.961	0.000	26.993	0.000	10.742	0.000	0.000	28.471	26.418	86.863	MWD+IFR1+MS
7017.578	0.000	0.000	6800.000	28.519	0.000	26.480	0.000	10.764	0.000	0.000	28.525	26.474	86.876	MWD+IFR1+MS
7100.000	0.000	0.000	6882.422	28.769	0.000	26.744	0.000	10.871	0.000	0.000	28.775	26.738	87.038	MWD+IFR1+MS
7200.000	0.000	0.000	6982.422	29.076	0.000	27.069	0.000	11.002	0.000	0.000	29.080	27.064	87.327	MWD+IFR1+MS
7300.000	0.000	0.000	7082.422	29.385	0.000	27.396	0.000	11.136	0.000	0.000	29.388	27.392	87.646	MWD+IFR1+MS
7400.000	0.000	0.000	7182.422	29.695	0.000	27.723	0.000	11.274	0.000	0.000	29.697	27.721	87.963	MWD+IFR1+MS
7500.000	0.000	0.000	7282.422	30.006	0.000	28.052	0.000	11.414	0.000	0.000	30.008	28.050	88.280	MWD+IFR1+MS
7600.000	0.000	0.000	7382.422	30.318	0.000	28.381	0.000	11.557	0.000	0.000	30.319	28.379	88.595	MWD+IFR1+MS
7700.000	0.000	0.000	7482.422	30.631	0.000	28.710	0.000	11.704	0.000	0.000	30.632	28.710	88.910	MWD+IFR1+MS
7800.000	0.000	0.000	7582.422	30.946	0.000	29.041	0.000	11.853	0.000	0.000	30.946	29.040	89.223	MWD+IFR1+MS
7900.000	0.000	0.000	7682.422	31.261	0.000	29.372	0.000	12.006	0.000	0.000	31.261	29.372	89.535	MWD+IFR1+MS
8000.000	0.000	0.000	7782.422	31.577	0.000	29.704	0.000	12.161	0.000	0.000	31.577	29.704	89.846	MWD+IFR1+MS
8100.000	0.000	0.000	7882.422	31.894	0.000	30.036	0.000	12.320	0.000	0.000	31.894	30.036	90.156	MWD+IFR1+MS
8200.000	0.000	0.000	7982.422	32.211	0.000	30.369	0.000	12.482	0.000	0.000	32.211	30.369	90.464	MWD+IFR1+MS
8300.000	0.000	0.000	8082.422	32.530	0.000	30.703	0.000	12.647	0.000	0.000	32.530	30.702	90.770	MWD+IFR1+MS
8400.000	0.000	0.000	8182.422	32.849	0.000	31.037	0.000	12.815	0.000	0.000	32.850	31.036	91.075	MWD+IFR1+MS
8500.000	0.000	0.000	8282.422	33.170	0.000	31.371	0.000	12.986	0.000	0.000	33.171	31.370	91.378	MWD+IFR1+MS
8600.000	0.000	0.000	8382.422	33.491	0.000	31.706	0.000	13.161	0.000	0.000	33.492	31.705	91.680	MWD+IFR1+MS
8700.000	0.000	0.000	8482.422	33.813	0.000	32.042	0.000	13.338	0.000	0.000	33.815	32.040	91.980	MWD+IFR1+MS
8800.000	0.000	0.000	8582.422	34.135	0.000	32.378	0.000	13.519	0.000	0.000	34.138	32.375	92.278	MWD+IFR1+MS
8900.000	0.000	0.000	8682.422	34.458	0.000	32.715	0.000	13.704	0.000	0.000	34.462	32.711	92.575	MWD+IFR1+MS
9000.000	0.000	0.000	8782.422	34.782	0.000	33.052	0.000	13.891	0.000	0.000	34.786	33.047	92.869	MWD+IFR1+MS
9100.000	0.000	0.000	8882.422	35.107	0.000	33.389	0.000	14.082	0.000	0.000	35.112	33.384	93.162	MWD+IFR1+MS
9200.000	0.000	0.000	8982.422	35.432	0.000	33.727	0.000	14.276	0.000	0.000	35.438	33.721	93.452	MWD+IFR1+MS
9300.000	0.000	0.000	9082.422	35.758	0.000	34.066	0.000	14.473	0.000	0.000	35.765	34.058	93.741	MWD+IFR1+MS

9400.000	0.000	0.000	9182.422	36.084	0.000	34.404	0.000	14.673	0.000	0.000	36.093	34.396	94.028	MWD+IFR1+MS
9500.000	0.000	0.000	9282.422	36.411	0.000	34.744	0.000	14.877	0.000	0.000	36.421	34.734	94.312	MWD+IFR1+MS
9600.000	0.000	0.000	9382.422	36.739	0.000	35.083	0.000	15.084	0.000	0.000	36.750	35.072	94.595	MWD+IFR1+MS
9700.000	0.000	0.000	9482.422	37.067	0.000	35.423	0.000	15.295	0.000	0.000	37.079	35.411	94.875	MWD+IFR1+MS
9800.000	0.000	0.000	9582.422	37.396	0.000	35.763	0.000	15.509	0.000	0.000	37.409	35.750	95.153	MWD+IFR1+MS
9900.000	0.000	0.000	9682.422	37.726	0.000	36.104	0.000	15.726	0.000	0.000	37.740	36.089	95.429	MWD+IFR1+MS
10000.000	0.000	0.000	9782.422	38.055	0.000	36.445	0.000	15.946	0.000	0.000	38.071	36.428	95.703	MWD+IFR1+MS
10100.000	0.000	0.000	9882.422	38.386	0.000	36.786	0.000	16.170	0.000	0.000	38.403	36.768	95.975	MWD+IFR1+MS
10200.000	0.000	0.000	9982.422	38.717	0.000	37.128	0.000	16.397	0.000	0.000	38.736	37.108	96.244	MWD+IFR1+MS
10300.000	0.000	0.000	10082.422	39.048	0.000	37.470	0.000	16.627	0.000	0.000	39.068	37.449	96.511	MWD+IFR1+MS
10338.380	0.000	0.000	10120.803	39.174	0.000	37.600	0.000	16.716	0.000	0.000	39.195	37.578	96.562	MWD+IFR1+MS
10400.000	4.930	179.645	10182.346	38.883	0.000	37.798	-0.000	16.859	0.000	0.000	39.417	37.774	96.536	MWD+IFR1+MS
10500.000	12.930	179.645	10281.054	38.556	0.000	38.086	-0.000	17.128	0.000	0.000	40.364	38.059	95.784	MWD+IFR1+MS
10600.000	20.930	179.645	10376.643	38.038	0.000	38.350	-0.000	17.548	0.000	0.000	41.551	38.318	95.291	MWD+IFR1+MS
10700.000	28.930	179.645	10467.252	37.016	0.000	38.585	-0.000	18.173	0.000	0.000	42.574	38.546	95.148	MWD+IFR1+MS
10800.000	36.930	179.645	10551.118	35.594	0.000	38.789	-0.000	19.044	0.000	0.000	43.418	38.744	95.154	MWD+IFR1+MS
10900.000	44.930	179.645	10626.608	33.910	0.000	38.962	-0.000	20.169	0.000	0.000	44.078	38.909	95.233	MWD+IFR1+MS
11000.000	52.930	179.645	10692.253	32.142	0.000	39.102	-0.000	21.523	0.000	0.000	44.560	39.044	95.342	MWD+IFR1+MS
11100.000	60.930	179.645	10746.776	30.505	0.000	39.210	-0.000	23.063	0.000	0.000	44.880	39.147	95.446	MWD+IFR1+MS
11200.000	68.930	179.645	10789.114	29.246	0.000	39.287	-0.000	24.732	0.000	0.000	45.063	39.222	95.507	MWD+IFR1+MS
11300.000	76.930	179.645	10818.445	28.604	0.000	39.333	-0.000	26.469	0.000	0.000	45.142	39.267	95.482	MWD+IFR1+MS
11400.000	84.930	179.645	10834.197	28.757	0.000	39.348	-0.000	28.213	0.000	0.000	45.156	39.286	95.323	MWD+IFR1+MS
11463.380	90.000	179.645	10837.000	28.752	0.000	39.339	-0.000	28.752	0.000	0.000	45.151	39.281	95.117	MWD+IFR1+MS
11500.000	90.000	179.645	10837.000	28.853	0.000	39.330	-0.000	28.853	0.000	0.000	45.149	39.275	94.980	MWD+IFR1+MS
11600.000	90.000	179.645	10837.000	29.084	0.000	39.321	-0.000	29.084	0.000	0.000	45.143	39.273	94.619	MWD+IFR1+MS
11700.000	90.000	179.645	10837.000	29.338	0.000	39.329	-0.000	29.338	0.000	0.000	45.139	39.288	94.268	MWD+IFR1+MS
11800.000	90.000	179.645	10837.000	29.611	0.000	39.352	-0.000	29.611	0.000	0.000	45.135	39.317	93.926	MWD+IFR1+MS
11900.000	90.000	179.645	10837.000	29.901	0.000	39.390	-0.000	29.901	0.000	0.000	45.132	39.360	93.589	MWD+IFR1+MS
12000.000	90.000	179.645	10837.000	30.210	0.000	39.442	-0.000	30.210	0.000	0.000	45.130	39.418	93.255	MWD+IFR1+MS
12100.000	90.000	179.645	10837.000	30.535	0.000	39.510	-0.000	30.535	0.000	0.000	45.130	39.490	92.922	MWD+IFR1+MS
12200.000	90.000	179.645	10837.000	30.877	0.000	39.592	-0.000	30.877	0.000	0.000	45.130	39.576	92.588	MWD+IFR1+MS
12300.000	90.000	179.645	10837.000	31.235	0.000	39.688	-0.000	31.235	0.000	0.000	45.131	39.676	92.251	MWD+IFR1+MS
12400.000	90.000	179.645	10837.000	31.608	0.000	39.800	-0.000	31.608	0.000	0.000	45.133	39.791	91.908	MWD+IFR1+MS

12500.000	90.000	179.645	10837.000	31.996	0.000	39.925	-0.000	31.996	0.000	0.000	45.136	39.919	91.556	MWD+IFR1+MS
12600.000	90.000	179.645	10837.000	32.398	0.000	40.065	-0.000	32.398	0.000	0.000	45.140	40.061	91.191	MWD+IFR1+MS
12700.000	90.000	179.645	10837.000	32.815	0.000	40.219	-0.000	32.815	0.000	0.000	45.145	40.217	90.811	MWD+IFR1+MS
12800.000	90.000	179.645	10837.000	33.244	0.000	40.387	-0.000	33.244	0.000	0.000	45.150	40.386	90.411	MWD+IFR1+MS
12900.000	90.000	179.645	10837.000	33.687	0.000	40.568	-0.000	33.687	0.000	0.000	45.157	40.568	89.985	MWD+IFR1+MS
13000.000	90.000	179.645	10837.000	34.142	0.000	40.764	-0.000	34.142	0.000	0.000	45.165	40.764	89.527	MWD+IFR1+MS
13100.000	90.000	179.645	10837.000	34.608	0.000	40.972	-0.000	34.608	0.000	0.000	45.174	40.972	89.029	MWD+IFR1+MS
13200.000	90.000	179.645	10837.000	35.086	0.000	41.194	-0.000	35.086	0.000	0.000	45.185	41.192	88.481	MWD+IFR1+MS
13300.000	90.000	179.645	10837.000	35.575	0.000	41.429	-0.000	35.575	0.000	0.000	45.196	41.425	87.869	MWD+IFR1+MS
13400.000	90.000	179.645	10837.000	36.074	0.000	41.676	-0.000	36.074	0.000	0.000	45.209	41.669	87.177	MWD+IFR1+MS
13500.000	90.000	179.645	10837.000	36.584	0.000	41.936	-0.000	36.584	0.000	0.000	45.224	41.925	86.381	MWD+IFR1+MS
13600.000	90.000	179.645	10837.000	37.103	0.000	42.208	-0.000	37.103	0.000	0.000	45.241	42.191	85.450	MWD+IFR1+MS
13700.000	90.000	179.645	10837.000	37.631	0.000	42.492	-0.000	37.631	0.000	0.000	45.260	42.468	84.337	MWD+IFR1+MS
13800.000	90.000	179.645	10837.000	38.168	0.000	42.788	-0.000	38.168	0.000	0.000	45.283	42.753	82.977	MWD+IFR1+MS
13900.000	90.000	179.645	10837.000	38.713	0.000	43.096	-0.000	38.713	0.000	0.000	45.309	43.047	81.274	MWD+IFR1+MS
14000.000	90.000	179.645	10837.000	39.267	0.000	43.415	-0.000	39.267	0.000	0.000	45.342	43.346	79.077	MWD+IFR1+MS
14100.000	90.000	179.645	10837.000	39.828	0.000	43.745	-0.000	39.828	0.000	0.000	45.383	43.649	76.155	MWD+IFR1+MS
14200.000	90.000	179.645	10837.000	40.397	0.000	44.086	-0.000	40.397	0.000	0.000	45.437	43.949	72.151	MWD+IFR1+MS
14300.000	90.000	179.645	10837.000	40.973	0.000	44.437	-0.000	40.973	0.000	0.000	45.514	44.239	66.568	MWD+IFR1+MS
14400.000	90.000	179.645	10837.000	41.555	0.000	44.799	-0.000	41.555	0.000	0.000	45.625	44.504	58.948	MWD+IFR1+MS
14500.000	90.000	179.645	10837.000	42.145	0.000	45.171	-0.000	42.145	0.000	0.000	45.791	44.726	49.546	MWD+IFR1+MS
14600.000	90.000	179.645	10837.000	42.740	0.000	45.553	-0.000	42.740	0.000	0.000	46.021	44.894	39.959	MWD+IFR1+MS
14700.000	90.000	179.645	10837.000	43.342	0.000	45.944	-0.000	43.342	0.000	0.000	46.312	45.011	31.961	MWD+IFR1+MS
14800.000	90.000	179.645	10837.000	43.949	0.000	46.345	-0.000	43.949	0.000	0.000	46.648	45.093	26.041	MWD+IFR1+MS
14900.000	90.000	179.645	10837.000	44.562	0.000	46.754	-0.000	44.562	0.000	0.000	47.015	45.153	21.804	MWD+IFR1+MS
15000.000	90.000	179.645	10837.000	45.180	0.000	47.173	-0.000	45.180	0.000	0.000	47.404	45.201	18.735	MWD+IFR1+MS
15100.000	90.000	179.645	10837.000	45.804	0.000	47.600	-0.000	45.804	0.000	0.000	47.809	45.241	16.451	MWD+IFR1+MS
15200.000	90.000	179.645	10837.000	46.432	0.000	48.036	-0.000	46.432	0.000	0.000	48.229	45.276	14.700	MWD+IFR1+MS
15300.000	90.000	179.645	10837.000	47.065	0.000	48.479	-0.000	47.065	0.000	0.000	48.661	45.308	13.321	MWD+IFR1+MS
15400.000	90.000	179.645	10837.000	47.702	0.000	48.931	-0.000	47.702	0.000	0.000	49.103	45.338	12.208	MWD+IFR1+MS
15500.000	90.000	179.645	10837.000	48.344	0.000	49.391	-0.000	48.344	0.000	0.000	49.554	45.367	11.292	MWD+IFR1+MS
15600.000	90.000	179.645	10837.000	48.990	0.000	49.858	-0.000	48.990	0.000	0.000	50.015	45.394	10.525	MWD+IFR1+MS
15700.000	90.000	179.645	10837.000	49.640	0.000	50.332	-0.000	49.640	0.000	0.000	50.484	45.422	9.872	MWD+IFR1+MS

15800.000	90.000	179.645	10837.000	50.294	0.000	50.813	-0.000	50.294	0.000	0.000	50.961	45.449	9.309	MWD+IFR1+MS
15900.000	90.000	179.645	10837.000	50.951	0.000	51.302	-0.000	50.951	0.000	0.000	51.445	45.475	8.818	MWD+IFR1+MS
16000.000	90.000	179.645	10837.000	51.612	0.000	51.797	-0.000	51.612	0.000	0.000	51.936	45.502	8.386	MWD+IFR1+MS
16100.000	90.000	179.645	10837.000	52.277	0.000	52.298	-0.000	52.277	0.000	0.000	52.435	45.529	8.002	MWD+IFR1+MS
16200.000	90.000	179.645	10837.000	52.945	0.000	52.806	-0.000	52.945	0.000	0.000	52.940	45.557	7.658	MWD+IFR1+MS
16300.000	90.000	179.645	10837.000	53.616	0.000	53.320	-0.000	53.616	0.000	0.000	53.451	45.584	7.349	MWD+IFR1+MS
16400.000	90.000	179.645	10837.000	54.290	0.000	53.840	-0.000	54.290	0.000	0.000	53.969	45.612	7.068	MWD+IFR1+MS
16500.000	90.000	179.645	10837.000	54.967	0.000	54.366	-0.000	54.967	0.000	0.000	54.493	45.640	6.812	MWD+IFR1+MS
16600.000	90.000	179.645	10837.000	55.646	0.000	54.898	-0.000	55.646	0.000	0.000	55.022	45.668	6.577	MWD+IFR1+MS
16700.000	90.000	179.645	10837.000	56.329	0.000	55.435	-0.000	56.329	0.000	0.000	55.558	45.697	6.361	MWD+IFR1+MS
16800.000	90.000	179.645	10837.000	57.014	0.000	55.977	-0.000	57.014	0.000	0.000	56.098	45.726	6.161	MWD+IFR1+MS
16900.000	90.000	179.645	10837.000	57.702	0.000	56.524	-0.000	57.702	0.000	0.000	56.644	45.756	5.975	MWD+IFR1+MS
17000.000	90.000	179.645	10837.000	58.392	0.000	57.077	-0.000	58.392	0.000	0.000	57.195	45.786	5.803	MWD+IFR1+MS
17100.000	90.000	179.645	10837.000	59.084	0.000	57.634	-0.000	59.084	0.000	0.000	57.751	45.817	5.641	MWD+IFR1+MS
17200.000	90.000	179.645	10837.000	59.779	0.000	58.196	-0.000	59.779	0.000	0.000	58.312	45.848	5.490	MWD+IFR1+MS
17300.000	90.000	179.645	10837.000	60.476	0.000	58.763	-0.000	60.476	0.000	0.000	58.877	45.879	5.348	MWD+IFR1+MS
17400.000	90.000	179.645	10837.000	61.175	0.000	59.334	-0.000	61.175	0.000	0.000	59.447	45.911	5.214	MWD+IFR1+MS
17500.000	90.000	179.645	10837.000	61.876	0.000	59.909	-0.000	61.876	0.000	0.000	60.021	45.944	5.088	MWD+IFR1+MS
17600.000	90.000	179.645	10837.000	62.579	0.000	60.489	-0.000	62.579	0.000	0.000	60.600	45.977	4.969	MWD+IFR1+MS
17700.000	90.000	179.645	10837.000	63.284	0.000	61.073	-0.000	63.284	0.000	0.000	61.182	46.010	4.855	MWD+IFR1+MS
17800.000	90.000	179.645	10837.000	63.991	0.000	61.660	-0.000	63.991	0.000	0.000	61.769	46.044	4.748	MWD+IFR1+MS
17900.000	90.000	179.645	10837.000	64.700	0.000	62.252	-0.000	64.700	0.000	0.000	62.360	46.078	4.646	MWD+IFR1+MS
18000.000	90.000	179.645	10837.000	65.410	0.000	62.847	-0.000	65.410	0.000	0.000	62.954	46.113	4.548	MWD+IFR1+MS
18100.000	90.000	179.645	10837.000	66.123	0.000	63.446	-0.000	66.123	0.000	0.000	63.552	46.148	4.455	MWD+IFR1+MS
18200.000	90.000	179.645	10837.000	66.836	0.000	64.049	-0.000	66.836	0.000	0.000	64.154	46.184	4.366	MWD+IFR1+MS
18300.000	90.000	179.645	10837.000	67.552	0.000	64.655	-0.000	67.552	0.000	0.000	64.759	46.221	4.281	MWD+IFR1+MS
18400.000	90.000	179.645	10837.000	68.268	0.000	65.264	-0.000	68.268	0.000	0.000	65.367	46.257	4.200	MWD+IFR1+MS
18500.000	90.000	179.645	10837.000	68.987	0.000	65.877	-0.000	68.987	0.000	0.000	65.979	46.295	4.122	MWD+IFR1+MS
18600.000	90.000	179.645	10837.000	69.707	0.000	66.493	-0.000	69.707	0.000	0.000	66.594	46.333	4.047	MWD+IFR1+MS
18700.000	90.000	179.645	10837.000	70.428	0.000	67.112	-0.000	70.428	0.000	0.000	67.212	46.371	3.975	MWD+IFR1+MS
18800.000	90.000	179.645	10837.000	71.150	0.000	67.734	-0.000	71.150	0.000	0.000	67.833	46.410	3.906	MWD+IFR1+MS
18900.000	90.000	179.645	10837.000	71.874	0.000	68.358	-0.000	71.874	0.000	0.000	68.457	46.449	3.839	MWD+IFR1+MS
19000.000	90.000	179.645	10837.000	72.599	0.000	68.986	-0.000	72.599	0.000	0.000	69.084	46.489	3.774	MWD+IFR1+MS

19100.000	90.000	179.645	10837.000	73.325	0.000	69.616	-0.000	73.325	0.000	0.000	69.714	46.529	3.712	MWD+IFR1+MS
19200.000	90.000	179.645	10837.000	74.053	0.000	70.249	-0.000	74.053	0.000	0.000	70.346	46.570	3.652	MWD+IFR1+MS
19300.000	90.000	179.645	10837.000	74.782	0.000	70.885	-0.000	74.782	0.000	0.000	70.981	46.611	3.594	MWD+IFR1+MS
19400.000	90.000	179.645	10837.000	75.511	0.000	71.523	-0.000	75.511	0.000	0.000	71.618	46.653	3.538	MWD+IFR1+MS
19500.000	90.000	179.645	10837.000	76.242	0.000	72.164	-0.000	76.242	0.000	0.000	72.258	46.695	3.484	MWD+IFR1+MS
19600.000	90.000	179.645	10837.000	76.974	0.000	72.807	-0.000	76.974	0.000	0.000	72.901	46.738	3.431	MWD+IFR1+MS
19700.000	90.000	179.645	10837.000	77.707	0.000	73.453	-0.000	77.707	0.000	0.000	73.546	46.781	3.380	MWD+IFR1+MS
19800.000	90.000	179.645	10837.000	78.441	0.000	74.100	-0.000	78.441	0.000	0.000	74.193	46.825	3.331	MWD+IFR1+MS
19900.000	90.000	179.645	10837.000	79.176	0.000	74.750	-0.000	79.176	0.000	0.000	74.842	46.869	3.283	MWD+IFR1+MS
20000.000	90.000	179.645	10837.000	79.912	0.000	75.403	-0.000	79.912	0.000	0.000	75.494	46.914	3.236	MWD+IFR1+MS
20100.000	90.000	179.645	10837.000	80.649	0.000	76.057	-0.000	80.649	0.000	0.000	76.147	46.959	3.191	MWD+IFR1+MS
20200.000	90.000	179.645	10837.000	81.386	0.000	76.713	-0.000	81.386	0.000	0.000	76.803	47.005	3.147	MWD+IFR1+MS
20300.000	90.000	179.645	10837.000	82.125	0.000	77.372	-0.000	82.125	0.000	0.000	77.461	47.051	3.104	MWD+IFR1+MS
20400.000	90.000	179.645	10837.000	82.864	0.000	78.032	-0.000	82.864	0.000	0.000	78.120	47.098	3.062	MWD+IFR1+MS
20500.000	90.000	179.645	10837.000	83.605	0.000	78.694	-0.000	83.605	0.000	0.000	78.782	47.145	3.022	MWD+IFR1+MS
20600.000	90.000	179.645	10837.000	84.346	0.000	79.358	-0.000	84.346	0.000	0.000	79.445	47.192	2.982	MWD+IFR1+MS
20700.000	90.000	179.645	10837.000	85.088	0.000	80.024	-0.000	85.088	0.000	0.000	80.110	47.240	2.944	MWD+IFR1+MS
20800.000	90.000	179.645	10837.000	85.830	0.000	80.692	-0.000	85.830	0.000	0.000	80.778	47.289	2.906	MWD+IFR1+MS
20900.000	90.000	179.645	10837.000	86.574	0.000	81.361	-0.000	86.574	0.000	0.000	81.446	47.338	2.870	MWD+IFR1+MS
21000.000	90.000	179.645	10837.000	87.318	0.000	82.032	-0.000	87.318	0.000	0.000	82.117	47.388	2.834	MWD+IFR1+MS
21100.000	90.000	179.645	10837.000	88.062	0.000	82.705	-0.000	88.062	0.000	0.000	82.789	47.438	2.799	MWD+IFR1+MS
21200.000	90.000	179.645	10837.000	88.808	0.000	83.379	-0.000	88.808	0.000	0.000	83.463	47.488	2.765	MWD+IFR1+MS
21300.000	90.000	179.645	10837.000	89.554	0.000	84.055	-0.000	89.554	0.000	0.000	84.138	47.539	2.732	MWD+IFR1+MS
21400.000	90.000	179.645	10837.000	90.301	0.000	84.732	-0.000	90.301	0.000	0.000	84.815	47.590	2.700	MWD+IFR1+MS
21500.000	90.000	179.645	10837.000	91.048	0.000	85.411	-0.000	91.048	0.000	0.000	85.493	47.642	2.668	MWD+IFR1+MS
21600.000	90.000	179.645	10837.000	91.796	0.000	86.091	-0.000	91.796	0.000	0.000	86.173	47.695	2.637	MWD+IFR1+MS
21700.000	90.000	179.645	10837.000	92.545	0.000	86.773	-0.000	92.545	0.000	0.000	86.854	47.747	2.607	MWD+IFR1+MS
21800.000	90.000	179.645	10837.000	93.294	0.000	87.456	-0.000	93.294	0.000	0.000	87.537	47.801	2.577	MWD+IFR1+MS
21826.179	90.000	179.645	10837.000	93.490	0.000	87.635	-0.000	93.490	0.000	0.000	87.715	47.815	2.569	MWD+IFR1+MS
21876.180	90.000	179.645	10837.000	93.864	0.000	87.975	-0.000	93.864	0.000	0.000	88.055	47.841	2.555	MWD+IFR1+MS

Plan Targets

507H

Measured Depth

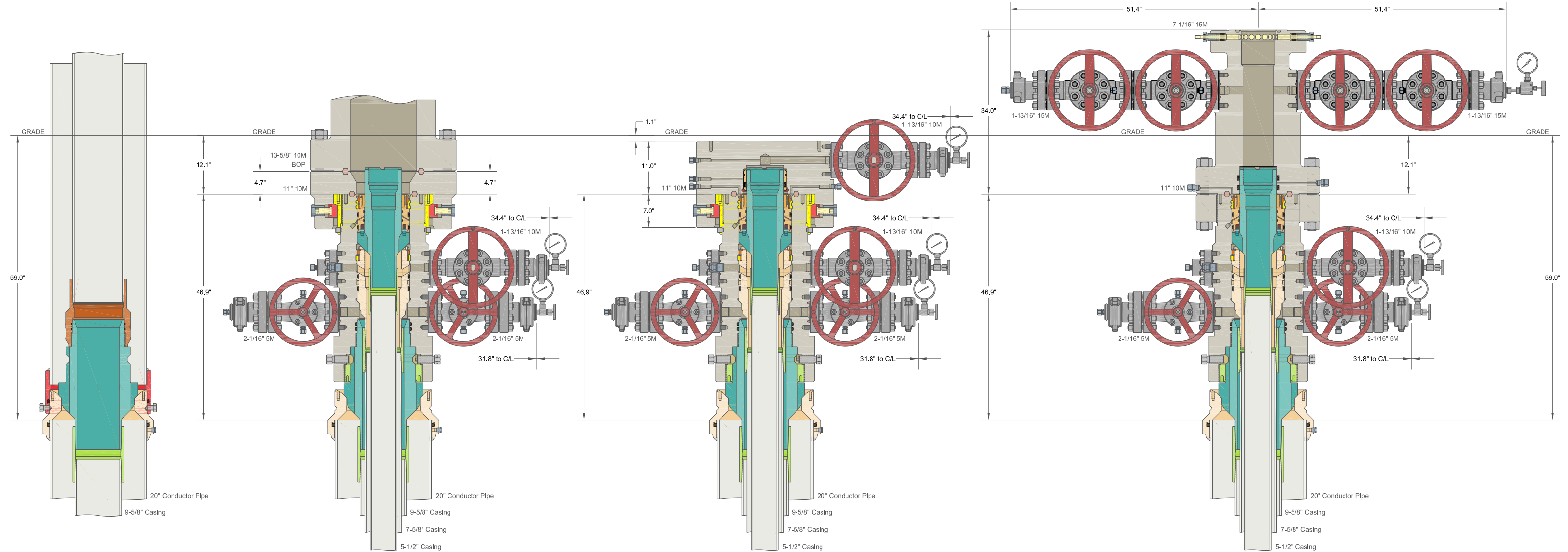
Grid Northing

Grid Easting

TVD MSL Target Shape

Target Name	(ft)	(ft)	(ft)	(ft)
FTP 1	11463.36	440411.20	665336.40	7286.00 RECTANGLE
LTP 1	21826.19	430048.60	665400.60	7286.00 RECTANGLE
BHL 1	21876.18	429998.60	665400.90	7286.00 RECTANGLE

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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC			
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers			
XTO ENERGY INC DELAWARE BASIN		DRAWN	VJK
		APPRV	31MAR22
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 298262

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 298262
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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