

Well Name: POKER LAKE UNIT 17 TWR	Well Location: T24S / R31E / SEC 20 / NENW /	County or Parish/State:
Well Number: 202H	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: 2762594

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 11/21/2023	Time Sundry Submitted: 11:59
Date proposed operation will begin: 11/22/2023	

Procedure Description: **Surface Hole Location Change, First and Last Take Point Changes, Bottom Hole Location Change, Drilling Plan Change, Directional Plan Change, Casing/Cement Change. XTO Permian Operating, LLC. requests permission to make the following changes to the original APD: SHL: fr/283'FNL & 1680'FWL to 283'FNL & 1715'FWL, Section 20-T24S-R31E FTP: fr/100'FNL & 2415'FWL to 100'FNL & 2620'FWL LTP: fr/100'FSL & 2415'FWL to 100'FSL & 2620'FWL BHL: fr/50'FSL & 2415'FWL to 50'FSL & 2620'FWL, Section 29-T24S-R31E Casing/Cement design: weight fr/23 to 20. Attachments: C102 Drilling Program Directional Plan MBS

NOI Attachments

Procedure Description

PLU_17_TWR_202H_Sundry_Attachments_20231121115848.pdf

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Well Number: 202H	Type of Well: OIL WELL	Allottee or Tribe Name:
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Conditions of Approval

Additional

Sec_20_24S_30E_NMP_Sundry_2762594_Poker_Lake_Unit_17_TWR_202H_COAs_20231205080730.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: KRISTEN HOUSTON	Signed on: NOV 21, 2023 11:57 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: KRISTEN.HOUSTON@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: 12/05/2023
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/202H**

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.)

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

XTO Permian Operating, LLC. requests permission to make the following changes to the original APD:

SHL: fr/283FNL & 1680FWL to 283FNL & 1715FWL, Section 20-T24S-R31E

FTP: fr/100FNL & 2415FWL to 100FNL & 2620FWL

LTP: fr/100FSL & 2415FWL to 100FSL & 2620FWL

BHL: fr/50FSL & 2415FWL to 50FSL & 2620FWL, Section 29-T24S-R31E

Continued on page 3 additional information

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

Title **Regulatory Analyst**

(Electronic Submission)
Signature

Date **11/21/2023**

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title **Petroleum Engineer**

Date **12/05/2023**

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

Casing/Cement design: weight fr/23 to 20.

Attachments:

C102

Drilling Program

Directional Plan

MBS

Location of Well

0. SHL: NENW / 283 FNL / 1680 FWL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209294 / LONG: -103.802962 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 2415 FWL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.2098 / LONG: -103.800588 (TVD: 10789 feet, MD: 11200 feet)

BHL: SESW / 50 FSL / 2415 FWL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.181176 / LONG: -103.800525 (TVD: 10789 feet, MD: 21595 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Poker Lake Unit 17 TWR 202H
LOCATION:	Sec 20-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Engineering changes addressed through **Sundry 2762594** on 12/05/2023. 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 685 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 6854'**
 - b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

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

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 10400091034	² Pool Code 96403	³ Pool Name Wildcat; Bone Spring
⁴ Property Code	⁵ Property Name POKER LAKE UNIT 17 TWR	⁶ Well Number 202H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,498'

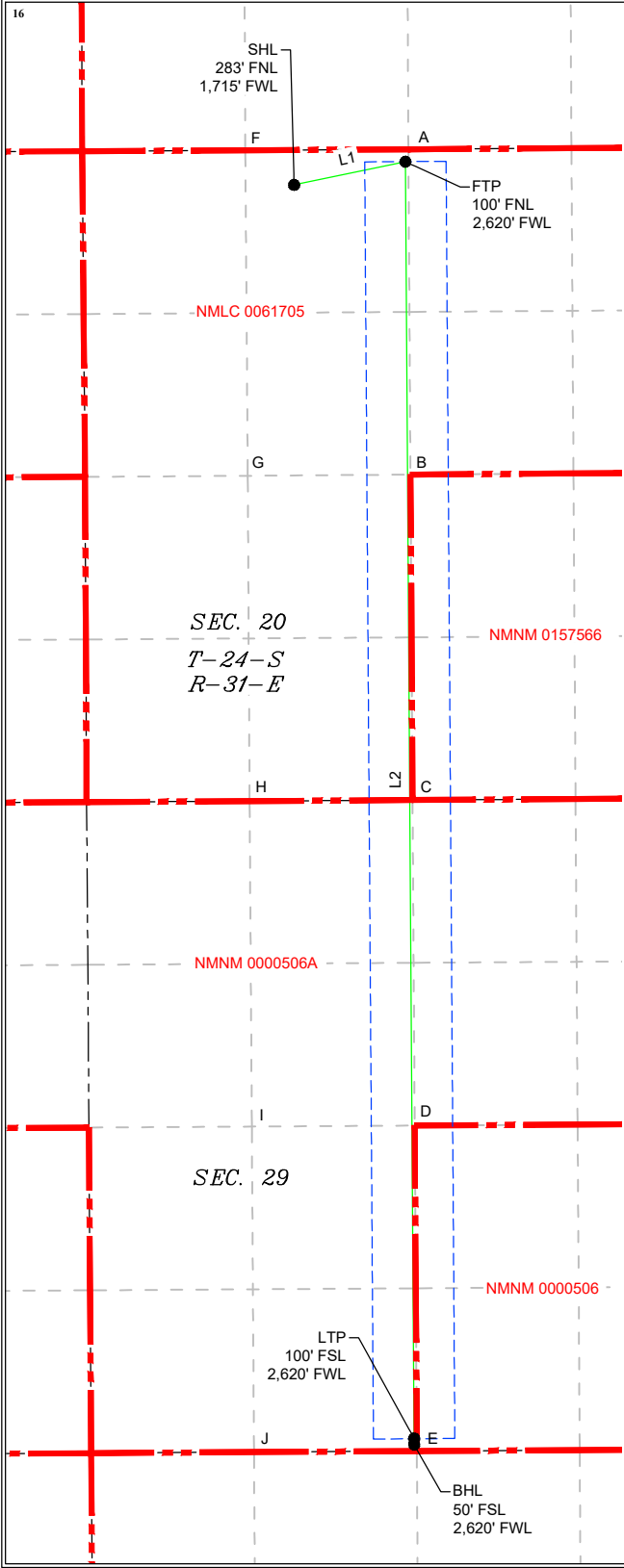
¹⁰ Surface Location									
UL or lot no. C	Section 20	Township 24S	Range 31E	Lot Idn	Feet from the 283	North/South line NORTH	Feet from the 1,715	East/West line WEST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. N	Section 29	Township 24S	Range 31E	Lot Idn	Feet from the 50	North/South line SOUTH	Feet from the 2,620	East/West line WEST	County EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

P:\618.013 XTO Energy - NM\003 Poker Lake Unit\12 - PLU 17 TWR - EDDY\Wells\13 - PLU 17 TWR 202H C-102.dwg



LEGEND		
---	SECTION LINE	
---	PROPOSED WELL BORE	
---	NEW MEXICO MINERAL LEASE	
---	330' BUFFER	
---	ALLOCATION AREA	
LINE TABLE		
LINE	AZUMITH	LENGTH
L1	078°14'13"	922.70'
L2	179°36'34"	10,412.95'

COORDINATE TABLE			
SHL (NAD 83 NME)		SHL (NAD 27 NME)	
Y =	440,280.6 N	Y =	440,221.7 N
X =	705,407.9 E	X =	664,224.0 E
LAT. =	32.209295 °N	LAT. =	32.209172 °N
LONG. =	103.802848 °W	LONG. =	103.802364 °W
FTP (NAD 83 NME)		FTP (NAD 27 NME)	
Y =	440,468.7 N	Y =	440,409.8 N
X =	706,311.2 E	X =	665,127.3 E
LAT. =	32.209800 °N	LAT. =	32.209676 °N
LONG. =	103.799925 °W	LONG. =	103.799440 °W
LTP (NAD 83 NME)		LTP (NAD 27 NME)	
Y =	430,106.0 N	Y =	430,047.4 N
X =	706,381.9 E	X =	665,197.6 E
LAT. =	32.181314 °N	LAT. =	32.181190 °N
LONG. =	103.799862 °W	LONG. =	103.799380 °W
BHL (NAD 83 NME)		BHL (NAD 27 NME)	
Y =	430,056.0 N	Y =	429,997.4 N
X =	706,382.2 E	X =	665,197.9 E
LAT. =	32.181177 °N	LAT. =	32.181053 °N
LONG. =	103.799862 °W	LONG. =	103.799379 °W
CORNER COORDINATES (NAD 83 NME)			
A - Y =	440,568.9 N	A - X =	706,335.3 E
B - Y =	437,929.1 N	B - X =	706,352.2 E
C - Y =	435,288.4 N	C - X =	706,369.2 E
D - Y =	432,647.4 N	D - X =	706,386.6 E
E - Y =	430,006.2 N	E - X =	706,403.9 E
F - Y =	440,561.0 N	F - X =	705,012.8 E
G - Y =	437,919.8 N	G - X =	705,032.9 E
H - Y =	435,280.3 N	H - X =	705,047.7 E
I - Y =	432,639.3 N	I - X =	705,065.7 E
J - Y =	429,997.9 N	J - X =	705,083.2 E
CORNER COORDINATES (NAD 27 NME)			
A - Y =	440,510.0 N	A - X =	665,151.3 E
B - Y =	437,870.2 N	B - X =	665,168.2 E
C - Y =	435,229.7 N	C - X =	665,185.1 E
D - Y =	432,588.7 N	D - X =	665,202.3 E
E - Y =	429,947.5 N	E - X =	665,219.6 E
F - Y =	440,502.0 N	F - X =	663,828.9 E
G - Y =	437,860.9 N	G - X =	663,848.9 E
H - Y =	435,221.5 N	H - X =	663,863.6 E
I - Y =	432,580.6 N	I - X =	663,881.5 E
J - Y =	429,939.2 N	J - X =	663,898.9 E

¹⁷ OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
Signature	Date
Jean A. Cooper	
Printed Name	
jean.cooper@exxonmobil.com	
E-mail Address	

¹⁸ SURVEYOR CERTIFICATION	
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
09-26-2023	
Date of Survey	
Signature and Seal of Professional Surveyor:	
MARK DILLON HARP	
NEW MEXICO	
23786	
PROFESSIONAL SURVEYOR	
MARK DILLON HARP 23786	
Certificate Number	
KC	618.013003.12-13

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

XTO Energy Inc.

PLU 17 Twin Wells Ranch 202H

Projected TD: 21263.27' MD / 10286' TVD

SHL: 283' FNL & 1715' FWL , Section 20, T24S, R31E

BHL: 50' FSL & 2620' 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	585'	Water
Top of Salt	946'	Water
Base of Salt	4127'	Water
Delaware	4333'	Water
Brushy Canyon	6854'	Water/Oil/Gas
Bone Spring	8163'	Water
1st Bone Spring	9163'	Water/Oil/Gas
2nd Bone Spring	9948'	Water/Oil/Gas
Target/Land Curve	10286'	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 @ 685' (261' 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 9526.04' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21263.27 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9226.04 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 685'	9.625	40	J-55	BTC	New	1.34	9.19	22.99
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.14	2.52	1.97
8.75	4000' – 9526.04'	7.625	29.7	HC L-80	Flush Joint	New	1.56	1.93	2.47
6.75	0' – 9426.04'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.81	2.21
6.75	9426.04' - 21263.27'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.66	2.21

- 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 +/- 685'

Lead: 120 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9526.04'

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

TOC: Brushy Canyon @ 6854

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 (6854') 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 +/- 21263.27'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9226.04 feet

Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9726.04 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 4423 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' - 685'	12.25	FW/Native	8.4-8.9	35-40	NC
685' - 9526.04'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
9526.04' - 21263.27'	6.75	OBM	12.5-13	50-60	NC - 20

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

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

7. Auxiliary Well Control and Monitoring Equipment

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

8. Logging, Coring and Testing Program

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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6686 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 - 202H

Measured Depth: 21263.27 ft

TVD RKB: 10286.00 ft

Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 440221.70 ft

Easting: 664224.00 ft

RKB: 3551.00 ft

Ground Level: 3519.00 ft

North Reference: Grid

Convergence Angle: 0.28 Deg

Site: A

Slot: 202H

Plan Sections 202H

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		
1934.65	14.69	44.81	1926.63	66.46	66.03	2.00	0.00	2.00		
6221.59	14.69	44.81	6073.37	837.82	832.39	0.00	0.00	0.00		
6956.24	0.00	0.00	6800.00	904.28	898.42	-2.00	0.00	2.00		
9726.04	0.00	0.00	9569.80	904.28	898.42	0.00	0.00	0.00		
10851.04	90.00	179.61	10286.00	188.10	903.30	8.00	0.00	8.00	FTP 6	
21213.68	90.00	179.61	10286.00	-10174.30	973.90	0.00	0.00	0.00	LTP 6	
21263.27	90.00	179.61	10286.00	-10223.88	974.24	0.00	0.00	0.00	BHL 6	

Position Uncertainty 202H

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	44.814	1299.980	5.634	0.000	4.583	0.000	2.755	0.000	0.000	5.638	4.581	132.428	MWD+IFR1+MS
1400.000	4.000	44.814	1399.838	6.358	0.000	4.971	0.000	2.819	0.000	0.000	6.373	4.966	-42.020	MWD+IFR1+MS
1500.000	6.000	44.814	1499.452	7.019	0.000	5.355	0.000	2.887	0.000	0.000	7.058	5.334	-39.248	MWD+IFR1+MS
1600.000	8.000	44.814	1598.702	7.631	0.000	5.736	0.000	2.962	0.000	0.000	7.701	5.695	-37.620	MWD+IFR1+MS
1700.000	10.000	44.814	1697.465	8.204	0.000	6.114	0.000	3.047	0.000	0.000	8.307	6.054	-36.556	MWD+IFR1+MS
1800.000	12.000	44.814	1795.623	8.744	0.000	6.490	0.000	3.143	0.000	0.000	8.884	6.413	-35.807	MWD+IFR1+MS
1900.000	14.000	44.814	1893.055	9.257	0.000	6.867	0.000	3.253	0.000	0.000	9.436	6.773	-35.248	MWD+IFR1+MS
1934.654	14.693	44.814	1926.628	9.345	0.000	6.990	0.000	3.275	0.000	0.000	9.541	6.897	-35.269	MWD+IFR1+MS
2000.000	14.693	44.814	1989.837	9.525	0.000	7.223	0.000	3.328	0.000	0.000	9.716	7.133	-35.281	MWD+IFR1+MS
2100.000	14.693	44.814	2086.567	9.809	0.000	7.595	0.000	3.417	0.000	0.000	9.991	7.507	-35.102	MWD+IFR1+MS
2200.000	14.693	44.814	2183.297	10.106	0.000	7.976	0.000	3.511	0.000	0.000	10.281	7.887	-34.788	MWD+IFR1+MS
2300.000	14.693	44.814	2280.027	10.411	0.000	8.358	0.000	3.607	0.000	0.000	10.577	8.268	-34.479	MWD+IFR1+MS
2400.000	14.693	44.814	2376.757	10.721	0.000	8.741	0.000	3.708	0.000	0.000	10.880	8.650	-34.175	MWD+IFR1+MS
2500.000	14.693	44.814	2473.487	11.038	0.000	9.125	0.000	3.810	0.000	0.000	11.187	9.033	-33.875	MWD+IFR1+MS
2600.000	14.693	44.814	2570.216	11.360	0.000	9.509	0.000	3.916	0.000	0.000	11.500	9.416	-33.579	MWD+IFR1+MS
2700.000	14.693	44.814	2666.946	11.687	0.000	9.894	0.000	4.024	0.000	0.000	11.817	9.800	-33.288	MWD+IFR1+MS
2800.000	14.693	44.814	2763.676	12.018	0.000	10.279	0.000	4.135	0.000	0.000	12.139	10.184	-33.002	MWD+IFR1+MS
2900.000	14.693	44.814	2860.406	12.354	0.000	10.665	0.000	4.248	0.000	0.000	12.464	10.569	-32.719	MWD+IFR1+MS

3000.000	14.693	44.814	2957.136	12.693	0.000	11.051	0.000	4.363	0.000	0.000	12.793	10.954	-32.441	MWD+IFR1+MS
3100.000	14.693	44.814	3053.866	13.036	0.000	11.437	0.000	4.480	0.000	0.000	13.125	11.340	-32.167	MWD+IFR1+MS
3200.000	14.693	44.814	3150.595	13.382	0.000	11.824	0.000	4.599	0.000	0.000	13.461	11.726	-31.896	MWD+IFR1+MS
3300.000	14.693	44.814	3247.325	13.731	0.000	12.211	0.000	4.720	0.000	0.000	13.799	12.112	-31.630	MWD+IFR1+MS
3400.000	14.693	44.814	3344.055	14.083	0.000	12.598	0.000	4.843	0.000	0.000	14.139	12.499	-31.368	MWD+IFR1+MS
3500.000	14.693	44.814	3440.785	14.437	0.000	12.986	0.000	4.968	0.000	0.000	14.483	12.886	-31.110	MWD+IFR1+MS
3600.000	14.693	44.814	3537.515	14.794	0.000	13.374	0.000	5.094	0.000	0.000	14.828	13.273	-30.856	MWD+IFR1+MS
3700.000	14.693	44.814	3634.245	15.153	0.000	13.761	0.000	5.222	0.000	0.000	15.176	13.660	-30.605	MWD+IFR1+MS
3800.000	14.693	44.814	3730.974	15.514	0.000	14.149	0.000	5.352	0.000	0.000	15.525	14.048	-30.358	MWD+IFR1+MS
3900.000	14.693	44.814	3827.704	15.877	0.000	14.538	0.000	5.483	0.000	0.000	15.877	14.436	-30.115	MWD+IFR1+MS
4000.000	14.693	44.814	3924.434	16.242	0.000	14.926	0.000	5.616	0.000	0.000	16.230	14.824	-29.875	MWD+IFR1+MS
4100.000	14.693	44.814	4021.164	16.608	0.000	15.315	0.000	5.750	0.000	0.000	16.585	15.212	-29.640	MWD+IFR1+MS
4200.000	14.693	44.814	4117.894	16.976	0.000	15.703	0.000	5.886	0.000	0.000	16.941	15.600	-29.407	MWD+IFR1+MS
4300.000	14.693	44.814	4214.624	17.345	0.000	16.092	0.000	6.023	0.000	0.000	17.299	15.989	-29.179	MWD+IFR1+MS
4400.000	14.693	44.814	4311.353	17.716	0.000	16.481	0.000	6.162	0.000	0.000	17.658	16.377	-28.953	MWD+IFR1+MS
4500.000	14.693	44.814	4408.083	18.089	0.000	16.870	0.000	6.303	0.000	0.000	18.018	16.766	-28.732	MWD+IFR1+MS
4600.000	14.693	44.814	4504.813	18.462	0.000	17.259	0.000	6.445	0.000	0.000	18.380	17.155	-28.513	MWD+IFR1+MS
4700.000	14.693	44.814	4601.543	18.836	0.000	17.648	0.000	6.588	0.000	0.000	18.743	17.544	-28.298	MWD+IFR1+MS
4800.000	14.693	44.814	4698.273	19.212	0.000	18.038	0.000	6.733	0.000	0.000	19.106	17.933	-28.087	MWD+IFR1+MS
4900.000	14.693	44.814	4795.003	19.589	0.000	18.427	0.000	6.880	0.000	0.000	19.471	18.322	-27.879	MWD+IFR1+MS
5000.000	14.693	44.814	4891.733	19.966	0.000	18.816	0.000	7.028	0.000	0.000	19.837	18.712	-27.674	MWD+IFR1+MS
5100.000	14.693	44.814	4988.462	20.345	0.000	19.206	0.000	7.178	0.000	0.000	20.203	19.101	-27.473	MWD+IFR1+MS
5200.000	14.693	44.814	5085.192	20.724	0.000	19.595	0.000	7.329	0.000	0.000	20.570	19.491	-27.275	MWD+IFR1+MS
5300.000	14.693	44.814	5181.922	21.104	0.000	19.985	0.000	7.482	0.000	0.000	20.939	19.880	-27.080	MWD+IFR1+MS
5400.000	14.693	44.814	5278.652	21.485	0.000	20.375	0.000	7.636	0.000	0.000	21.307	20.270	-26.888	MWD+IFR1+MS
5500.000	14.693	44.814	5375.382	21.867	0.000	20.764	0.000	7.792	0.000	0.000	21.677	20.660	-26.700	MWD+IFR1+MS
5600.000	14.693	44.814	5472.112	22.249	0.000	21.154	0.000	7.950	0.000	0.000	22.047	21.050	-26.516	MWD+IFR1+MS
5700.000	14.693	44.814	5568.841	22.632	0.000	21.544	0.000	8.110	0.000	0.000	22.418	21.440	-26.334	MWD+IFR1+MS
5800.000	14.693	44.814	5665.571	23.015	0.000	21.934	0.000	8.271	0.000	0.000	22.790	21.830	-26.156	MWD+IFR1+MS
5900.000	14.693	44.814	5762.301	23.400	0.000	22.324	0.000	8.433	0.000	0.000	23.162	22.220	-25.982	MWD+IFR1+MS
6000.000	14.693	44.814	5859.031	23.784	0.000	22.714	0.000	8.598	0.000	0.000	23.535	22.610	-25.810	MWD+IFR1+MS
6100.000	14.693	44.814	5955.761	24.170	0.000	23.104	0.000	8.764	0.000	0.000	23.908	23.000	-25.643	MWD+IFR1+MS
6200.000	14.693	44.814	6052.491	24.555	0.000	23.494	0.000	8.932	0.000	0.000	24.282	23.391	-25.478	MWD+IFR1+MS

6221.587	14.693	44.814	6073.372	24.637	0.000	23.576	0.000	8.968	0.000	0.000	24.361	23.474	-25.519	MWD+IFR1+MS
6300.000	13.125	44.814	6149.483	24.973	0.000	23.875	0.000	9.102	0.000	0.000	24.656	23.776	-25.713	MWD+IFR1+MS
6400.000	11.125	44.814	6247.247	25.440	0.000	24.255	0.000	9.277	0.000	0.000	25.100	24.155	-26.359	MWD+IFR1+MS
6500.000	9.125	44.814	6345.685	25.890	0.000	24.629	0.000	9.445	0.000	0.000	25.560	24.526	-27.003	MWD+IFR1+MS
6600.000	7.125	44.814	6444.676	26.301	0.000	24.995	0.000	9.604	0.000	0.000	26.012	24.890	-27.539	MWD+IFR1+MS
6700.000	5.125	44.814	6544.100	26.670	0.000	25.353	0.000	9.756	0.000	0.000	26.455	25.245	-27.980	MWD+IFR1+MS
6800.000	3.125	44.814	6643.836	27.000	0.000	25.703	0.000	9.901	0.000	0.000	26.889	25.592	-28.338	MWD+IFR1+MS
6900.000	1.125	44.814	6743.763	27.289	0.000	26.045	0.000	10.042	0.000	0.000	27.312	25.930	-28.621	MWD+IFR1+MS
6956.241	0.000	0.000	6800.000	26.448	0.000	27.185	0.000	10.119	0.000	0.000	27.502	26.119	-28.879	MWD+IFR1+MS
7000.000	0.000	0.000	6843.759	26.592	0.000	27.321	0.000	10.178	0.000	0.000	27.636	26.264	-28.956	MWD+IFR1+MS
7100.000	0.000	0.000	6943.759	26.921	0.000	27.634	0.000	10.317	0.000	0.000	27.948	26.596	-29.092	MWD+IFR1+MS
7200.000	0.000	0.000	7043.759	27.255	0.000	27.952	0.000	10.458	0.000	0.000	28.267	26.928	-29.300	MWD+IFR1+MS
7300.000	0.000	0.000	7143.759	27.588	0.000	28.270	0.000	10.602	0.000	0.000	28.586	27.261	-29.507	MWD+IFR1+MS
7400.000	0.000	0.000	7243.759	27.923	0.000	28.590	0.000	10.749	0.000	0.000	28.906	27.595	-29.713	MWD+IFR1+MS
7500.000	0.000	0.000	7343.759	28.258	0.000	28.910	0.000	10.899	0.000	0.000	29.228	27.929	-29.919	MWD+IFR1+MS
7600.000	0.000	0.000	7443.759	28.593	0.000	29.231	0.000	11.051	0.000	0.000	29.550	28.264	-30.123	MWD+IFR1+MS
7700.000	0.000	0.000	7543.759	28.929	0.000	29.553	0.000	11.207	0.000	0.000	29.873	28.599	-30.328	MWD+IFR1+MS
7800.000	0.000	0.000	7643.759	29.266	0.000	29.876	0.000	11.366	0.000	0.000	30.197	28.935	-30.531	MWD+IFR1+MS
7900.000	0.000	0.000	7743.759	29.603	0.000	30.200	0.000	11.528	0.000	0.000	30.522	29.271	-30.734	MWD+IFR1+MS
8000.000	0.000	0.000	7843.759	29.940	0.000	30.524	0.000	11.692	0.000	0.000	30.847	29.608	-30.936	MWD+IFR1+MS
8100.000	0.000	0.000	7943.759	30.279	0.000	30.850	0.000	11.860	0.000	0.000	31.173	29.945	-31.137	MWD+IFR1+MS
8200.000	0.000	0.000	8043.759	30.617	0.000	31.176	0.000	12.031	0.000	0.000	31.500	30.283	-31.337	MWD+IFR1+MS
8300.000	0.000	0.000	8143.759	30.956	0.000	31.502	0.000	12.205	0.000	0.000	31.828	30.621	-31.537	MWD+IFR1+MS
8400.000	0.000	0.000	8243.759	31.296	0.000	31.830	0.000	12.382	0.000	0.000	32.156	30.960	-31.736	MWD+IFR1+MS
8500.000	0.000	0.000	8343.759	31.635	0.000	32.158	0.000	12.562	0.000	0.000	32.485	31.299	-31.934	MWD+IFR1+MS
8600.000	0.000	0.000	8443.759	31.976	0.000	32.486	0.000	12.746	0.000	0.000	32.815	31.638	-32.131	MWD+IFR1+MS
8700.000	0.000	0.000	8543.759	32.316	0.000	32.816	0.000	12.932	0.000	0.000	33.145	31.978	-32.327	MWD+IFR1+MS
8800.000	0.000	0.000	8643.759	32.657	0.000	33.146	0.000	13.122	0.000	0.000	33.476	32.319	-32.523	MWD+IFR1+MS
8900.000	0.000	0.000	8743.759	32.999	0.000	33.476	0.000	13.314	0.000	0.000	33.808	32.659	-32.717	MWD+IFR1+MS
9000.000	0.000	0.000	8843.759	33.340	0.000	33.807	0.000	13.510	0.000	0.000	34.140	33.000	-32.911	MWD+IFR1+MS
9100.000	0.000	0.000	8943.759	33.683	0.000	34.139	0.000	13.709	0.000	0.000	34.472	33.341	-33.104	MWD+IFR1+MS
9200.000	0.000	0.000	9043.759	34.025	0.000	34.471	0.000	13.912	0.000	0.000	34.805	33.683	-33.295	MWD+IFR1+MS
9300.000	0.000	0.000	9143.759	34.368	0.000	34.804	0.000	14.117	0.000	0.000	35.139	34.025	-33.486	MWD+IFR1+MS

9400.000	0.000	0.000	9243.759	34.711	0.000	35.137	0.000	14.326	0.000	0.000	35.473	34.367	-33.676	MWD+IFR1+MS
9500.000	0.000	0.000	9343.759	35.054	0.000	35.470	0.000	14.537	0.000	0.000	35.808	34.710	-33.865	MWD+IFR1+MS
9600.000	0.000	0.000	9443.759	35.398	0.000	35.805	0.000	14.752	0.000	0.000	36.143	35.052	-34.053	MWD+IFR1+MS
9700.000	0.000	0.000	9543.759	35.742	0.000	36.139	0.000	14.971	0.000	0.000	36.479	35.396	-34.240	MWD+IFR1+MS
9726.044	0.000	0.000	9569.803	35.830	0.000	36.225	0.000	15.028	0.000	0.000	36.564	35.485	-34.266	MWD+IFR1+MS
9800.000	5.916	179.610	9643.628	35.661	0.000	36.462	-0.000	15.191	0.000	0.000	36.820	35.776	-36.417	MWD+IFR1+MS
9900.000	13.916	179.610	9742.054	35.719	0.000	36.748	-0.000	15.470	0.000	0.000	37.604	36.409	121.576	MWD+IFR1+MS
10000.000	21.916	179.610	9837.127	35.528	0.000	37.012	-0.000	15.925	0.000	0.000	38.733	36.807	108.419	MWD+IFR1+MS
10100.000	29.916	179.610	9926.997	34.855	0.000	37.251	-0.000	16.613	0.000	0.000	39.776	37.086	103.681	MWD+IFR1+MS
10200.000	37.916	179.610	10009.915	33.790	0.000	37.462	-0.000	17.570	0.000	0.000	40.652	37.312	101.580	MWD+IFR1+MS
10300.000	45.916	179.610	10084.266	32.452	0.000	37.644	-0.000	18.793	0.000	0.000	41.343	37.498	100.590	MWD+IFR1+MS
10400.000	53.916	179.610	10148.604	30.991	0.000	37.797	-0.000	20.248	0.000	0.000	41.852	37.648	100.202	MWD+IFR1+MS
10500.000	61.916	179.610	10201.677	29.593	0.000	37.921	-0.000	21.883	0.000	0.000	42.196	37.763	100.202	MWD+IFR1+MS
10600.000	69.916	179.610	10242.450	28.467	0.000	38.016	-0.000	23.634	0.000	0.000	42.401	37.845	100.477	MWD+IFR1+MS
10700.000	77.916	179.610	10270.132	27.826	0.000	38.083	-0.000	25.437	0.000	0.000	42.502	37.894	100.941	MWD+IFR1+MS
10800.000	85.916	179.610	10284.182	27.838	0.000	38.120	-0.000	27.232	0.000	0.000	42.540	37.912	101.498	MWD+IFR1+MS
10851.044	90.000	179.610	10286.000	27.564	0.000	38.126	-0.000	27.564	0.000	0.000	42.550	37.908	101.763	MWD+IFR1+MS
10900.000	90.000	179.610	10286.000	27.690	0.000	38.129	-0.000	27.690	0.000	0.000	42.560	37.901	102.019	MWD+IFR1+MS
11000.000	90.000	179.610	10286.000	27.908	0.000	38.150	-0.000	27.908	0.000	0.000	42.581	37.901	102.575	MWD+IFR1+MS
11100.000	90.000	179.610	10286.000	28.149	0.000	38.189	-0.000	28.149	0.000	0.000	42.604	37.917	103.170	MWD+IFR1+MS
11200.000	90.000	179.610	10286.000	28.410	0.000	38.244	-0.000	28.410	0.000	0.000	42.630	37.946	103.803	MWD+IFR1+MS
11300.000	90.000	179.610	10286.000	28.690	0.000	38.313	-0.000	28.690	0.000	0.000	42.657	37.988	104.478	MWD+IFR1+MS
11400.000	90.000	179.610	10286.000	28.989	0.000	38.398	-0.000	28.989	0.000	0.000	42.688	38.044	105.200	MWD+IFR1+MS
11500.000	90.000	179.610	10286.000	29.306	0.000	38.498	-0.000	29.306	0.000	0.000	42.722	38.112	105.975	MWD+IFR1+MS
11600.000	90.000	179.610	10286.000	29.640	0.000	38.613	-0.000	29.640	0.000	0.000	42.759	38.192	106.808	MWD+IFR1+MS
11700.000	90.000	179.610	10286.000	29.991	0.000	38.742	-0.000	29.991	0.000	0.000	42.799	38.284	107.706	MWD+IFR1+MS
11800.000	90.000	179.610	10286.000	30.358	0.000	38.886	-0.000	30.358	0.000	0.000	42.844	38.386	108.675	MWD+IFR1+MS
11900.000	90.000	179.610	10286.000	30.741	0.000	39.045	-0.000	30.741	0.000	0.000	42.893	38.500	109.723	MWD+IFR1+MS
12000.000	90.000	179.610	10286.000	31.139	0.000	39.218	-0.000	31.139	0.000	0.000	42.947	38.623	110.858	MWD+IFR1+MS
12100.000	90.000	179.610	10286.000	31.551	0.000	39.405	-0.000	31.551	0.000	0.000	43.007	38.755	112.088	MWD+IFR1+MS
12200.000	90.000	179.610	10286.000	31.977	0.000	39.606	-0.000	31.977	0.000	0.000	43.073	38.895	113.422	MWD+IFR1+MS
12300.000	90.000	179.610	10286.000	32.417	0.000	39.821	-0.000	32.417	0.000	0.000	43.146	39.042	114.867	MWD+IFR1+MS
12400.000	90.000	179.610	10286.000	32.870	0.000	40.049	-0.000	32.870	0.000	0.000	43.228	39.195	116.431	MWD+IFR1+MS

12500.000	90.000	179.610	10286.000	33.334	0.000	40.290	-0.000	33.334	0.000	0.000	43.318	39.353	118.120	MWD+IFR1+MS
12600.000	90.000	179.610	10286.000	33.811	0.000	40.545	-0.000	33.811	0.000	0.000	43.420	39.513	119.936	MWD+IFR1+MS
12700.000	90.000	179.610	10286.000	34.299	0.000	40.812	-0.000	34.299	0.000	0.000	43.532	39.676	121.880	MWD+IFR1+MS
12800.000	90.000	179.610	10286.000	34.798	0.000	41.092	-0.000	34.798	0.000	0.000	43.658	39.838	123.945	MWD+IFR1+MS
12900.000	90.000	179.610	10286.000	35.307	0.000	41.384	-0.000	35.307	0.000	0.000	43.798	39.999	126.122	MWD+IFR1+MS
13000.000	90.000	179.610	10286.000	35.827	0.000	41.688	-0.000	35.827	0.000	0.000	43.954	40.157	128.394	MWD+IFR1+MS
13100.000	90.000	179.610	10286.000	36.355	0.000	42.004	-0.000	36.355	0.000	0.000	44.126	40.311	130.737	MWD+IFR1+MS
13200.000	90.000	179.610	10286.000	36.893	0.000	42.331	-0.000	36.893	0.000	0.000	44.316	40.459	133.123	MWD+IFR1+MS
13300.000	90.000	179.610	10286.000	37.440	0.000	42.670	-0.000	37.440	0.000	0.000	44.525	40.600	-44.480	MWD+IFR1+MS
13400.000	90.000	179.610	10286.000	37.995	0.000	43.019	-0.000	37.995	0.000	0.000	44.752	40.734	-42.104	MWD+IFR1+MS
13500.000	90.000	179.610	10286.000	38.558	0.000	43.380	-0.000	38.558	0.000	0.000	44.999	40.860	-39.780	MWD+IFR1+MS
13600.000	90.000	179.610	10286.000	39.128	0.000	43.750	-0.000	39.128	0.000	0.000	45.265	40.978	-37.536	MWD+IFR1+MS
13700.000	90.000	179.610	10286.000	39.706	0.000	44.131	-0.000	39.706	0.000	0.000	45.550	41.087	-35.393	MWD+IFR1+MS
13800.000	90.000	179.610	10286.000	40.291	0.000	44.522	-0.000	40.291	0.000	0.000	45.852	41.189	-33.366	MWD+IFR1+MS
13900.000	90.000	179.610	10286.000	40.883	0.000	44.922	-0.000	40.883	0.000	0.000	46.173	41.284	-31.465	MWD+IFR1+MS
14000.000	90.000	179.610	10286.000	41.481	0.000	45.332	-0.000	41.481	0.000	0.000	46.509	41.372	-29.692	MWD+IFR1+MS
14100.000	90.000	179.610	10286.000	42.085	0.000	45.751	-0.000	42.085	0.000	0.000	46.862	41.454	-28.048	MWD+IFR1+MS
14200.000	90.000	179.610	10286.000	42.695	0.000	46.179	-0.000	42.695	0.000	0.000	47.230	41.531	-26.528	MWD+IFR1+MS
14300.000	90.000	179.610	10286.000	43.311	0.000	46.615	-0.000	43.311	0.000	0.000	47.611	41.603	-25.126	MWD+IFR1+MS
14400.000	90.000	179.610	10286.000	43.932	0.000	47.060	-0.000	43.932	0.000	0.000	48.006	41.670	-23.835	MWD+IFR1+MS
14500.000	90.000	179.610	10286.000	44.558	0.000	47.513	-0.000	44.558	0.000	0.000	48.414	41.734	-22.646	MWD+IFR1+MS
14600.000	90.000	179.610	10286.000	45.189	0.000	47.974	-0.000	45.189	0.000	0.000	48.833	41.794	-21.552	MWD+IFR1+MS
14700.000	90.000	179.610	10286.000	45.825	0.000	48.443	-0.000	45.825	0.000	0.000	49.263	41.852	-20.545	MWD+IFR1+MS
14800.000	90.000	179.610	10286.000	46.466	0.000	48.919	-0.000	46.466	0.000	0.000	49.704	41.907	-19.616	MWD+IFR1+MS
14900.000	90.000	179.610	10286.000	47.110	0.000	49.402	-0.000	47.110	0.000	0.000	50.155	41.960	-18.758	MWD+IFR1+MS
15000.000	90.000	179.610	10286.000	47.759	0.000	49.893	-0.000	47.759	0.000	0.000	50.616	42.011	-17.966	MWD+IFR1+MS
15100.000	90.000	179.610	10286.000	48.412	0.000	50.390	-0.000	48.412	0.000	0.000	51.086	42.060	-17.232	MWD+IFR1+MS
15200.000	90.000	179.610	10286.000	49.069	0.000	50.894	-0.000	49.069	0.000	0.000	51.564	42.108	-16.551	MWD+IFR1+MS
15300.000	90.000	179.610	10286.000	49.730	0.000	51.405	-0.000	49.730	0.000	0.000	52.051	42.154	-15.919	MWD+IFR1+MS
15400.000	90.000	179.610	10286.000	50.394	0.000	51.922	-0.000	50.394	0.000	0.000	52.545	42.200	-15.331	MWD+IFR1+MS
15500.000	90.000	179.610	10286.000	51.062	0.000	52.445	-0.000	51.062	0.000	0.000	53.047	42.244	-14.782	MWD+IFR1+MS
15600.000	90.000	179.610	10286.000	51.733	0.000	52.973	-0.000	51.733	0.000	0.000	53.557	42.288	-14.270	MWD+IFR1+MS
15700.000	90.000	179.610	10286.000	52.407	0.000	53.508	-0.000	52.407	0.000	0.000	54.073	42.331	-13.791	MWD+IFR1+MS

15800.000	90.000	179.610	10286.000	53.084	0.000	54.048	-0.000	53.084	0.000	0.000	54.596	42.374	-13.342	MWD+IFR1+MS
15900.000	90.000	179.610	10286.000	53.764	0.000	54.593	-0.000	53.764	0.000	0.000	55.125	42.416	-12.921	MWD+IFR1+MS
16000.000	90.000	179.610	10286.000	54.447	0.000	55.144	-0.000	54.447	0.000	0.000	55.661	42.458	-12.525	MWD+IFR1+MS
16100.000	90.000	179.610	10286.000	55.132	0.000	55.700	-0.000	55.132	0.000	0.000	56.202	42.500	-12.153	MWD+IFR1+MS
16200.000	90.000	179.610	10286.000	55.820	0.000	56.260	-0.000	55.820	0.000	0.000	56.749	42.541	-11.801	MWD+IFR1+MS
16300.000	90.000	179.610	10286.000	56.511	0.000	56.826	-0.000	56.511	0.000	0.000	57.302	42.583	-11.470	MWD+IFR1+MS
16400.000	90.000	179.610	10286.000	57.204	0.000	57.396	-0.000	57.204	0.000	0.000	57.860	42.624	-11.156	MWD+IFR1+MS
16500.000	90.000	179.610	10286.000	57.900	0.000	57.971	-0.000	57.900	0.000	0.000	58.423	42.665	-10.859	MWD+IFR1+MS
16600.000	90.000	179.610	10286.000	58.597	0.000	58.550	-0.000	58.597	0.000	0.000	58.990	42.706	-10.578	MWD+IFR1+MS
16700.000	90.000	179.610	10286.000	59.297	0.000	59.133	-0.000	59.297	0.000	0.000	59.563	42.747	-10.311	MWD+IFR1+MS
16800.000	90.000	179.610	10286.000	59.999	0.000	59.720	-0.000	59.999	0.000	0.000	60.140	42.788	-10.057	MWD+IFR1+MS
16900.000	90.000	179.610	10286.000	60.703	0.000	60.312	-0.000	60.703	0.000	0.000	60.722	42.829	-9.816	MWD+IFR1+MS
17000.000	90.000	179.610	10286.000	61.409	0.000	60.907	-0.000	61.409	0.000	0.000	61.308	42.871	-9.586	MWD+IFR1+MS
17100.000	90.000	179.610	10286.000	62.117	0.000	61.506	-0.000	62.117	0.000	0.000	61.898	42.912	-9.367	MWD+IFR1+MS
17200.000	90.000	179.610	10286.000	62.827	0.000	62.109	-0.000	62.827	0.000	0.000	62.493	42.954	-9.158	MWD+IFR1+MS
17300.000	90.000	179.610	10286.000	63.538	0.000	62.715	-0.000	63.538	0.000	0.000	63.091	42.996	-8.958	MWD+IFR1+MS
17400.000	90.000	179.610	10286.000	64.251	0.000	63.325	-0.000	64.251	0.000	0.000	63.693	43.038	-8.767	MWD+IFR1+MS
17500.000	90.000	179.610	10286.000	64.966	0.000	63.938	-0.000	64.966	0.000	0.000	64.298	43.080	-8.584	MWD+IFR1+MS
17600.000	90.000	179.610	10286.000	65.683	0.000	64.554	-0.000	65.683	0.000	0.000	64.908	43.123	-8.409	MWD+IFR1+MS
17700.000	90.000	179.610	10286.000	66.401	0.000	65.173	-0.000	66.401	0.000	0.000	65.520	43.166	-8.241	MWD+IFR1+MS
17800.000	90.000	179.610	10286.000	67.120	0.000	65.796	-0.000	67.120	0.000	0.000	66.136	43.209	-8.080	MWD+IFR1+MS
17900.000	90.000	179.610	10286.000	67.841	0.000	66.421	-0.000	67.841	0.000	0.000	66.755	43.252	-7.925	MWD+IFR1+MS
18000.000	90.000	179.610	10286.000	68.563	0.000	67.050	-0.000	68.563	0.000	0.000	67.377	43.296	-7.776	MWD+IFR1+MS
18100.000	90.000	179.610	10286.000	69.287	0.000	67.681	-0.000	69.287	0.000	0.000	68.003	43.340	-7.633	MWD+IFR1+MS
18200.000	90.000	179.610	10286.000	70.012	0.000	68.315	-0.000	70.012	0.000	0.000	68.631	43.384	-7.496	MWD+IFR1+MS
18300.000	90.000	179.610	10286.000	70.738	0.000	68.952	-0.000	70.738	0.000	0.000	69.262	43.429	-7.363	MWD+IFR1+MS
18400.000	90.000	179.610	10286.000	71.466	0.000	69.591	-0.000	71.466	0.000	0.000	69.896	43.474	-7.236	MWD+IFR1+MS
18500.000	90.000	179.610	10286.000	72.194	0.000	70.233	-0.000	72.194	0.000	0.000	70.533	43.519	-7.113	MWD+IFR1+MS
18600.000	90.000	179.610	10286.000	72.924	0.000	70.877	-0.000	72.924	0.000	0.000	71.172	43.565	-6.994	MWD+IFR1+MS
18700.000	90.000	179.610	10286.000	73.655	0.000	71.524	-0.000	73.655	0.000	0.000	71.814	43.611	-6.879	MWD+IFR1+MS
18800.000	90.000	179.610	10286.000	74.387	0.000	72.173	-0.000	74.387	0.000	0.000	72.458	43.657	-6.768	MWD+IFR1+MS
18900.000	90.000	179.610	10286.000	75.120	0.000	72.824	-0.000	75.120	0.000	0.000	73.105	43.704	-6.661	MWD+IFR1+MS
19000.000	90.000	179.610	10286.000	75.855	0.000	73.477	-0.000	75.855	0.000	0.000	73.754	43.751	-6.558	MWD+IFR1+MS

19100.000	90.000	179.610	10286.000	76.590	0.000	74.133	-0.000	76.590	0.000	0.000	74.405	43.798	-6.457	MWD+IFR1+MS
19200.000	90.000	179.610	10286.000	77.326	0.000	74.791	-0.000	77.326	0.000	0.000	75.059	43.846	-6.360	MWD+IFR1+MS
19300.000	90.000	179.610	10286.000	78.063	0.000	75.450	-0.000	78.063	0.000	0.000	75.714	43.894	-6.266	MWD+IFR1+MS
19400.000	90.000	179.610	10286.000	78.801	0.000	76.112	-0.000	78.801	0.000	0.000	76.372	43.943	-6.175	MWD+IFR1+MS
19500.000	90.000	179.610	10286.000	79.540	0.000	76.776	-0.000	79.540	0.000	0.000	77.032	43.992	-6.087	MWD+IFR1+MS
19600.000	90.000	179.610	10286.000	80.280	0.000	77.441	-0.000	80.280	0.000	0.000	77.694	44.041	-6.001	MWD+IFR1+MS
19700.000	90.000	179.610	10286.000	81.020	0.000	78.109	-0.000	81.020	0.000	0.000	78.358	44.091	-5.918	MWD+IFR1+MS
19800.000	90.000	179.610	10286.000	81.762	0.000	78.778	-0.000	81.762	0.000	0.000	79.023	44.141	-5.837	MWD+IFR1+MS
19900.000	90.000	179.610	10286.000	82.504	0.000	79.449	-0.000	82.504	0.000	0.000	79.691	44.191	-5.759	MWD+IFR1+MS
20000.000	90.000	179.610	10286.000	83.247	0.000	80.121	-0.000	83.247	0.000	0.000	80.360	44.242	-5.683	MWD+IFR1+MS
20100.000	90.000	179.610	10286.000	83.991	0.000	80.796	-0.000	83.991	0.000	0.000	81.031	44.293	-5.609	MWD+IFR1+MS
20200.000	90.000	179.610	10286.000	84.736	0.000	81.471	-0.000	84.736	0.000	0.000	81.704	44.345	-5.537	MWD+IFR1+MS
20300.000	90.000	179.610	10286.000	85.481	0.000	82.149	-0.000	85.481	0.000	0.000	82.378	44.397	-5.467	MWD+IFR1+MS
20400.000	90.000	179.610	10286.000	86.227	0.000	82.828	-0.000	86.227	0.000	0.000	83.054	44.450	-5.398	MWD+IFR1+MS
20500.000	90.000	179.610	10286.000	86.973	0.000	83.508	-0.000	86.973	0.000	0.000	83.731	44.503	-5.332	MWD+IFR1+MS
20600.000	90.000	179.610	10286.000	87.721	0.000	84.190	-0.000	87.721	0.000	0.000	84.411	44.556	-5.267	MWD+IFR1+MS
20700.000	90.000	179.610	10286.000	88.469	0.000	84.874	-0.000	88.469	0.000	0.000	85.091	44.610	-5.204	MWD+IFR1+MS
20800.000	90.000	179.610	10286.000	89.217	0.000	85.558	-0.000	89.217	0.000	0.000	85.773	44.664	-5.143	MWD+IFR1+MS
20900.000	90.000	179.610	10286.000	89.967	0.000	86.244	-0.000	89.967	0.000	0.000	86.457	44.718	-5.083	MWD+IFR1+MS
21000.000	90.000	179.610	10286.000	90.716	0.000	86.932	-0.000	90.716	0.000	0.000	87.141	44.773	-5.025	MWD+IFR1+MS
21100.000	90.000	179.610	10286.000	91.467	0.000	87.621	-0.000	91.467	0.000	0.000	87.828	44.828	-4.968	MWD+IFR1+MS
21200.000	90.000	179.610	10286.000	92.218	0.000	88.311	-0.000	92.218	0.000	0.000	88.515	44.884	-4.912	MWD+IFR1+MS
21213.684	90.000	179.610	10286.000	92.320	0.000	88.405	-0.000	92.320	0.000	0.000	88.609	44.892	-4.905	MWD+IFR1+MS
21263.267	90.000	179.610	10286.000	92.692	0.000	88.746	-0.000	92.692	0.000	0.000	88.949	44.920	-4.878	MWD+IFR1+MS

Plan Targets

202H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 6	10851.03	440409.80	665127.30	6735.00	RECTANGLE
LTP 6	21213.68	430047.40	665197.90	6735.00	RECTANGLE
BHL 6	21263.80	429997.40	665197.90	6735.00	RECTANGLE

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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
		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 291538

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 291538
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply.	12/8/2023