

Well Name: POKER LAKE UNIT 18 TWR	Well Location: T24S / R31E / SEC 19 / NWNE / 32.209421 / -103.813683	County or Parish/State: EDDY / NM
Well Number: 315H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM025533	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO ENERGY INCORPORATED	

Notice of Intent

Sundry ID: 2755480

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/09/2023	Time Sundry Submitted: 10:32
Date proposed operation will begin: 10/09/2023	

**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 Energy Inc. requests permission to make the following changes to the original APD: SHL: fr/295’FNL & 1636’FEL to 325’FNL & 1711’FEL, Section 19-T24S-R31E NMNM025533 FTP: fr/100’FNL & 440’FEL to 100’FNL & 230’FEL, NMNM025533 LTP: fr/100’FSL & 440’FEL to 100’FSL & 230’FEL, NMNM000506 BHL: fr/50’FSL & 440’FEL to 50’FSL & 230’FEL, Section 30-T24S-R31E NMNM000506 Casing/Cement design: weight fr/23 to 20. Attachments: C102 Drilling Program Directional Plan MBS

NOI Attachments

Procedure Description

PLU\_18\_Twin\_Wells\_Ranch\_315H\_Sundry\_Attachments\_20231009103025.pdf

Received by OCD: 2/21/2025 4:54:24 PM

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Conditions of Approval

Additional

Sec\_19\_24S\_31E\_NMP\_Sundry\_2755480\_Poker\_Lake\_Unit\_18\_TWR\_315H\_COAs\_20231025143619.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: JEAN COOPER  
Signed on: OCT 09, 2023 10:32 AM  
Name: XTO ENERGY INCORPORATED  
Title: Regulatory Analyst  
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5  
City: MIDLAND State: TX  
Phone: (432) 620-6700  
Email address: JEAN.COOPER@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: 10/31/2023  
Signature: Chris Walls

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 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 recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

<b>THE SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved by	Title	Date
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	

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: NWNE / 295 FNL / 1636 FEL / TWSP: 24S / RANGE: 31E / SECTION: 19 / LAT: 32.209421 / LONG: -103.813683 ( TVD: 0 feet, MD: 0 feet )

PPP: NESE / 330 FNL / 440 FEL / TWSP: 24S / RANGE: 31E / SECTION: 19 / LAT: 32.200987 / LONG: -103.814773 ( TVD: 10233 feet, MD: 13400 feet )

PPP: NENE / 330 FNL / 440 FEL / TWSP: 24S / RANGE: 31E / SECTION: 30 / LAT: 32.193728 / LONG: -103.81476 ( TVD: 10233 feet, MD: 16000 feet )

PPP: NENE / 100 FNL / 440 FEL / TWSP: 24S / RANGE: 31E / SECTION: 19 / LAT: 32.209792 / LONG: -103.809818 ( TVD: 10233 feet, MD: 10700 feet )

BHL: SESE / 50 FSL / 440 FEL / TWSP: 24S / RANGE: 31E / SECTION: 30 / LAT: 32.181166 / LONG: -103.809753 ( TVD: 10233 feet, MD: 21101 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	XTO Energy Incorporated
<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 18 TWR 315H
<b>LOCATION:</b>	Sec 19-24S-31E-NMP
<b>COUNTY:</b>	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2755480** on 10/25/2023. Any previous COAs not addressed within the updated COAs still apply.*

COA

<b>H<sub>2</sub>S</b>	<input checked="" type="radio"/> No	<input type="radio"/> Yes		
<b>Potash / WIPP</b>	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P	<input type="checkbox"/> WIPP
<b>Cave / Karst</b>	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High	<input type="radio"/> Critical
<b>Wellhead</b>	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both	<input type="radio"/> Diverter
<b>Cementing</b>	<input type="checkbox"/> Primary Squeeze	<input checked="" type="checkbox"/> Cont. Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> DV Tool
<b>Special Req</b>	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
<b>Variance</b>	<input checked="" type="checkbox"/> Flex Hose	<input type="checkbox"/> Casing Clearance	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Capitan Reef
<b>Variance</b>	<input type="checkbox"/> Four-String	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Fluid-Filled	<input type="checkbox"/> Open Annulus
<input type="checkbox"/> <b>Batch APD / Sundry</b>				

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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 694 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 6813'**
  - 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.

## 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 2<sup>nd</sup> 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

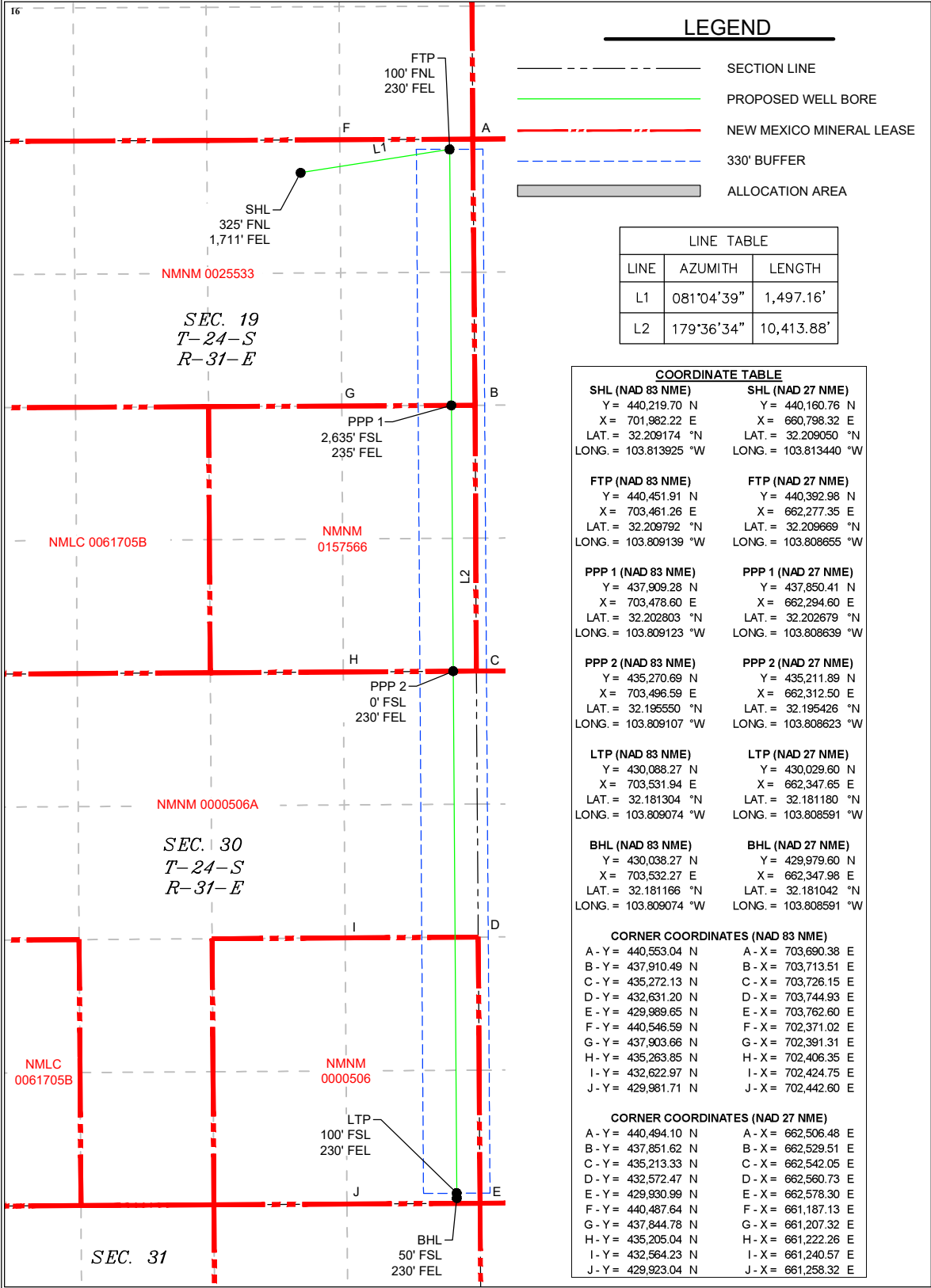
<sup>1</sup> API Number <b>30-015-</b>	<sup>2</sup> Pool Code 97975	<sup>3</sup> Pool Name WC-015 G-06 S243119C; Bone Spring
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>POKER LAKE UNIT 18 TWR</b>	<sup>6</sup> Well Number <b>315H</b>
<sup>7</sup> OGRID No. <b>373075</b>	<sup>8</sup> Operator Name <b>XTO PERMIAN OPERATING, LLC.</b>	<sup>9</sup> Elevation <b>3,500'</b>

<sup>10</sup> Surface Location									
UL or lot no. <b>B</b>	Section <b>19</b>	Township <b>24S</b>	Range <b>31E</b>	Lot Idn	Feet from the <b>325</b>	North/South line <b>NORTH</b>	Feet from the <b>1,711</b>	East/West line <b>EAST</b>	County <b>EDDY</b>

<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. <b>P</b>	Section <b>30</b>	Township <b>24S</b>	Range <b>31E</b>	Lot Idn	Feet from the <b>50</b>	North/South line <b>SOUTH</b>	Feet from the <b>230</b>	East/West line <b>EAST</b>	County <b>EDDY</b>


<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



<sup>17</sup> 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.

 10/8/2023  
Signature Date

Jean A. Cooper  
Printed Name

jean.cooper@exxonmobil.com  
E-mail Address

<sup>18</sup> 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 618.013003.11-06

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

XTO Energy Inc.  
PLU 18 Twin Wells Ranch 315H  
Projected TD: 21107.96' MD / 9990' TVD  
SHL: 325' FNL & 1711' FEL , Section 19, T24S, R31E  
BHL: 50' FSL & 230' FEL , Section 30, 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	594'	Water
Top of Salt	961'	Water
Base of Salt	4070'	Water
Delaware	4302'	Water
Brushy Canyon	6813'	Water/Oil/Gas
Bone Spring	8135'	Water
1st Bone Spring	9129'	Water/Oil/Gas
2nd Bone Spring	9922'	Water/Oil/Gas
<b>Target/Land Curve</b>	<b>9990'</b>	<b>Water/Oil/Gas</b>

\*\*\* 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 @ 694' (267' 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 9369.35' and cemented to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 21107.96 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 9069.35 feet).

**3. Casing Design**

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 694'	9.625	40	J-55	BTC	New	1.36	9.07	22.69
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.20	2.52	2.01
8.75	4000' – 9369.35'	7.625	29.7	HC L-80	Flush Joint	New	1.60	1.96	2.55
6.75	0' – 9269.35'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.84	2.24
6.75	9269.35' - 21107.96'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.71	2.24

- 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 +/- 694'**

Lead: 130 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 +/- 9369.35'**

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

TOC: Brushy Canyon @ 6813

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 (6813') 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 +/- 21107.96'**

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9069.35 feet

Tail: 820 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 9569.35 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 4296 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' - 694'	12.25	FW/Native	8.4-8.9	35-40	NC
694' - 9369.35'	8.75	FW / Cut Brine / Direct Emulsion	10.2-10.7	30-32	NC
9369.35' - 21107.96'	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 165 to 185 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6494 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 - Poker Lake Unit 18 TWR 315H

Measured Depth:	21107.96 ft	Site:	A
TVD RKB:	9983.00 ft	Slot:	Poker Lake Unit 18 TWR 315H
Location			
Cartographic Reference System:	New Mexico East - NAD 27		
Northing:	440160.76 ft		
Easting:	660798.32 ft		
RKB:	3532.00 ft		
Ground Level:	3493.00 ft		
North Reference:	Grid		
Convergence Angle:	0.28 Deg		

Plan Sections		Poker Lake Unit 18 TWR 315H							
Measured			TVD			Build	Turn	Dogleg	
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate	Target
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft)	
0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1207.00	0.00	0.00	0.00	0.00	0.00	
2256.04	21.12	57.25	2239.28	104.12	161.85	2.00	0.00	2.00	
6052.51	21.12	57.25	5780.72	844.28	1312.32	0.00	0.00	0.00	
7108.55	0.00	0.00	6813.00	948.40	1474.17	-2.00	0.00	2.00	
9569.35	0.00	0.00	9273.80	948.40	1474.17	0.00	0.00	0.00	
10694.35	90.00	179.61	9990.00	232.22	1479.03	8.00	0.00	8.00	FTP 6
21057.97	90.00	179.61	9990.00	-10131.16	1549.33	0.00	0.00	0.00	LTP 6
21107.96	90.00	179.61	9990.00	-10181.15	1549.67	0.00	0.00	0.00	BHL 6

Position Uncertainty		Poker Lake Unit 18 TWR 315H							
Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool

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	2.445	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	2.487	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	2.584	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	57.245	1299.980	5.561	0.000	4.661	0.000	2.754	0.000	0.000	5.610	4.604	134.185	MWD+IFR1+MS
1400.000	4.000	57.245	1399.838	6.290	0.000	5.044	0.000	2.818	0.000	0.000	6.305	5.038	-36.487	MWD+IFR1+MS
1500.000	6.000	57.245	1499.452	6.953	0.000	5.425	0.000	2.886	0.000	0.000	6.976	5.424	-31.613	MWD+IFR1+MS
1600.000	8.000	57.245	1598.702	7.568	0.000	5.804	0.000	2.961	0.000	0.000	7.614	5.794	-28.788	MWD+IFR1+MS
1700.000	10.000	57.245	1697.465	8.142	0.000	6.183	0.000	3.046	0.000	0.000	8.219	6.159	-26.981	MWD+IFR1+MS
1800.000	12.000	57.245	1795.623	8.684	0.000	6.562	0.000	3.142	0.000	0.000	8.796	6.522	-25.736	MWD+IFR1+MS
1900.000	14.000	57.245	1893.055	9.199	0.000	6.943	0.000	3.251	0.000	0.000	9.348	6.888	-24.826	MWD+IFR1+MS
2000.000	16.000	57.245	1989.643	9.689	0.000	7.328	0.000	3.375	0.000	0.000	9.879	7.259	-24.127	MWD+IFR1+MS
2100.000	18.000	57.245	2085.268	10.158	0.000	7.718	0.000	3.515	0.000	0.000	10.391	7.636	-23.566	MWD+IFR1+MS
2200.000	20.000	57.245	2179.816	10.609	0.000	8.115	0.000	3.673	0.000	0.000	10.887	8.021	-23.096	MWD+IFR1+MS
2256.039	21.121	57.245	2232.284	10.762	0.000	8.333	0.000	3.733	0.000	0.000	11.075	8.239	-23.055	MWD+IFR1+MS
2300.000	21.121	57.245	2273.292	10.887	0.000	8.503	0.000	3.775	0.000	0.000	11.193	8.412	-23.068	MWD+IFR1+MS
2400.000	21.121	57.245	2366.574	11.176	0.000	8.906	0.000	3.885	0.000	0.000	11.462	8.819	-22.956	MWD+IFR1+MS
2500.000	21.121	57.245	2459.857	11.483	0.000	9.325	0.000	4.003	0.000	0.000	11.748	9.238	-22.666	MWD+IFR1+MS
2600.000	21.121	57.245	2553.139	11.797	0.000	9.748	0.000	4.126	0.000	0.000	12.042	9.662	-22.360	MWD+IFR1+MS
2700.000	21.121	57.245	2646.421	12.120	0.000	10.176	0.000	4.254	0.000	0.000	12.343	10.089	-22.036	MWD+IFR1+MS
2800.000	21.121	57.245	2739.703	12.450	0.000	10.606	0.000	4.387	0.000	0.000	12.650	10.520	-21.690	MWD+IFR1+MS
2900.000	21.121	57.245	2832.986	12.786	0.000	11.040	0.000	4.524	0.000	0.000	12.963	10.955	-21.319	MWD+IFR1+MS

3000.000	21.121	57.245	2926.268	13.129	0.000	11.477	0.000	4.664	0.000	0.000	13.281	11.391	-20.917	MWD+IFR1+MS
3100.000	21.121	57.245	3019.550	13.477	0.000	11.917	0.000	4.808	0.000	0.000	13.605	11.831	-20.481	MWD+IFR1+MS
3200.000	21.121	57.245	3112.833	13.830	0.000	12.358	0.000	4.955	0.000	0.000	13.933	12.272	-20.003	MWD+IFR1+MS
3300.000	21.121	57.245	3206.115	14.189	0.000	12.801	0.000	5.105	0.000	0.000	14.267	12.715	-19.475	MWD+IFR1+MS
3400.000	21.121	57.245	3299.397	14.551	0.000	13.247	0.000	5.257	0.000	0.000	14.604	13.159	-18.888	MWD+IFR1+MS
3500.000	21.121	57.245	3392.680	14.918	0.000	13.693	0.000	5.413	0.000	0.000	14.946	13.605	-18.230	MWD+IFR1+MS
3600.000	21.121	57.245	3485.962	15.289	0.000	14.142	0.000	5.571	0.000	0.000	15.291	14.052	-17.485	MWD+IFR1+MS
3700.000	21.121	57.245	3579.244	15.664	0.000	14.591	0.000	5.731	0.000	0.000	15.640	14.500	-16.633	MWD+IFR1+MS
3800.000	21.121	57.245	3672.526	16.041	0.000	15.042	0.000	5.893	0.000	0.000	15.993	14.949	-15.648	MWD+IFR1+MS
3900.000	21.121	57.245	3765.809	16.422	0.000	15.494	0.000	6.057	0.000	0.000	16.349	15.398	-14.496	MWD+IFR1+MS
4000.000	21.121	57.245	3859.091	16.806	0.000	15.946	0.000	6.224	0.000	0.000	16.709	15.847	-13.134	MWD+IFR1+MS
4100.000	21.121	57.245	3952.373	17.192	0.000	16.400	0.000	6.392	0.000	0.000	17.073	16.296	-11.500	MWD+IFR1+MS
4200.000	21.121	57.245	4045.656	17.581	0.000	16.855	0.000	6.562	0.000	0.000	17.440	16.745	-9.515	MWD+IFR1+MS
4300.000	21.121	57.245	4138.938	17.973	0.000	17.310	0.000	6.734	0.000	0.000	17.812	17.192	-7.072	MWD+IFR1+MS
4400.000	21.121	57.245	4232.220	18.366	0.000	17.766	0.000	6.908	0.000	0.000	18.188	17.638	-4.037	MWD+IFR1+MS
4500.000	21.121	57.245	4325.502	18.762	0.000	18.223	0.000	7.083	0.000	0.000	18.570	18.080	-0.256	MWD+IFR1+MS
4600.000	21.121	57.245	4418.785	19.160	0.000	18.680	0.000	7.260	0.000	0.000	18.959	18.519	4.405	MWD+IFR1+MS
4700.000	21.121	57.245	4512.067	19.559	0.000	19.138	0.000	7.438	0.000	0.000	19.356	18.951	9.965	MWD+IFR1+MS
4800.000	21.121	57.245	4605.349	19.960	0.000	19.597	0.000	7.618	0.000	0.000	19.763	19.375	16.198	MWD+IFR1+MS
4900.000	21.121	57.245	4698.632	20.363	0.000	20.056	0.000	7.800	0.000	0.000	20.181	19.791	22.596	MWD+IFR1+MS
5000.000	21.121	57.245	4791.914	20.767	0.000	20.515	0.000	7.983	0.000	0.000	20.609	20.199	28.572	MWD+IFR1+MS
5100.000	21.121	57.245	4885.196	21.173	0.000	20.975	0.000	8.167	0.000	0.000	21.045	20.600	33.734	MWD+IFR1+MS
5200.000	21.121	57.245	4978.479	21.580	0.000	21.435	0.000	8.353	0.000	0.000	21.488	20.997	37.982	MWD+IFR1+MS
5300.000	21.121	57.245	5071.761	21.988	0.000	21.896	0.000	8.540	0.000	0.000	21.936	21.390	41.401	MWD+IFR1+MS
5400.000	21.121	57.245	5165.043	22.398	0.000	22.357	0.000	8.729	0.000	0.000	22.388	21.781	44.142	MWD+IFR1+MS
5500.000	21.121	57.245	5258.325	22.808	0.000	22.818	0.000	8.919	0.000	0.000	22.842	22.171	46.354	MWD+IFR1+MS
5600.000	21.121	57.245	5351.608	23.220	0.000	23.280	0.000	9.111	0.000	0.000	23.298	22.561	48.157	MWD+IFR1+MS
5700.000	21.121	57.245	5444.890	23.633	0.000	23.742	0.000	9.304	0.000	0.000	23.755	22.950	49.647	MWD+IFR1+MS
5800.000	21.121	57.245	5538.172	24.047	0.000	24.204	0.000	9.498	0.000	0.000	24.214	23.339	50.892	MWD+IFR1+MS
5900.000	21.121	57.245	5631.455	24.461	0.000	24.666	0.000	9.694	0.000	0.000	24.674	23.729	51.946	MWD+IFR1+MS
6000.000	21.121	57.245	5724.737	24.877	0.000	25.129	0.000	9.891	0.000	0.000	25.135	24.119	52.848	MWD+IFR1+MS
6052.506	21.121	57.245	5773.716	25.093	0.000	25.369	0.000	9.995	0.000	0.000	25.374	24.322	53.402	MWD+IFR1+MS
6100.000	20.171	57.245	5818.159	25.321	0.000	25.584	0.000	10.089	0.000	0.000	25.588	24.506	53.859	MWD+IFR1+MS

6200.000	18.171	57.245	5912.608	25.825	0.000	26.027	0.000	10.295	0.000	0.000	26.031	24.937	53.940	MWD+IFR1+MS
6300.000	16.171	57.245	6008.146	26.336	0.000	26.457	0.000	10.500	0.000	0.000	26.462	25.406	53.184	MWD+IFR1+MS
6400.000	14.171	57.245	6104.657	26.805	0.000	26.869	0.000	10.689	0.000	0.000	26.877	25.867	52.292	MWD+IFR1+MS
6500.000	12.171	57.245	6202.021	27.231	0.000	27.265	0.000	10.864	0.000	0.000	27.275	26.320	51.226	MWD+IFR1+MS
6600.000	10.171	57.245	6300.121	27.613	0.000	27.644	0.000	11.027	0.000	0.000	27.659	26.763	49.938	MWD+IFR1+MS
6700.000	8.171	57.245	6398.838	27.951	0.000	28.007	0.000	11.179	0.000	0.000	28.027	27.194	48.367	MWD+IFR1+MS
6800.000	6.171	57.245	6498.051	28.246	0.000	28.355	0.000	11.321	0.000	0.000	28.381	27.613	46.439	MWD+IFR1+MS
6900.000	4.171	57.245	6597.639	28.497	0.000	28.687	0.000	11.454	0.000	0.000	28.723	28.018	44.069	MWD+IFR1+MS
7000.000	2.171	57.245	6697.481	28.704	0.000	29.005	0.000	11.581	0.000	0.000	29.054	28.407	41.171	MWD+IFR1+MS
7108.545	0.000	0.000	6806.000	29.075	0.000	29.131	0.000	11.712	0.000	0.000	29.375	28.829	42.045	MWD+IFR1+MS
7200.000	0.000	0.000	6897.455	29.383	0.000	29.394	0.000	11.822	0.000	0.000	29.648	29.126	44.375	MWD+IFR1+MS
7300.000	0.000	0.000	6997.455	29.688	0.000	29.683	0.000	11.944	0.000	0.000	29.943	29.426	45.315	MWD+IFR1+MS
7400.000	0.000	0.000	7097.455	29.996	0.000	29.973	0.000	12.069	0.000	0.000	30.239	29.728	46.258	MWD+IFR1+MS
7500.000	0.000	0.000	7197.455	30.304	0.000	30.266	0.000	12.198	0.000	0.000	30.537	30.031	47.201	MWD+IFR1+MS
7600.000	0.000	0.000	7297.455	30.614	0.000	30.559	0.000	12.329	0.000	0.000	30.836	30.335	48.144	MWD+IFR1+MS
7700.000	0.000	0.000	7397.455	30.925	0.000	30.854	0.000	12.463	0.000	0.000	31.137	30.640	49.083	MWD+IFR1+MS
7800.000	0.000	0.000	7497.455	31.236	0.000	31.150	0.000	12.601	0.000	0.000	31.440	30.945	50.017	MWD+IFR1+MS
7900.000	0.000	0.000	7597.455	31.549	0.000	31.448	0.000	12.741	0.000	0.000	31.744	31.252	50.944	MWD+IFR1+MS
8000.000	0.000	0.000	7697.455	31.863	0.000	31.747	0.000	12.885	0.000	0.000	32.049	31.559	51.863	MWD+IFR1+MS
8100.000	0.000	0.000	7797.455	32.177	0.000	32.047	0.000	13.032	0.000	0.000	32.355	31.867	52.770	MWD+IFR1+MS
8200.000	0.000	0.000	7897.455	32.493	0.000	32.348	0.000	13.182	0.000	0.000	32.663	32.176	53.666	MWD+IFR1+MS
8300.000	0.000	0.000	7997.455	32.809	0.000	32.650	0.000	13.335	0.000	0.000	32.972	32.486	54.548	MWD+IFR1+MS
8400.000	0.000	0.000	8097.455	33.127	0.000	32.954	0.000	13.492	0.000	0.000	33.283	32.796	55.415	MWD+IFR1+MS
8500.000	0.000	0.000	8197.455	33.445	0.000	33.258	0.000	13.651	0.000	0.000	33.594	33.108	56.265	MWD+IFR1+MS
8600.000	0.000	0.000	8297.455	33.764	0.000	33.564	0.000	13.814	0.000	0.000	33.907	33.420	57.099	MWD+IFR1+MS
8700.000	0.000	0.000	8397.455	34.083	0.000	33.871	0.000	13.981	0.000	0.000	34.220	33.732	57.914	MWD+IFR1+MS
8800.000	0.000	0.000	8497.455	34.404	0.000	34.178	0.000	14.150	0.000	0.000	34.535	34.046	58.711	MWD+IFR1+MS
8900.000	0.000	0.000	8597.455	34.725	0.000	34.487	0.000	14.323	0.000	0.000	34.851	34.360	59.489	MWD+IFR1+MS
9000.000	0.000	0.000	8697.455	35.047	0.000	34.797	0.000	14.499	0.000	0.000	35.168	34.675	60.247	MWD+IFR1+MS
9100.000	0.000	0.000	8797.455	35.370	0.000	35.107	0.000	14.679	0.000	0.000	35.485	34.990	60.985	MWD+IFR1+MS
9200.000	0.000	0.000	8897.455	35.693	0.000	35.419	0.000	14.862	0.000	0.000	35.804	35.306	61.702	MWD+IFR1+MS
9300.000	0.000	0.000	8997.455	36.017	0.000	35.731	0.000	15.048	0.000	0.000	36.124	35.623	62.400	MWD+IFR1+MS
9400.000	0.000	0.000	9097.455	36.341	0.000	36.044	0.000	15.238	0.000	0.000	36.444	35.941	63.077	MWD+IFR1+MS



9500.000	0.000	0.000	9197.455	36.667	0.000	36.358	0.000	15.431	0.000	0.000	36.765	36.259	63.735	MWD+IFR1+MS
9569.348	0.000	0.000	9266.803	36.891	0.000	36.575	0.000	15.567	0.000	0.000	36.988	36.477	64.060	MWD+IFR1+MS
9600.000	2.452	179.611	9297.445	36.809	0.000	36.664	-0.000	15.627	0.000	0.000	37.083	36.567	64.087	MWD+IFR1+MS
9700.000	10.452	179.611	9396.731	36.619	0.000	36.941	-0.000	15.845	0.000	0.000	37.771	36.904	77.784	MWD+IFR1+MS
9800.000	18.452	179.611	9493.488	36.537	0.000	37.199	-0.000	16.200	0.000	0.000	39.028	37.192	86.133	MWD+IFR1+MS
9900.000	26.452	179.611	9585.833	35.943	0.000	37.434	-0.000	16.766	0.000	0.000	40.147	37.433	88.419	MWD+IFR1+MS
10000.000	34.452	179.611	9671.968	34.922	0.000	37.644	-0.000	17.596	0.000	0.000	41.088	37.644	89.481	MWD+IFR1+MS
10100.000	42.452	179.611	9750.218	33.585	0.000	37.829	-0.000	18.704	0.000	0.000	41.841	37.828	90.144	MWD+IFR1+MS
10200.000	50.452	179.611	9819.058	32.079	0.000	37.989	-0.000	20.070	0.000	0.000	42.409	37.987	90.669	MWD+IFR1+MS
10300.000	58.452	179.611	9877.149	30.581	0.000	38.126	-0.000	21.647	0.000	0.000	42.805	38.122	91.173	MWD+IFR1+MS
10400.000	66.452	179.611	9923.360	29.301	0.000	38.240	-0.000	23.374	0.000	0.000	43.050	38.233	91.725	MWD+IFR1+MS
10500.000	74.452	179.611	9956.792	28.456	0.000	38.332	-0.000	25.185	0.000	0.000	43.176	38.320	92.366	MWD+IFR1+MS
10600.000	82.452	179.611	9976.795	28.237	0.000	38.403	-0.000	27.015	0.000	0.000	43.224	38.384	93.114	MWD+IFR1+MS
10694.348	90.000	179.611	9983.000	28.550	0.000	38.449	-0.000	28.550	0.000	0.000	43.236	38.420	93.902	MWD+IFR1+MS
10700.000	90.000	179.611	9983.000	28.565	0.000	38.450	-0.000	28.565	0.000	0.000	43.237	38.421	93.950	MWD+IFR1+MS
10800.000	90.000	179.611	9983.000	28.826	0.000	38.497	-0.000	28.826	0.000	0.000	43.250	38.455	94.831	MWD+IFR1+MS
10900.000	90.000	179.611	9983.000	29.109	0.000	38.568	-0.000	29.109	0.000	0.000	43.265	38.510	95.746	MWD+IFR1+MS
11000.000	90.000	179.611	9983.000	29.411	0.000	38.658	-0.000	29.411	0.000	0.000	43.283	38.582	96.701	MWD+IFR1+MS
11100.000	90.000	179.611	9983.000	29.731	0.000	38.768	-0.000	29.731	0.000	0.000	43.305	38.671	97.707	MWD+IFR1+MS
11200.000	90.000	179.611	9983.000	30.067	0.000	38.898	-0.000	30.067	0.000	0.000	43.331	38.776	98.774	MWD+IFR1+MS
11300.000	90.000	179.611	9983.000	30.420	0.000	39.047	-0.000	30.420	0.000	0.000	43.361	38.897	99.914	MWD+IFR1+MS
11400.000	90.000	179.611	9983.000	30.789	0.000	39.216	-0.000	30.789	0.000	0.000	43.395	39.032	101.143	MWD+IFR1+MS
11500.000	90.000	179.611	9983.000	31.174	0.000	39.403	-0.000	31.174	0.000	0.000	43.435	39.182	102.475	MWD+IFR1+MS
11600.000	90.000	179.611	9983.000	31.573	0.000	39.609	-0.000	31.573	0.000	0.000	43.480	39.344	103.928	MWD+IFR1+MS
11700.000	90.000	179.611	9983.000	31.986	0.000	39.834	-0.000	31.986	0.000	0.000	43.533	39.518	105.522	MWD+IFR1+MS
11800.000	90.000	179.611	9983.000	32.414	0.000	40.076	-0.000	32.414	0.000	0.000	43.594	39.702	107.276	MWD+IFR1+MS
11900.000	90.000	179.611	9983.000	32.854	0.000	40.337	-0.000	32.854	0.000	0.000	43.665	39.895	109.212	MWD+IFR1+MS
12000.000	90.000	179.611	9983.000	33.307	0.000	40.615	-0.000	33.307	0.000	0.000	43.748	40.094	111.351	MWD+IFR1+MS
12100.000	90.000	179.611	9983.000	33.773	0.000	40.910	-0.000	33.773	0.000	0.000	43.843	40.297	113.709	MWD+IFR1+MS
12200.000	90.000	179.611	9983.000	34.250	0.000	41.221	-0.000	34.250	0.000	0.000	43.955	40.501	116.297	MWD+IFR1+MS
12300.000	90.000	179.611	9983.000	34.738	0.000	41.549	-0.000	34.738	0.000	0.000	44.085	40.704	119.112	MWD+IFR1+MS
12400.000	90.000	179.611	9983.000	35.237	0.000	41.893	-0.000	35.237	0.000	0.000	44.236	40.902	122.136	MWD+IFR1+MS
12500.000	90.000	179.611	9983.000	35.746	0.000	42.252	-0.000	35.746	0.000	0.000	44.411	41.092	125.329	MWD+IFR1+MS



12600.000	90.000	179.611	9983.000	36.265	0.000	42.627	-0.000	36.265	0.000	0.000	44.612	41.271	128.632	MWD+IFR1+MS
12700.000	90.000	179.611	9983.000	36.793	0.000	43.016	-0.000	36.793	0.000	0.000	44.841	41.438	131.970	MWD+IFR1+MS
12800.000	90.000	179.611	9983.000	37.330	0.000	43.420	-0.000	37.330	0.000	0.000	45.099	41.591	-44.740	MWD+IFR1+MS
12900.000	90.000	179.611	9983.000	37.876	0.000	43.838	-0.000	37.876	0.000	0.000	45.385	41.730	-41.571	MWD+IFR1+MS
13000.000	90.000	179.611	9983.000	38.431	0.000	44.269	-0.000	38.431	0.000	0.000	45.700	41.854	-38.583	MWD+IFR1+MS
13100.000	90.000	179.611	9983.000	38.993	0.000	44.713	-0.000	38.993	0.000	0.000	46.042	41.965	-35.815	MWD+IFR1+MS
13200.000	90.000	179.611	9983.000	39.563	0.000	45.171	-0.000	39.563	0.000	0.000	46.409	42.064	-33.284	MWD+IFR1+MS
13300.000	90.000	179.611	9983.000	40.140	0.000	45.640	-0.000	40.140	0.000	0.000	46.799	42.153	-30.992	MWD+IFR1+MS
13400.000	90.000	179.611	9983.000	40.724	0.000	46.122	-0.000	40.724	0.000	0.000	47.211	42.232	-28.930	MWD+IFR1+MS
13500.000	90.000	179.611	9983.000	41.315	0.000	46.615	-0.000	41.315	0.000	0.000	47.644	42.304	-27.080	MWD+IFR1+MS
13600.000	90.000	179.611	9983.000	41.912	0.000	47.120	-0.000	41.912	0.000	0.000	48.094	42.369	-25.422	MWD+IFR1+MS
13700.000	90.000	179.611	9983.000	42.515	0.000	47.636	-0.000	42.515	0.000	0.000	48.562	42.428	-23.937	MWD+IFR1+MS
13800.000	90.000	179.611	9983.000	43.124	0.000	48.162	-0.000	43.124	0.000	0.000	49.045	42.483	-22.603	MWD+IFR1+MS
13900.000	90.000	179.611	9983.000	43.738	0.000	48.698	-0.000	43.738	0.000	0.000	49.543	42.534	-21.403	MWD+IFR1+MS
14000.000	90.000	179.611	9983.000	44.358	0.000	49.245	-0.000	44.358	0.000	0.000	50.055	42.581	-20.321	MWD+IFR1+MS
14100.000	90.000	179.611	9983.000	44.983	0.000	49.801	-0.000	44.983	0.000	0.000	50.580	42.626	-19.341	MWD+IFR1+MS
14200.000	90.000	179.611	9983.000	45.613	0.000	50.366	-0.000	45.613	0.000	0.000	51.116	42.669	-18.451	MWD+IFR1+MS
14300.000	90.000	179.611	9983.000	46.248	0.000	50.940	-0.000	46.248	0.000	0.000	51.664	42.709	-17.640	MWD+IFR1+MS
14400.000	90.000	179.611	9983.000	46.887	0.000	51.523	-0.000	46.887	0.000	0.000	52.223	42.749	-16.900	MWD+IFR1+MS
14500.000	90.000	179.611	9983.000	47.531	0.000	52.114	-0.000	47.531	0.000	0.000	52.792	42.786	-16.220	MWD+IFR1+MS
14600.000	90.000	179.611	9983.000	48.179	0.000	52.713	-0.000	48.179	0.000	0.000	53.371	42.823	-15.596	MWD+IFR1+MS
14700.000	90.000	179.611	9983.000	48.831	0.000	53.320	-0.000	48.831	0.000	0.000	53.959	42.859	-15.019	MWD+IFR1+MS
14800.000	90.000	179.611	9983.000	49.487	0.000	53.935	-0.000	49.487	0.000	0.000	54.556	42.894	-14.486	MWD+IFR1+MS
14900.000	90.000	179.611	9983.000	50.146	0.000	54.556	-0.000	50.146	0.000	0.000	55.161	42.928	-13.992	MWD+IFR1+MS
15000.000	90.000	179.611	9983.000	50.809	0.000	55.185	-0.000	50.809	0.000	0.000	55.775	42.962	-13.532	MWD+IFR1+MS
15100.000	90.000	179.611	9983.000	51.475	0.000	55.821	-0.000	51.475	0.000	0.000	56.396	42.996	-13.104	MWD+IFR1+MS
15200.000	90.000	179.611	9983.000	52.145	0.000	56.463	-0.000	52.145	0.000	0.000	57.025	43.029	-12.703	MWD+IFR1+MS
15300.000	90.000	179.611	9983.000	52.818	0.000	57.112	-0.000	52.818	0.000	0.000	57.660	43.063	-12.328	MWD+IFR1+MS
15400.000	90.000	179.611	9983.000	53.494	0.000	57.767	-0.000	53.494	0.000	0.000	58.303	43.096	-11.977	MWD+IFR1+MS
15500.000	90.000	179.611	9983.000	54.173	0.000	58.428	-0.000	54.173	0.000	0.000	58.952	43.129	-11.646	MWD+IFR1+MS
15600.000	90.000	179.611	9983.000	54.855	0.000	59.094	-0.000	54.855	0.000	0.000	59.607	43.162	-11.334	MWD+IFR1+MS
15700.000	90.000	179.611	9983.000	55.539	0.000	59.766	-0.000	55.539	0.000	0.000	60.269	43.195	-11.040	MWD+IFR1+MS
15800.000	90.000	179.611	9983.000	56.226	0.000	60.444	-0.000	56.226	0.000	0.000	60.936	43.228	-10.763	MWD+IFR1+MS

15900.000	90.000	179.611	9983.000	56.916	0.000	61.126	-0.000	56.916	0.000	0.000	61.609	43.261	-10.500	MWD+IFR1+MS
16000.000	90.000	179.611	9983.000	57.608	0.000	61.814	-0.000	57.608	0.000	0.000	62.288	43.294	-10.250	MWD+IFR1+MS
16100.000	90.000	179.611	9983.000	58.302	0.000	62.506	-0.000	58.302	0.000	0.000	62.971	43.328	-10.013	MWD+IFR1+MS
16200.000	90.000	179.611	9983.000	58.999	0.000	63.203	-0.000	58.999	0.000	0.000	63.660	43.361	-9.788	MWD+IFR1+MS
16300.000	90.000	179.611	9983.000	59.697	0.000	63.905	-0.000	59.697	0.000	0.000	64.353	43.395	-9.574	MWD+IFR1+MS
16400.000	90.000	179.611	9983.000	60.398	0.000	64.611	-0.000	60.398	0.000	0.000	65.052	43.429	-9.370	MWD+IFR1+MS
16500.000	90.000	179.611	9983.000	61.101	0.000	65.321	-0.000	61.101	0.000	0.000	65.754	43.463	-9.175	MWD+IFR1+MS
16600.000	90.000	179.611	9983.000	61.806	0.000	66.035	-0.000	61.806	0.000	0.000	66.461	43.498	-8.988	MWD+IFR1+MS
16700.000	90.000	179.611	9983.000	62.513	0.000	66.754	-0.000	62.513	0.000	0.000	67.173	43.533	-8.810	MWD+IFR1+MS
16800.000	90.000	179.611	9983.000	63.222	0.000	67.476	-0.000	63.222	0.000	0.000	67.888	43.568	-8.640	MWD+IFR1+MS
16900.000	90.000	179.611	9983.000	63.932	0.000	68.202	-0.000	63.932	0.000	0.000	68.608	43.604	-8.476	MWD+IFR1+MS
17000.000	90.000	179.611	9983.000	64.644	0.000	68.931	-0.000	64.644	0.000	0.000	69.331	43.639	-8.319	MWD+IFR1+MS
17100.000	90.000	179.611	9983.000	65.358	0.000	69.664	-0.000	65.358	0.000	0.000	70.058	43.676	-8.169	MWD+IFR1+MS
17200.000	90.000	179.611	9983.000	66.074	0.000	70.401	-0.000	66.074	0.000	0.000	70.788	43.712	-8.024	MWD+IFR1+MS
17300.000	90.000	179.611	9983.000	66.791	0.000	71.140	-0.000	66.791	0.000	0.000	71.522	43.749	-7.885	MWD+IFR1+MS
17400.000	90.000	179.611	9983.000	67.509	0.000	71.883	-0.000	67.509	0.000	0.000	72.260	43.786	-7.751	MWD+IFR1+MS
17500.000	90.000	179.611	9983.000	68.229	0.000	72.629	-0.000	68.229	0.000	0.000	73.000	43.824	-7.622	MWD+IFR1+MS
17600.000	90.000	179.611	9983.000	68.950	0.000	73.378	-0.000	68.950	0.000	0.000	73.744	43.862	-7.498	MWD+IFR1+MS
17700.000	90.000	179.611	9983.000	69.673	0.000	74.130	-0.000	69.673	0.000	0.000	74.491	43.900	-7.378	MWD+IFR1+MS
17800.000	90.000	179.611	9983.000	70.397	0.000	74.884	-0.000	70.397	0.000	0.000	75.240	43.939	-7.262	MWD+IFR1+MS
17900.000	90.000	179.611	9983.000	71.123	0.000	75.642	-0.000	71.123	0.000	0.000	75.993	43.978	-7.150	MWD+IFR1+MS
18000.000	90.000	179.611	9983.000	71.849	0.000	76.402	-0.000	71.849	0.000	0.000	76.748	44.017	-7.042	MWD+IFR1+MS
18100.000	90.000	179.611	9983.000	72.577	0.000	77.164	-0.000	72.577	0.000	0.000	77.506	44.057	-6.937	MWD+IFR1+MS
18200.000	90.000	179.611	9983.000	73.306	0.000	77.929	-0.000	73.306	0.000	0.000	78.267	44.097	-6.836	MWD+IFR1+MS
18300.000	90.000	179.611	9983.000	74.036	0.000	78.697	-0.000	74.036	0.000	0.000	79.030	44.138	-6.738	MWD+IFR1+MS
18400.000	90.000	179.611	9983.000	74.768	0.000	79.467	-0.000	74.768	0.000	0.000	79.796	44.179	-6.643	MWD+IFR1+MS
18500.000	90.000	179.611	9983.000	75.500	0.000	80.239	-0.000	75.500	0.000	0.000	80.564	44.220	-6.551	MWD+IFR1+MS
18600.000	90.000	179.611	9983.000	76.233	0.000	81.013	-0.000	76.233	0.000	0.000	81.334	44.262	-6.462	MWD+IFR1+MS
18700.000	90.000	179.611	9983.000	76.968	0.000	81.789	-0.000	76.968	0.000	0.000	82.106	44.304	-6.375	MWD+IFR1+MS
18800.000	90.000	179.611	9983.000	77.703	0.000	82.568	-0.000	77.703	0.000	0.000	82.881	44.347	-6.291	MWD+IFR1+MS
18900.000	90.000	179.611	9983.000	78.439	0.000	83.348	-0.000	78.439	0.000	0.000	83.658	44.390	-6.209	MWD+IFR1+MS
19000.000	90.000	179.611	9983.000	79.177	0.000	84.131	-0.000	79.177	0.000	0.000	84.437	44.433	-6.130	MWD+IFR1+MS
19100.000	90.000	179.611	9983.000	79.915	0.000	84.915	-0.000	79.915	0.000	0.000	85.218	44.477	-6.053	MWD+IFR1+MS

19200.000	90.000	179.611	9983.000	80.654	0.000	85.702	-0.000	80.654	0.000	0.000	86.001	44.521	-5.978	MWD+IFR1+MS
19300.000	90.000	179.611	9983.000	81.394	0.000	86.490	-0.000	81.394	0.000	0.000	86.786	44.566	-5.905	MWD+IFR1+MS
19400.000	90.000	179.611	9983.000	82.134	0.000	87.280	-0.000	82.134	0.000	0.000	87.572	44.611	-5.834	MWD+IFR1+MS
19500.000	90.000	179.611	9983.000	82.876	0.000	88.071	-0.000	82.876	0.000	0.000	88.361	44.657	-5.764	MWD+IFR1+MS
19600.000	90.000	179.611	9983.000	83.618	0.000	88.865	-0.000	83.618	0.000	0.000	89.151	44.703	-5.697	MWD+IFR1+MS
19700.000	90.000	179.611	9983.000	84.361	0.000	89.660	-0.000	84.361	0.000	0.000	89.943	44.749	-5.631	MWD+IFR1+MS
19800.000	90.000	179.611	9983.000	85.105	0.000	90.456	-0.000	85.105	0.000	0.000	90.736	44.796	-5.567	MWD+IFR1+MS
19900.000	90.000	179.611	9983.000	85.850	0.000	91.254	-0.000	85.850	0.000	0.000	91.531	44.843	-5.505	MWD+IFR1+MS
20000.000	90.000	179.611	9983.000	86.595	0.000	92.054	-0.000	86.595	0.000	0.000	92.328	44.891	-5.444	MWD+IFR1+MS
20100.000	90.000	179.611	9983.000	87.341	0.000	92.855	-0.000	87.341	0.000	0.000	93.126	44.939	-5.385	MWD+IFR1+MS
20200.000	90.000	179.611	9983.000	88.088	0.000	93.657	-0.000	88.088	0.000	0.000	93.926	44.987	-5.327	MWD+IFR1+MS
20300.000	90.000	179.611	9983.000	88.835	0.000	94.461	-0.000	88.835	0.000	0.000	94.727	45.036	-5.270	MWD+IFR1+MS
20400.000	90.000	179.611	9983.000	89.583	0.000	95.266	-0.000	89.583	0.000	0.000	95.530	45.085	-5.215	MWD+IFR1+MS
20500.000	90.000	179.611	9983.000	90.332	0.000	96.073	-0.000	90.332	0.000	0.000	96.334	45.135	-5.161	MWD+IFR1+MS
20600.000	90.000	179.611	9983.000	91.081	0.000	96.881	-0.000	91.081	0.000	0.000	97.139	45.185	-5.108	MWD+IFR1+MS
20700.000	90.000	179.611	9983.000	91.831	0.000	97.690	-0.000	91.831	0.000	0.000	97.945	45.235	-5.057	MWD+IFR1+MS
20800.000	90.000	179.611	9983.000	92.581	0.000	98.500	-0.000	92.581	0.000	0.000	98.753	45.286	-5.006	MWD+IFR1+MS
20900.000	90.000	179.611	9983.000	93.332	0.000	99.312	-0.000	93.332	0.000	0.000	99.562	45.337	-4.957	MWD+IFR1+MS
21000.000	90.000	179.611	9983.000	94.083	0.000	100.125	-0.000	94.083	0.000	0.000	100.373	45.389	-4.909	MWD+IFR1+MS
21057.966	90.000	179.611	9983.000	94.519	0.000	100.595	-0.000	94.519	0.000	0.000	100.842	45.419	-4.881	MWD+IFR1+MS
21107.957	90.000	179.611	9983.000	94.894	0.000	101.000	-0.000	94.894	0.000	0.000	101.246	45.445	-4.858	MWD+IFR1+MS

## Plan Targets

Poker Lake Unit 18 TWR 315H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 6	10701.35	440392.98	662277.35	6458.00	RECTANGLE
LTP 6	21064.97	430029.60	662347.65	6458.00	RECTANGLE
BHL 6	21114.96	429979.60	662347.98	6458.00	RECTANGLE



ALL DIMENSIONS APPROXIMATE			
CACTUS WELLHEAD LLC			
XTO ENERGY INC DELAWARE BASIN			
20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers		DRAWN	VJK
		APPRV	31MAR22
		DRAWING NO. HBE0000479	

Sante Fe Main Office  
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Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 434336

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  434336
	Action Type:  [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	NSL not required due to the boundary being interior to the Poker Lake Unit.	5/8/2025
dmcclure	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	5/8/2025