

Well Name: POKER LAKE UNIT 20 DTD	Well Location: T24S / R30E / SEC 20 / NWNW / 32.208111 / -103.909318	County or Parish/State: EDDY / NM
Well Number: 111H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM02860	Unit or CA Name: POKER LAKE UNIT	Unit or CA Number: NMNM71016X
US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Notice of Intent

Sundry ID: 2776538

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 02/23/2024	Time Sundry Submitted: 01:23
Date proposed operation will begin: 07/09/2024	

**Procedure Description:** XTO Permian Operating LLC Respectfully submits a NOI to Change APD for the above well. We are changing the following for the well: Casing design, cement design, SHL, FTP, LTP, BHL, and proposed total depth. SHL: F/ 824' FNL & 890' FWL Sec 20, T-24S, R-30E TO: 939' FNL & 1260' FWL Sec 20, T-24S, R-30E FTP: F/ 100' FSL & 1110' FWL TO: 100' FNL & 332' FWL PPP: F/ TO: 0' FSL & 308' FWL LTP: F/ 1830' FNL & 1110' FWL TO: 2578' FNL & 332' FWL BHL: F/ 1830' FNL & 1110' FWL Sec 8, T-24S, R-30E TO: 2629' FNL & 332' FWL Sec 5, T-25S, R-30E Proposed TD: F/ 18,338' MD; 9220' TVD (Bone Springs) TO: 28,299' MD; 10018' TVD (Bone Springs) Attachments: C-102 Drilling Plan Directional Plan MBS Diagram

NOI Attachments

Procedure Description

Poker\_Lake\_Unit\_20\_DTD\_111H\_Attachments\_20240223131811.pdf

Received by OCD: 6/21/2024 6:52:41 AM

Page 2 of 32

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US Well Number:	Operator: XTO PERMIAN OPERATING LLC	

Conditions of Approval

Additional

Sec\_20\_24S\_30E\_NMP\_Sundry\_2776538\_Poker\_Lake\_Unit\_20\_DTD\_111H\_COAs\_20240404152002.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: SAMANTHA WEIS  
Signed on: FEB 23, 2024 01:22 PM  
Name: XTO PERMIAN OPERATING LLC  
Title: Permitting Advisor  
Street Address: 22777 SPRINGWOODS VILLAGE PARKWAY  
City: SPRING State: TX  
Phone: (832) 625-7361  
Email address: SAMANTHA.R.BARTNIK@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: 06/20/2024  
Signature: Chris Walls

Form 3160-5  
(June 2019)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No. NMNM02860

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well  
☒ Oil Well    ☐ Gas Well    ☐ Other

2. Name of Operator XTO PERMIAN OPERATING LLC

3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, 3b. Phone No. (include area code) (432) 683-2277

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 20/T24S/R30E/NMP

7. If Unit of CA/Agreement, Name and/or No. POKER LAKE UNIT/NMNM71016X

8. Well Name and No. POKER LAKE UNIT 20 DTD/111H

9. API Well No.

10. Field and Pool or Exploratory Area Wildcat/Bone Spring

11. Country or Parish, State EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<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 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 recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

XTO Permian Operating LLC Respectfully submits a NOI to Change APD for the above well.

We are changing the following for the well: Casing design, cement design, SHL, FTP, LTP, BHL, and proposed total depth.

SHL: F/ 824 FNL & 890 FWL Sec 20, T-24S, R-30E TO: 939 FNL & 1260 FWL Sec 20, T-24S, R-30E

FTP: F/ 100 FSL & 1110 FWL TO: 100 FNL & 332 FWL

PPP: F/ TO: 0 FSL & 308 FWL

LTP: F/ 1830 FNL & 1110 FWL TO: 2578 FNL & 332 FWL

BHL: F/ 1830 FNL & 1110 FWL Sec 8, T-24S, R-30E TO: 2629 FNL & 332 FWL Sec 5, T-25S, R-30E

Proposed TD: F/ 18,338 MD; 9220 TVD (Bone Springs) TO: 28,299 MD; 10018 TVD (Bone Springs)

Attachments:  
C-102

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) SAMANTHA WEIS / Ph: (832) 625-7361

Permitting Advisor

Signature (Electronic Submission)

Date 02/23/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

Petroleum Engineer

Date 06/20/2024

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

Office CARLSBAD

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

## 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

Drilling Plan

Directional Plan

MBS Diagram

### Location of Well

0. SHL: NWNW / 824 FNL / 890 FWL / TWSP: 24S / RANGE: 30E / SECTION: 20 / LAT: 32.208111 / LONG: -103.909318 ( TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 100 FSL / 1110 FWL / TWSP: 24S / RANGE: 30E / SECTION: 17 / LAT: 32.210655 / LONG: -103.908622 ( TVD: 9220 feet, MD: 9600 feet )

BHL: SWNW / 1830 FNL / 1110 FWL / TWSP: 24S / RANGE: 30E / SECTION: 8 / LAT: 32.234786 / LONG: -103.908573 ( TVD: 9220 feet, MD: 18338 feet )

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	XTO Permian Operating LLC
<b>WELL NAME &amp; NO.:</b>	Poker Lake Unit 20 111H
<b>LOCATION:</b>	Sec 20-24S-30E-NMP
<b>COUNTY:</b>	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2776538** on 04/04/2024. 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 checked="" type="radio"/> Low	<input 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 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 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 700 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. ***Set depth adjusted per BLM geologist.***
  - 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 **9-5/8** inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. **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.**

**Operator has proposed to pump down 13-3/8" X 9-5/8" annulus after primary cementing stage. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to the BLM.**

**If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.**

3. The minimum required fill of cement behind the **6** 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 (API No. / US Well No. contains 30-015-#####)**

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
BLM NM CFO DrillingNotifications@blm.gov; (575) 361-2822



**Lea County (API No. / US Well No. contains 30-025-#####)**

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

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

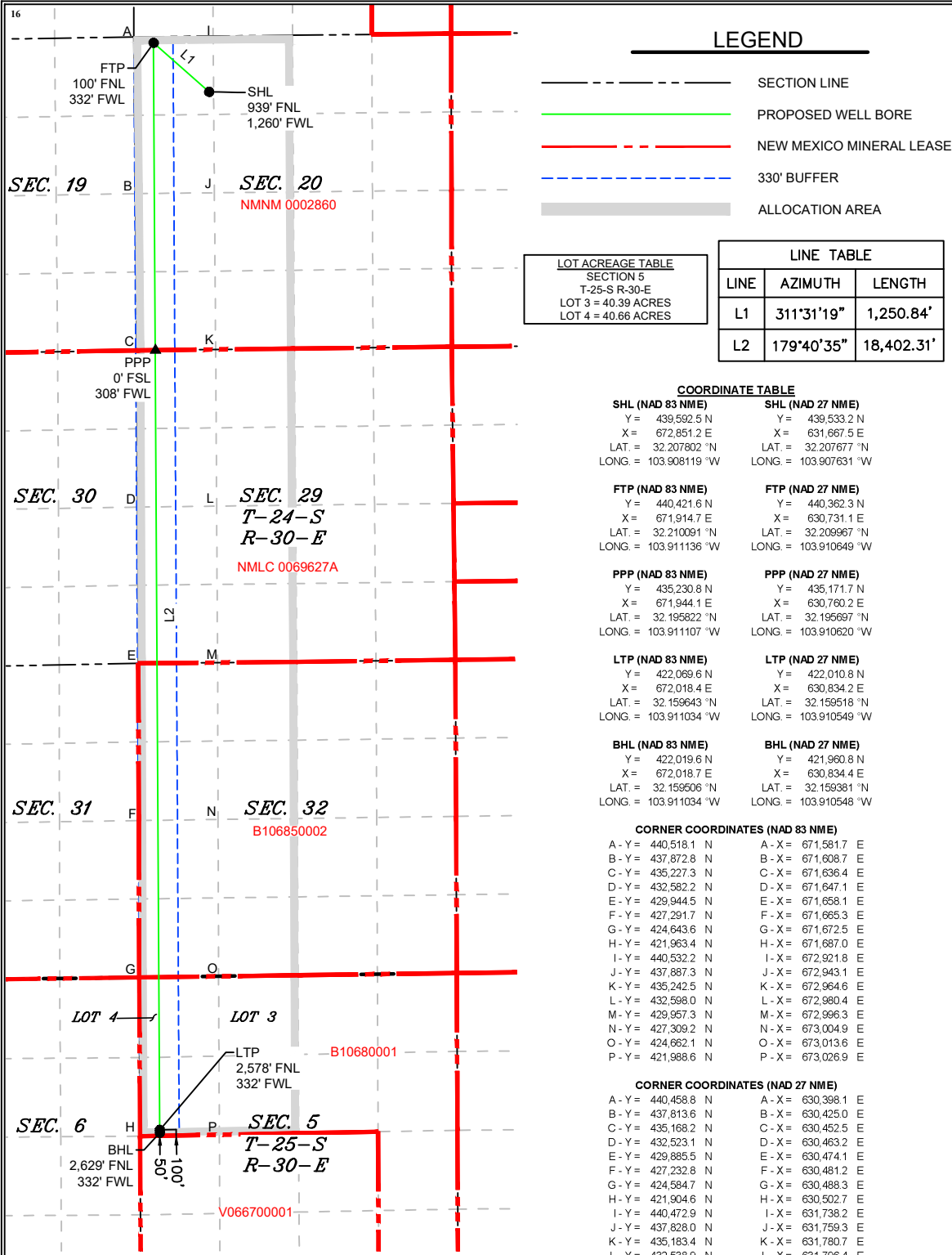
State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☒ **AMENDED REPORT**  
APD ID #: 10400089441

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-</b>		<sup>2</sup> Pool Code <b>97814</b>		<sup>3</sup> Pool Name <b>Wildcat; Bone Springs</b>					
<sup>4</sup> Property Code		<sup>5</sup> Property Name <b>POKER LAKE UNIT 20 DTD</b>						<sup>6</sup> Well Number <b>111H</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>3,222'</b>	
<sup>10</sup> Surface Location									
UL or lot no. <b>D</b>	Section <b>20</b>	Township <b>24S</b>	Range <b>30E</b>	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County <b>EDDY</b>
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. <b>E</b>	Section <b>5</b>	Township <b>25S</b>	Range <b>30E</b>	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County <b>EDDY</b>
<sup>12</sup> Dedicated Acres <b>1,121.05</b>		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

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



**17 OPERATOR CERTIFICATION**

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

Samantha Weis 2/22/2024  
Signature Date

Samantha Weis  
Printed Name

samantha.r.bartnik@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.

02/09/2024  
Date of Survey

Signature and Seal of  
Professional Surveyor:



MARK DILLON HARP 23786  
Certificate Number

RP 618.013003.06-33

Intent ☒ As Drilled ☐

API # 30-015		
Operator Name: XTO PERMIAN OPERATING, LLC	Property Name: Poker Lake Unit 20 DTD	Well Number 111H

## Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

## First Take Point (FTP)

UL D	Section 20	Township 24S	Range 30E	Lot	Feet 100	From N/S North	Feet 332	From E/W West	County Eddy
Latitude 32.210091~					Longitude -103.911136~				NAD 83

## Last Take Point (LTP)

UL E	Section 5	Township 25S	Range 30E	Lot	Feet 2,578	From N/S North	Feet 332	From E/W West	County Eddy
Latitude 32.159643~					Longitude -103.911034~				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc.  
PLU 20 Dog Town Draw 111H  
Projected TD: 28298.74' MD / 10018' TVD  
SHL: 939' FNL & 1260' FWL , Section 20, T24S, R30E  
BHL: 2629' FNL & 332' FWL , Section 5, T25S, R30E  
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	786'	Water
Top of Salt	1189'	Water
Base of Salt	3382'	Water
Delaware	3576'	Water
Brushy Canyon	6074'	Water/Oil/Gas
Bone Spring	7370'	Water
1st Bone Spring	8356'	Water/Oil/Gas
2nd Bone Spring	9174'	Water/Oil/Gas
3rd Bone Spring	9868'	Water/Oil/Gas
<b>Target/Land Curve</b>	<b>10018'</b>	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 13.375 inch casing @ 886' (303' 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 9.625 inch casing at 9271.39' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 28298.74 MD/TD and 6 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8971.39 feet).

**3. Casing Design**

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 886'	13.375	54.5	J-55	BTC	New	1.24	2.92	18.82
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	2.54	2.31	3.41
12.25	4000' – 9271.39'	9.625	40	HC L-80	BTC	New	1.85	1.89	4.34
8.5	0' – 9171.39'	6	26	P-110	Semi-Premium	New	1.17	2.79	1.70
8.5	9171.39' - 28298.74'	6	26	P-110	Semi-Premium	New	1.17	2.55	1.92

- 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
- 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- 6 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



**Wellhead:**

*Permanent Wellhead – Multibowl System*

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom (or equivalent)

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange (or equivalent)

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

#### 4. Cement Program

##### **Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 886'**

Lead: 430 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft<sup>3</sup>/sx, 10.13 gal/sx water)

Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

Top of Cement: Surface

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

##### **2nd Intermediate Casing: 9.625, 40 New casing to be set at +/- 9271.39'**

###### 1st Stage

Optional Lead: 1030 sxs Class C (mixed at 10.5 ppg, 2.77 ft<sup>3</sup>/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 920 sxs Class C (mixed at 14.8 ppg, 1.35 ft<sup>3</sup>/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6074

Compressives: 12-hr = 900 psi 24 hr = 1150 psi

###### 2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft<sup>3</sup>/sx, 9.61 gal/sx water)

Tail: 2140 sxs Class C (mixed at 14.8 ppg, 1.33 ft<sup>3</sup>/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 9-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6074') 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: 6, 26 New Semi-Premium, P-110 casing to be set at +/- 28298.74'**

Lead: 40 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft<sup>3</sup>/sx, 15.00 gal/sx water) Top of Cement: 8971.39 feet

Tail: 3200 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft<sup>3</sup>/sx, 8.38 gal/sx water) Top of Cement: 9471.39 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 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 3110 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 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 9.625, 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 week.

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' - 886'	17.5	FW/Native	8.4-8.9	35-40	NC
886' - 9271.39'	12.25	FW / Cut Brine / Direct Emulsion	8.8-9.3	30-32	NC
9271.39' - 28298.74'	8.5	OBM	10.2-10.7	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 13.375 casing.

## 8. Logging, Coring and Testing Program

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 5314 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 20 DTD South 111H

Measured Depth: 28298.74 ft

TVD RKB: 10018.00 ft

## Location

Cartographic Reference System: New Mexico East - NAD 27

Northing: 439533.20 ft

Easting: 631667.50 ft

RKB: 3254.00 ft

Ground Level: 3222.00 ft

North Reference: Grid

Convergence Angle: 0.23 Deg

## Plan Sections

Poker Lake Unit 20 DTD South 111H

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	0.00	0.00	0.00	0.00	0.00	0.00		
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00		
1942.79	16.86	310.45	1930.69	79.85	-93.66	2.00	0.00	2.00		
5326.80	16.86	310.45	5169.31	716.42	-840.40	0.00	0.00	0.00		
6169.59	0.00	0.00	6000.00	796.27	-934.06	-2.00	0.00	2.00		
9471.39	0.00	0.00	9301.80	796.27	-934.06	0.00	0.00	0.00		
10596.39	90.00	179.68	10018.00	80.08	-930.01	8.00	0.00	8.00		
28248.64	90.00	179.68	10018.00	-17571.88	-830.19	0.00	0.00	0.00	LTP 4	
28298.74	90.00	179.68	10018.00	-17621.98	-829.91	0.00	0.00	0.00	BHL 4	

## Position Uncertainty

Poker Lake Unit 20 DTD South 111H

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	2.309	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.346	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	2.373	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	2.405	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	2.442	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	2.483	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	2.529	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	2.578	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	2.631	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	310.447	1199.980	4.352	0.000	5.097	0.000	2.687	0.000	0.000	5.113	4.335	121.743	MWD+IFR1+MS
1300.000	4.000	310.447	1299.838	5.235	0.000	5.426	0.000	2.747	0.000	0.000	5.587	5.070	95.895	MWD+IFR1+MS
1400.000	6.000	310.447	1399.452	6.004	0.000	5.759	0.000	2.812	0.000	0.000	6.247	5.511	75.048	MWD+IFR1+MS
1500.000	8.000	310.447	1498.702	6.697	0.000	6.095	0.000	2.885	0.000	0.000	6.929	5.861	67.366	MWD+IFR1+MS
1600.000	10.000	310.447	1597.465	7.335	0.000	6.434	0.000	2.967	0.000	0.000	7.579	6.193	63.992	MWD+IFR1+MS
1700.000	12.000	310.447	1695.623	7.929	0.000	6.777	0.000	3.062	0.000	0.000	8.195	6.523	62.189	MWD+IFR1+MS
1800.000	14.000	310.447	1793.055	8.488	0.000	7.124	0.000	3.170	0.000	0.000	8.780	6.856	61.111	MWD+IFR1+MS
1900.000	16.000	310.447	1889.643	9.017	0.000	7.475	0.000	3.293	0.000	0.000	9.341	7.192	60.429	MWD+IFR1+MS
1942.792	16.856	310.447	1930.687	9.137	0.000	7.618	0.000	3.325	0.000	0.000	9.481	7.337	60.433	MWD+IFR1+MS
2000.000	16.856	310.447	1985.438	9.302	0.000	7.811	0.000	3.373	0.000	0.000	9.641	7.531	60.600	MWD+IFR1+MS
2100.000	16.856	310.447	2081.141	9.594	0.000	8.164	0.000	3.467	0.000	0.000	9.929	7.880	61.152	MWD+IFR1+MS
2200.000	16.856	310.447	2176.845	9.902	0.000	8.531	0.000	3.567	0.000	0.000	10.236	8.237	61.869	MWD+IFR1+MS
2300.000	16.856	310.447	2272.549	10.218	0.000	8.900	0.000	3.671	0.000	0.000	10.550	8.597	62.584	MWD+IFR1+MS
2400.000	16.856	310.447	2368.253	10.540	0.000	9.273	0.000	3.779	0.000	0.000	10.869	8.960	63.296	MWD+IFR1+MS
2500.000	16.856	310.447	2463.956	10.868	0.000	9.648	0.000	3.890	0.000	0.000	11.195	9.325	64.004	MWD+IFR1+MS
2600.000	16.856	310.447	2559.660	11.202	0.000	10.026	0.000	4.004	0.000	0.000	11.526	9.693	64.708	MWD+IFR1+MS
2700.000	16.856	310.447	2655.364	11.541	0.000	10.406	0.000	4.122	0.000	0.000	11.861	10.063	65.408	MWD+IFR1+MS
2800.000	16.856	310.447	2751.068	11.885	0.000	10.788	0.000	4.243	0.000	0.000	12.201	10.435	66.102	MWD+IFR1+MS
2900.000	16.856	310.447	2846.771	12.234	0.000	11.171	0.000	4.366	0.000	0.000	12.546	10.808	66.790	MWD+IFR1+MS

3000.000	16.856	310.447	2942.475	12.586	0.000	11.557	0.000	4.492	0.000	0.000	12.894	11.183	67.472	MWD+IFR1+MS
3100.000	16.856	310.447	3038.179	12.941	0.000	11.943	0.000	4.620	0.000	0.000	13.245	11.559	68.146	MWD+IFR1+MS
3200.000	16.856	310.447	3133.883	13.300	0.000	12.331	0.000	4.750	0.000	0.000	13.600	11.936	68.813	MWD+IFR1+MS
3300.000	16.856	310.447	3229.586	13.663	0.000	12.720	0.000	4.883	0.000	0.000	13.958	12.314	69.471	MWD+IFR1+MS
3400.000	16.856	310.447	3325.290	14.028	0.000	13.110	0.000	5.017	0.000	0.000	14.318	12.693	70.121	MWD+IFR1+MS
3500.000	16.856	310.447	3420.994	14.395	0.000	13.501	0.000	5.154	0.000	0.000	14.682	13.073	70.762	MWD+IFR1+MS
3600.000	16.856	310.447	3516.698	14.765	0.000	13.893	0.000	5.292	0.000	0.000	15.047	13.454	71.394	MWD+IFR1+MS
3700.000	16.856	310.447	3612.401	15.137	0.000	14.286	0.000	5.433	0.000	0.000	15.415	13.835	72.015	MWD+IFR1+MS
3800.000	16.856	310.447	3708.105	15.512	0.000	14.679	0.000	5.575	0.000	0.000	15.785	14.217	72.627	MWD+IFR1+MS
3900.000	16.856	310.447	3803.809	15.888	0.000	15.073	0.000	5.718	0.000	0.000	16.157	14.600	73.228	MWD+IFR1+MS
4000.000	16.856	310.447	3899.512	16.266	0.000	15.468	0.000	5.864	0.000	0.000	16.530	14.984	73.819	MWD+IFR1+MS
4100.000	16.856	310.447	3995.216	16.646	0.000	15.863	0.000	6.011	0.000	0.000	16.905	15.367	74.399	MWD+IFR1+MS
4200.000	16.856	310.447	4090.920	17.027	0.000	16.259	0.000	6.160	0.000	0.000	17.282	15.752	74.968	MWD+IFR1+MS
4300.000	16.856	310.447	4186.624	17.410	0.000	16.655	0.000	6.310	0.000	0.000	17.661	16.137	75.526	MWD+IFR1+MS
4400.000	16.856	310.447	4282.327	17.794	0.000	17.052	0.000	6.462	0.000	0.000	18.040	16.522	76.073	MWD+IFR1+MS
4500.000	16.856	310.447	4378.031	18.179	0.000	17.450	0.000	6.616	0.000	0.000	18.422	16.908	76.609	MWD+IFR1+MS
4600.000	16.856	310.447	4473.735	18.566	0.000	17.847	0.000	6.771	0.000	0.000	18.804	17.294	77.133	MWD+IFR1+MS
4700.000	16.856	310.447	4569.439	18.954	0.000	18.245	0.000	6.927	0.000	0.000	19.187	17.680	77.647	MWD+IFR1+MS
4800.000	16.856	310.447	4665.142	19.342	0.000	18.644	0.000	7.086	0.000	0.000	19.572	18.067	78.149	MWD+IFR1+MS
4900.000	16.856	310.447	4760.846	19.732	0.000	19.043	0.000	7.245	0.000	0.000	19.957	18.454	78.639	MWD+IFR1+MS
5000.000	16.856	310.447	4856.550	20.123	0.000	19.442	0.000	7.407	0.000	0.000	20.344	18.841	79.119	MWD+IFR1+MS
5100.000	16.856	310.447	4952.254	20.515	0.000	19.841	0.000	7.570	0.000	0.000	20.731	19.229	79.588	MWD+IFR1+MS
5200.000	16.856	310.447	5047.957	20.907	0.000	20.241	0.000	7.734	0.000	0.000	21.120	19.616	80.046	MWD+IFR1+MS
5300.000	16.856	310.447	5143.661	21.300	0.000	20.641	0.000	7.900	0.000	0.000	21.509	20.005	80.493	MWD+IFR1+MS
5326.803	16.856	310.447	5169.313	21.404	0.000	20.746	0.000	7.944	0.000	0.000	21.609	20.109	80.592	MWD+IFR1+MS
5400.000	15.392	310.447	5239.628	21.726	0.000	21.031	0.000	8.068	0.000	0.000	21.891	20.392	80.706	MWD+IFR1+MS
5500.000	13.392	310.447	5336.485	22.216	0.000	21.419	0.000	8.244	0.000	0.000	22.333	20.790	79.638	MWD+IFR1+MS
5600.000	11.392	310.447	5434.150	22.699	0.000	21.800	0.000	8.414	0.000	0.000	22.793	21.184	78.182	MWD+IFR1+MS
5700.000	9.392	310.447	5532.505	23.145	0.000	22.173	0.000	8.572	0.000	0.000	23.247	21.568	76.824	MWD+IFR1+MS
5800.000	7.392	310.447	5631.429	23.552	0.000	22.536	0.000	8.719	0.000	0.000	23.692	21.942	75.569	MWD+IFR1+MS
5900.000	5.392	310.447	5730.803	23.921	0.000	22.891	0.000	8.857	0.000	0.000	24.129	22.306	74.418	MWD+IFR1+MS
6000.000	3.392	310.447	5830.504	24.252	0.000	23.236	0.000	8.988	0.000	0.000	24.556	22.660	73.373	MWD+IFR1+MS
6100.000	1.392	310.447	5930.412	24.544	0.000	23.573	0.000	9.112	0.000	0.000	24.973	23.003	72.429	MWD+IFR1+MS



6169.595	0.000	0.000	6000.000	25.044	0.000	23.414	0.000	9.196	0.000	0.000	25.216	23.229	72.576	MWD+IFR1+MS
6200.000	0.000	0.000	6030.405	25.138	0.000	23.510	0.000	9.232	0.000	0.000	25.308	23.327	72.654	MWD+IFR1+MS
6300.000	0.000	0.000	6130.405	25.445	0.000	23.829	0.000	9.353	0.000	0.000	25.608	23.654	72.912	MWD+IFR1+MS
6400.000	0.000	0.000	6230.405	25.758	0.000	24.153	0.000	9.476	0.000	0.000	25.912	23.988	73.272	MWD+IFR1+MS
6500.000	0.000	0.000	6330.405	26.072	0.000	24.478	0.000	9.603	0.000	0.000	26.217	24.323	73.634	MWD+IFR1+MS
6600.000	0.000	0.000	6430.405	26.387	0.000	24.804	0.000	9.731	0.000	0.000	26.524	24.658	73.999	MWD+IFR1+MS
6700.000	0.000	0.000	6530.405	26.703	0.000	25.131	0.000	9.863	0.000	0.000	26.832	24.993	74.365	MWD+IFR1+MS
6800.000	0.000	0.000	6630.405	27.020	0.000	25.459	0.000	9.998	0.000	0.000	27.142	25.330	74.733	MWD+IFR1+MS
6900.000	0.000	0.000	6730.405	27.338	0.000	25.788	0.000	10.135	0.000	0.000	27.453	25.666	75.102	MWD+IFR1+MS
7000.000	0.000	0.000	6830.405	27.657	0.000	26.117	0.000	10.275	0.000	0.000	27.765	26.003	75.473	MWD+IFR1+MS
7100.000	0.000	0.000	6930.405	27.977	0.000	26.448	0.000	10.418	0.000	0.000	28.078	26.341	75.845	MWD+IFR1+MS
7200.000	0.000	0.000	7030.405	28.298	0.000	26.779	0.000	10.565	0.000	0.000	28.393	26.678	76.218	MWD+IFR1+MS
7300.000	0.000	0.000	7130.405	28.620	0.000	27.110	0.000	10.714	0.000	0.000	28.709	27.017	76.592	MWD+IFR1+MS
7400.000	0.000	0.000	7230.405	28.943	0.000	27.443	0.000	10.866	0.000	0.000	29.026	27.355	76.968	MWD+IFR1+MS
7500.000	0.000	0.000	7330.405	29.267	0.000	27.776	0.000	11.021	0.000	0.000	29.344	27.694	77.344	MWD+IFR1+MS
7600.000	0.000	0.000	7430.405	29.591	0.000	28.109	0.000	11.178	0.000	0.000	29.663	28.033	77.721	MWD+IFR1+MS
7700.000	0.000	0.000	7530.405	29.916	0.000	28.443	0.000	11.339	0.000	0.000	29.983	28.373	78.098	MWD+IFR1+MS
7800.000	0.000	0.000	7630.405	30.242	0.000	28.778	0.000	11.503	0.000	0.000	30.304	28.713	78.476	MWD+IFR1+MS
7900.000	0.000	0.000	7730.405	30.569	0.000	29.114	0.000	11.671	0.000	0.000	30.626	29.053	78.854	MWD+IFR1+MS
8000.000	0.000	0.000	7830.405	30.896	0.000	29.449	0.000	11.841	0.000	0.000	30.949	29.394	79.233	MWD+IFR1+MS
8100.000	0.000	0.000	7930.405	31.224	0.000	29.786	0.000	12.014	0.000	0.000	31.273	29.735	79.611	MWD+IFR1+MS
8200.000	0.000	0.000	8030.405	31.553	0.000	30.123	0.000	12.190	0.000	0.000	31.598	30.076	79.990	MWD+IFR1+MS
8300.000	0.000	0.000	8130.405	31.882	0.000	30.460	0.000	12.370	0.000	0.000	31.923	30.417	80.368	MWD+IFR1+MS
8400.000	0.000	0.000	8230.405	32.212	0.000	30.798	0.000	12.552	0.000	0.000	32.250	30.759	80.746	MWD+IFR1+MS
8500.000	0.000	0.000	8330.405	32.543	0.000	31.136	0.000	12.738	0.000	0.000	32.577	31.100	81.123	MWD+IFR1+MS
8600.000	0.000	0.000	8430.405	32.874	0.000	31.475	0.000	12.927	0.000	0.000	32.905	31.443	81.500	MWD+IFR1+MS
8700.000	0.000	0.000	8530.405	33.205	0.000	31.815	0.000	13.119	0.000	0.000	33.234	31.785	81.876	MWD+IFR1+MS
8800.000	0.000	0.000	8630.405	33.538	0.000	32.154	0.000	13.314	0.000	0.000	33.563	32.127	82.251	MWD+IFR1+MS
8900.000	0.000	0.000	8730.405	33.870	0.000	32.494	0.000	13.512	0.000	0.000	33.893	32.470	82.625	MWD+IFR1+MS
9000.000	0.000	0.000	8830.405	34.204	0.000	32.835	0.000	13.714	0.000	0.000	34.224	32.813	82.998	MWD+IFR1+MS
9100.000	0.000	0.000	8930.405	34.538	0.000	33.175	0.000	13.918	0.000	0.000	34.556	33.156	83.370	MWD+IFR1+MS
9200.000	0.000	0.000	9030.405	34.872	0.000	33.517	0.000	14.126	0.000	0.000	34.888	33.500	83.740	MWD+IFR1+MS
9300.000	0.000	0.000	9130.405	35.207	0.000	33.858	0.000	14.337	0.000	0.000	35.221	33.843	84.109	MWD+IFR1+MS

9400.000	0.000	0.000	9230.405	35.542	0.000	34.200	0.000	14.552	0.000	0.000	35.554	34.187	84.477	MWD+IFR1+MS
9471.395	0.000	0.000	9301.800	35.780	0.000	34.443	0.000	14.707	0.000	0.000	35.791	34.431	84.666	MWD+IFR1+MS
9500.000	2.288	179.676	9330.397	35.725	0.000	34.533	-0.000	14.769	0.000	0.000	35.882	34.523	84.706	MWD+IFR1+MS
9600.000	10.288	179.676	9429.715	35.628	0.000	34.832	-0.000	15.006	0.000	0.000	36.637	34.829	87.200	MWD+IFR1+MS
9700.000	18.288	179.676	9526.543	35.678	0.000	35.114	-0.000	15.380	0.000	0.000	37.969	35.114	89.805	MWD+IFR1+MS
9800.000	26.288	179.676	9618.996	35.213	0.000	35.372	-0.000	15.965	0.000	0.000	39.139	35.370	90.985	MWD+IFR1+MS
9900.000	34.288	179.676	9705.276	34.309	0.000	35.604	-0.000	16.814	0.000	0.000	40.124	35.598	91.688	MWD+IFR1+MS
10000.000	42.288	179.676	9783.702	33.070	0.000	35.808	-0.000	17.938	0.000	0.000	40.915	35.798	92.169	MWD+IFR1+MS
10100.000	50.288	179.676	9852.749	31.632	0.000	35.985	-0.000	19.316	0.000	0.000	41.515	35.970	92.514	MWD+IFR1+MS
10200.000	58.288	179.676	9911.072	30.164	0.000	36.134	-0.000	20.900	0.000	0.000	41.934	36.115	92.752	MWD+IFR1+MS
10300.000	66.288	179.676	9957.537	28.865	0.000	36.254	-0.000	22.629	0.000	0.000	42.195	36.234	92.884	MWD+IFR1+MS
10400.000	74.288	179.676	9991.238	27.953	0.000	36.346	-0.000	24.437	0.000	0.000	42.330	36.326	92.891	MWD+IFR1+MS
10500.000	82.288	179.676	10011.520	27.624	0.000	36.410	-0.000	26.261	0.000	0.000	42.376	36.392	92.744	MWD+IFR1+MS
10596.395	90.000	179.676	10017.997	27.875	0.000	36.444	-0.000	27.875	0.000	0.000	42.379	36.430	92.422	MWD+IFR1+MS
10600.000	90.000	179.676	10017.997	27.883	0.000	36.445	-0.000	27.883	0.000	0.000	42.380	36.430	92.406	MWD+IFR1+MS
10700.000	90.000	179.676	10017.997	28.093	0.000	36.472	-0.000	28.093	0.000	0.000	42.378	36.462	91.976	MWD+IFR1+MS
10800.000	90.000	179.676	10017.997	28.329	0.000	36.519	-0.000	28.329	0.000	0.000	42.377	36.512	91.546	MWD+IFR1+MS
10900.000	90.000	179.676	10017.997	28.584	0.000	36.582	-0.000	28.584	0.000	0.000	42.378	36.578	91.113	MWD+IFR1+MS
11000.000	90.000	179.676	10017.997	28.858	0.000	36.660	-0.000	28.858	0.000	0.000	42.380	36.659	90.674	MWD+IFR1+MS
11100.000	90.000	179.676	10017.997	29.150	0.000	36.755	-0.000	29.150	0.000	0.000	42.383	36.754	90.225	MWD+IFR1+MS
11200.000	90.000	179.676	10017.997	29.461	0.000	36.865	-0.000	29.461	0.000	0.000	42.387	36.865	89.763	MWD+IFR1+MS
11300.000	90.000	179.676	10017.997	29.789	0.000	36.991	-0.000	29.789	0.000	0.000	42.393	36.990	89.282	MWD+IFR1+MS
11400.000	90.000	179.676	10017.997	30.134	0.000	37.132	-0.000	30.134	0.000	0.000	42.399	37.130	88.780	MWD+IFR1+MS
11500.000	90.000	179.676	10017.997	30.495	0.000	37.288	-0.000	30.495	0.000	0.000	42.408	37.285	88.249	MWD+IFR1+MS
11600.000	90.000	179.676	10017.997	30.872	0.000	37.459	-0.000	30.872	0.000	0.000	42.417	37.453	87.685	MWD+IFR1+MS
11700.000	90.000	179.676	10017.997	31.264	0.000	37.645	-0.000	31.264	0.000	0.000	42.428	37.635	87.078	MWD+IFR1+MS
11800.000	90.000	179.676	10017.997	31.671	0.000	37.846	-0.000	31.671	0.000	0.000	42.441	37.830	86.421	MWD+IFR1+MS
11900.000	90.000	179.676	10017.997	32.092	0.000	38.061	-0.000	32.092	0.000	0.000	42.456	38.038	85.701	MWD+IFR1+MS
12000.000	90.000	179.676	10017.997	32.526	0.000	38.290	-0.000	32.526	0.000	0.000	42.472	38.259	84.904	MWD+IFR1+MS
12100.000	90.000	179.676	10017.997	32.973	0.000	38.533	-0.000	32.973	0.000	0.000	42.491	38.492	84.013	MWD+IFR1+MS
12200.000	90.000	179.676	10017.997	33.433	0.000	38.789	-0.000	33.433	0.000	0.000	42.513	38.736	83.005	MWD+IFR1+MS
12300.000	90.000	179.676	10017.997	33.904	0.000	39.059	-0.000	33.904	0.000	0.000	42.538	38.990	81.850	MWD+IFR1+MS
12400.000	90.000	179.676	10017.997	34.387	0.000	39.342	-0.000	34.387	0.000	0.000	42.567	39.254	80.510	MWD+IFR1+MS

12500.000	90.000	179.676	10017.997	34.881	0.000	39.637	-0.000	34.881	0.000	0.000	42.601	39.527	78.935	MWD+IFR1+MS
12600.000	90.000	179.676	10017.997	35.386	0.000	39.945	-0.000	35.386	0.000	0.000	42.642	39.806	77.058	MWD+IFR1+MS
12700.000	90.000	179.676	10017.997	35.901	0.000	40.266	-0.000	35.901	0.000	0.000	42.690	40.089	74.792	MWD+IFR1+MS
12800.000	90.000	179.676	10017.997	36.425	0.000	40.598	-0.000	36.425	0.000	0.000	42.750	40.374	72.027	MWD+IFR1+MS
12900.000	90.000	179.676	10017.997	36.958	0.000	40.942	-0.000	36.958	0.000	0.000	42.824	40.656	68.631	MWD+IFR1+MS
13000.000	90.000	179.676	10017.997	37.500	0.000	41.297	-0.000	37.500	0.000	0.000	42.919	40.929	64.478	MWD+IFR1+MS
13100.000	90.000	179.676	10017.997	38.051	0.000	41.663	-0.000	38.051	0.000	0.000	43.041	41.187	59.498	MWD+IFR1+MS
13200.000	90.000	179.676	10017.997	38.610	0.000	42.040	-0.000	38.610	0.000	0.000	43.199	41.420	53.781	MWD+IFR1+MS
13300.000	90.000	179.676	10017.997	39.177	0.000	42.428	-0.000	39.177	0.000	0.000	43.399	41.623	47.657	MWD+IFR1+MS
13400.000	90.000	179.676	10017.997	39.751	0.000	42.825	-0.000	39.751	0.000	0.000	43.644	41.791	41.631	MWD+IFR1+MS
13500.000	90.000	179.676	10017.997	40.332	0.000	43.233	-0.000	40.332	0.000	0.000	43.931	41.926	36.165	MWD+IFR1+MS
13600.000	90.000	179.676	10017.997	40.920	0.000	43.650	-0.000	40.920	0.000	0.000	44.257	42.034	31.499	MWD+IFR1+MS
13700.000	90.000	179.676	10017.997	41.514	0.000	44.076	-0.000	41.514	0.000	0.000	44.613	42.121	27.653	MWD+IFR1+MS
13800.000	90.000	179.676	10017.997	42.115	0.000	44.512	-0.000	42.115	0.000	0.000	44.994	42.193	24.526	MWD+IFR1+MS
13900.000	90.000	179.676	10017.997	42.721	0.000	44.956	-0.000	42.721	0.000	0.000	45.396	42.253	21.986	MWD+IFR1+MS
14000.000	90.000	179.676	10017.997	43.334	0.000	45.409	-0.000	43.334	0.000	0.000	45.815	42.305	19.907	MWD+IFR1+MS
14100.000	90.000	179.676	10017.997	43.952	0.000	45.871	-0.000	43.952	0.000	0.000	46.249	42.351	18.189	MWD+IFR1+MS
14200.000	90.000	179.676	10017.997	44.575	0.000	46.340	-0.000	44.575	0.000	0.000	46.695	42.393	16.751	MWD+IFR1+MS
14300.000	90.000	179.676	10017.997	45.203	0.000	46.817	-0.000	45.203	0.000	0.000	47.153	42.432	15.535	MWD+IFR1+MS
14400.000	90.000	179.676	10017.997	45.836	0.000	47.302	-0.000	45.836	0.000	0.000	47.622	42.469	14.494	MWD+IFR1+MS
14500.000	90.000	179.676	10017.997	46.473	0.000	47.794	-0.000	46.473	0.000	0.000	48.100	42.504	13.595	MWD+IFR1+MS
14600.000	90.000	179.676	10017.997	47.115	0.000	48.293	-0.000	47.115	0.000	0.000	48.587	42.537	12.811	MWD+IFR1+MS
14700.000	90.000	179.676	10017.997	47.762	0.000	48.799	-0.000	47.762	0.000	0.000	49.082	42.570	12.120	MWD+IFR1+MS
14800.000	90.000	179.676	10017.997	48.412	0.000	49.312	-0.000	48.412	0.000	0.000	49.586	42.602	11.508	MWD+IFR1+MS
14900.000	90.000	179.676	10017.997	49.066	0.000	49.831	-0.000	49.066	0.000	0.000	50.096	42.633	10.961	MWD+IFR1+MS
15000.000	90.000	179.676	10017.997	49.724	0.000	50.357	-0.000	49.724	0.000	0.000	50.614	42.664	10.470	MWD+IFR1+MS
15100.000	90.000	179.676	10017.997	50.386	0.000	50.888	-0.000	50.386	0.000	0.000	51.139	42.695	10.026	MWD+IFR1+MS
15200.000	90.000	179.676	10017.997	51.051	0.000	51.426	-0.000	51.051	0.000	0.000	51.670	42.726	9.622	MWD+IFR1+MS
15300.000	90.000	179.676	10017.997	51.720	0.000	51.969	-0.000	51.720	0.000	0.000	52.208	42.757	9.254	MWD+IFR1+MS
15400.000	90.000	179.676	10017.997	52.392	0.000	52.518	-0.000	52.392	0.000	0.000	52.751	42.788	8.916	MWD+IFR1+MS
15500.000	90.000	179.676	10017.997	53.067	0.000	53.072	-0.000	53.067	0.000	0.000	53.300	42.819	8.605	MWD+IFR1+MS
15600.000	90.000	179.676	10017.997	53.744	0.000	53.632	-0.000	53.744	0.000	0.000	53.855	42.850	8.317	MWD+IFR1+MS
15700.000	90.000	179.676	10017.997	54.425	0.000	54.196	-0.000	54.425	0.000	0.000	54.415	42.882	8.050	MWD+IFR1+MS

15800.000	90.000	179.676	10017.997	55.109	0.000	54.765	-0.000	55.109	0.000	0.000	54.980	42.914	7.802	MWD+IFR1+MS
15900.000	90.000	179.676	10017.997	55.795	0.000	55.339	-0.000	55.795	0.000	0.000	55.551	42.946	7.570	MWD+IFR1+MS
16000.000	90.000	179.676	10017.997	56.484	0.000	55.918	-0.000	56.484	0.000	0.000	56.126	42.978	7.353	MWD+IFR1+MS
16100.000	90.000	179.676	10017.997	57.175	0.000	56.501	-0.000	57.175	0.000	0.000	56.705	43.011	7.150	MWD+IFR1+MS
16200.000	90.000	179.676	10017.997	57.868	0.000	57.088	-0.000	57.868	0.000	0.000	57.289	43.044	6.959	MWD+IFR1+MS
16300.000	90.000	179.676	10017.997	58.564	0.000	57.680	-0.000	58.564	0.000	0.000	57.878	43.078	6.779	MWD+IFR1+MS
16400.000	90.000	179.676	10017.997	59.262	0.000	58.276	-0.000	59.262	0.000	0.000	58.470	43.112	6.609	MWD+IFR1+MS
16500.000	90.000	179.676	10017.997	59.963	0.000	58.875	-0.000	59.963	0.000	0.000	59.067	43.146	6.448	MWD+IFR1+MS
16600.000	90.000	179.676	10017.997	60.665	0.000	59.479	-0.000	60.665	0.000	0.000	59.668	43.181	6.295	MWD+IFR1+MS
16700.000	90.000	179.676	10017.997	61.369	0.000	60.086	-0.000	61.369	0.000	0.000	60.272	43.216	6.150	MWD+IFR1+MS
16800.000	90.000	179.676	10017.997	62.076	0.000	60.696	-0.000	62.076	0.000	0.000	60.880	43.252	6.013	MWD+IFR1+MS
16900.000	90.000	179.676	10017.997	62.784	0.000	61.310	-0.000	62.784	0.000	0.000	61.492	43.288	5.881	MWD+IFR1+MS
17000.000	90.000	179.676	10017.997	63.494	0.000	61.928	-0.000	63.494	0.000	0.000	62.107	43.324	5.756	MWD+IFR1+MS
17100.000	90.000	179.676	10017.997	64.205	0.000	62.549	-0.000	64.205	0.000	0.000	62.726	43.361	5.637	MWD+IFR1+MS
17200.000	90.000	179.676	10017.997	64.919	0.000	63.173	-0.000	64.919	0.000	0.000	63.347	43.398	5.523	MWD+IFR1+MS
17300.000	90.000	179.676	10017.997	65.634	0.000	63.800	-0.000	65.634	0.000	0.000	63.972	43.436	5.413	MWD+IFR1+MS
17400.000	90.000	179.676	10017.997	66.350	0.000	64.430	-0.000	66.350	0.000	0.000	64.600	43.474	5.309	MWD+IFR1+MS
17500.000	90.000	179.676	10017.997	67.068	0.000	65.063	-0.000	67.068	0.000	0.000	65.231	43.513	5.208	MWD+IFR1+MS
17600.000	90.000	179.676	10017.997	67.788	0.000	65.698	-0.000	67.788	0.000	0.000	65.865	43.552	5.112	MWD+IFR1+MS
17700.000	90.000	179.676	10017.997	68.509	0.000	66.337	-0.000	68.509	0.000	0.000	66.502	43.592	5.019	MWD+IFR1+MS
17800.000	90.000	179.676	10017.997	69.231	0.000	66.978	-0.000	69.231	0.000	0.000	67.141	43.632	4.929	MWD+IFR1+MS
17900.000	90.000	179.676	10017.997	69.955	0.000	67.622	-0.000	69.955	0.000	0.000	67.783	43.672	4.843	MWD+IFR1+MS
18000.000	90.000	179.676	10017.997	70.680	0.000	68.268	-0.000	70.680	0.000	0.000	68.427	43.713	4.761	MWD+IFR1+MS
18100.000	90.000	179.676	10017.997	71.407	0.000	68.917	-0.000	71.407	0.000	0.000	69.074	43.755	4.681	MWD+IFR1+MS
18200.000	90.000	179.676	10017.997	72.134	0.000	69.568	-0.000	72.134	0.000	0.000	69.724	43.797	4.603	MWD+IFR1+MS
18300.000	90.000	179.676	10017.997	72.863	0.000	70.221	-0.000	72.863	0.000	0.000	70.376	43.839	4.529	MWD+IFR1+MS
18400.000	90.000	179.676	10017.997	73.593	0.000	70.877	-0.000	73.593	0.000	0.000	71.030	43.882	4.457	MWD+IFR1+MS
18500.000	90.000	179.676	10017.997	74.324	0.000	71.535	-0.000	74.324	0.000	0.000	71.686	43.925	4.387	MWD+IFR1+MS
18600.000	90.000	179.676	10017.997	75.056	0.000	72.195	-0.000	75.056	0.000	0.000	72.344	43.969	4.319	MWD+IFR1+MS
18700.000	90.000	179.676	10017.997	75.789	0.000	72.857	-0.000	75.789	0.000	0.000	73.005	44.013	4.254	MWD+IFR1+MS
18800.000	90.000	179.676	10017.997	76.523	0.000	73.521	-0.000	76.523	0.000	0.000	73.668	44.058	4.190	MWD+IFR1+MS
18900.000	90.000	179.676	10017.997	77.258	0.000	74.187	-0.000	77.258	0.000	0.000	74.332	44.103	4.129	MWD+IFR1+MS
19000.000	90.000	179.676	10017.997	77.994	0.000	74.855	-0.000	77.994	0.000	0.000	74.999	44.149	4.069	MWD+IFR1+MS



19100.000	90.000	179.676	10017.997	78.731	0.000	75.525	-0.000	78.731	0.000	0.000	75.667	44.195	4.011	MWD+IFR1+MS
19200.000	90.000	179.676	10017.997	79.469	0.000	76.196	-0.000	79.469	0.000	0.000	76.337	44.242	3.955	MWD+IFR1+MS
19300.000	90.000	179.676	10017.997	80.208	0.000	76.869	-0.000	80.208	0.000	0.000	77.009	44.289	3.900	MWD+IFR1+MS
19400.000	90.000	179.676	10017.997	80.948	0.000	77.544	-0.000	80.948	0.000	0.000	77.683	44.336	3.847	MWD+IFR1+MS
19500.000	90.000	179.676	10017.997	81.688	0.000	78.221	-0.000	81.688	0.000	0.000	78.359	44.384	3.795	MWD+IFR1+MS
19600.000	90.000	179.676	10017.997	82.430	0.000	78.899	-0.000	82.430	0.000	0.000	79.036	44.433	3.745	MWD+IFR1+MS
19700.000	90.000	179.676	10017.997	83.172	0.000	79.579	-0.000	83.172	0.000	0.000	79.714	44.482	3.696	MWD+IFR1+MS
19800.000	90.000	179.676	10017.997	83.915	0.000	80.261	-0.000	83.915	0.000	0.000	80.395	44.531	3.648	MWD+IFR1+MS
19900.000	90.000	179.676	10017.997	84.659	0.000	80.944	-0.000	84.659	0.000	0.000	81.076	44.581	3.601	MWD+IFR1+MS
20000.000	90.000	179.676	10017.997	85.403	0.000	81.628	-0.000	85.403	0.000	0.000	81.760	44.631	3.556	MWD+IFR1+MS
20100.000	90.000	179.676	10017.997	86.148	0.000	82.314	-0.000	86.148	0.000	0.000	82.444	44.682	3.512	MWD+IFR1+MS
20200.000	90.000	179.676	10017.997	86.894	0.000	83.001	-0.000	86.894	0.000	0.000	83.131	44.733	3.468	MWD+IFR1+MS
20300.000	90.000	179.676	10017.997	87.641	0.000	83.690	-0.000	87.641	0.000	0.000	83.818	44.784	3.426	MWD+IFR1+MS
20400.000	90.000	179.676	10017.997	88.388	0.000	84.380	-0.000	88.388	0.000	0.000	84.507	44.836	3.385	MWD+IFR1+MS
20500.000	90.000	179.676	10017.997	89.136	0.000	85.071	-0.000	89.136	0.000	0.000	85.197	44.889	3.345	MWD+IFR1+MS
20600.000	90.000	179.676	10017.997	89.884	0.000	85.764	-0.000	89.884	0.000	0.000	85.889	44.942	3.306	MWD+IFR1+MS
20700.000	90.000	179.676	10017.997	90.633	0.000	86.457	-0.000	90.633	0.000	0.000	86.581	44.995	3.267	MWD+IFR1+MS
20800.000	90.000	179.676	10017.997	91.383	0.000	87.152	-0.000	91.383	0.000	0.000	87.275	45.049	3.230	MWD+IFR1+MS
20900.000	90.000	179.676	10017.997	92.133	0.000	87.848	-0.000	92.133	0.000	0.000	87.970	45.104	3.193	MWD+IFR1+MS
21000.000	90.000	179.676	10017.997	92.884	0.000	88.546	-0.000	92.884	0.000	0.000	88.667	45.158	3.157	MWD+IFR1+MS
21100.000	90.000	179.676	10017.997	93.636	0.000	89.244	-0.000	93.636	0.000	0.000	89.364	45.214	3.122	MWD+IFR1+MS
21200.000	90.000	179.676	10017.997	94.388	0.000	89.943	-0.000	94.388	0.000	0.000	90.063	45.269	3.088	MWD+IFR1+MS
21300.000	90.000	179.676	10017.997	95.140	0.000	90.644	-0.000	95.140	0.000	0.000	90.762	45.325	3.054	MWD+IFR1+MS
21400.000	90.000	179.676	10017.997	95.893	0.000	91.345	-0.000	95.893	0.000	0.000	91.463	45.382	3.021	MWD+IFR1+MS
21500.000	90.000	179.676	10017.997	96.647	0.000	92.048	-0.000	96.647	0.000	0.000	92.165	45.439	2.989	MWD+IFR1+MS
21600.000	90.000	179.676	10017.997	97.401	0.000	92.752	-0.000	97.401	0.000	0.000	92.867	45.496	2.957	MWD+IFR1+MS
21700.000	90.000	179.676	10017.997	98.155	0.000	93.456	-0.000	98.155	0.000	0.000	93.571	45.554	2.926	MWD+IFR1+MS
21800.000	90.000	179.676	10017.997	98.910	0.000	94.162	-0.000	98.910	0.000	0.000	94.276	45.612	2.896	MWD+IFR1+MS
21900.000	90.000	179.676	10017.997	99.665	0.000	94.868	-0.000	99.665	0.000	0.000	94.981	45.671	2.866	MWD+IFR1+MS
22000.000	90.000	179.676	10017.997	100.421	0.000	95.576	-0.000	100.421	0.000	0.000	95.688	45.730	2.837	MWD+IFR1+MS
22100.000	90.000	179.676	10017.997	101.178	0.000	96.284	-0.000	101.178	0.000	0.000	96.395	45.790	2.808	MWD+IFR1+MS
22200.000	90.000	179.676	10017.997	101.934	0.000	96.993	-0.000	101.934	0.000	0.000	97.104	45.849	2.780	MWD+IFR1+MS
22300.000	90.000	179.676	10017.997	102.691	0.000	97.703	-0.000	102.691	0.000	0.000	97.813	45.910	2.753	MWD+IFR1+MS

22400.000	90.000	179.676	10017.997	103.449	0.000	98.414	-0.000	103.449	0.000	0.000	98.523	45.971	2.726	MWD+IFR1+MS
22500.000	90.000	179.676	10017.997	104.207	0.000	99.125	-0.000	104.207	0.000	0.000	99.234	46.032	2.699	MWD+IFR1+MS
22600.000	90.000	179.676	10017.997	104.965	0.000	99.838	-0.000	104.965	0.000	0.000	99.945	46.094	2.673	MWD+IFR1+MS
22700.000	90.000	179.676	10017.997	105.724	0.000	100.551	-0.000	105.724	0.000	0.000	100.658	46.156	2.647	MWD+IFR1+MS
22800.000	90.000	179.676	10017.997	106.483	0.000	101.265	-0.000	106.483	0.000	0.000	101.371	46.218	2.622	MWD+IFR1+MS
22900.000	90.000	179.676	10017.997	107.243	0.000	101.980	-0.000	107.243	0.000	0.000	102.085	46.281	2.597	MWD+IFR1+MS
23000.000	90.000	179.676	10017.997	108.003	0.000	102.695	-0.000	108.003	0.000	0.000	102.800	46.344	2.573	MWD+IFR1+MS
23100.000	90.000	179.676	10017.997	108.763	0.000	103.411	-0.000	108.763	0.000	0.000	103.515	46.408	2.549	MWD+IFR1+MS
23200.000	90.000	179.676	10017.997	109.523	0.000	104.128	-0.000	109.523	0.000	0.000	104.231	46.472	2.526	MWD+IFR1+MS
23300.000	90.000	179.676	10017.997	110.284	0.000	104.846	-0.000	110.284	0.000	0.000	104.948	46.537	2.503	MWD+IFR1+MS
23400.000	90.000	179.676	10017.997	111.045	0.000	105.564	-0.000	111.045	0.000	0.000	105.666	46.602	2.480	MWD+IFR1+MS
23500.000	90.000	179.676	10017.997	111.807	0.000	106.283	-0.000	111.807	0.000	0.000	106.384	46.667	2.458	MWD+IFR1+MS
23600.000	90.000	179.676	10017.997	112.569	0.000	107.002	-0.000	112.569	0.000	0.000	107.103	46.733	2.436	MWD+IFR1+MS
23700.000	90.000	179.676	10017.997	113.331	0.000	107.723	-0.000	113.331	0.000	0.000	107.823	46.799	2.414	MWD+IFR1+MS
23800.000	90.000	179.676	10017.997	114.094	0.000	108.443	-0.000	114.094	0.000	0.000	108.543	46.866	2.393	MWD+IFR1+MS
23900.000	90.000	179.676	10017.997	114.856	0.000	109.165	-0.000	114.856	0.000	0.000	109.263	46.933	2.372	MWD+IFR1+MS
24000.000	90.000	179.676	10017.997	115.619	0.000	109.887	-0.000	115.619	0.000	0.000	109.985	47.000	2.352	MWD+IFR1+MS
24100.000	90.000	179.676	10017.997	116.383	0.000	110.609	-0.000	116.383	0.000	0.000	110.707	47.068	2.332	MWD+IFR1+MS
24200.000	90.000	179.676	10017.997	117.146	0.000	111.333	-0.000	117.146	0.000	0.000	111.429	47.136	2.312	MWD+IFR1+MS
24300.000	90.000	179.676	10017.997	117.910	0.000	112.056	-0.000	117.910	0.000	0.000	112.153	47.204	2.292	MWD+IFR1+MS
24400.000	90.000	179.676	10017.997	118.675	0.000	112.781	-0.000	118.675	0.000	0.000	112.876	47.273	2.273	MWD+IFR1+MS
24500.000	90.000	179.676	10017.997	119.439	0.000	113.505	-0.000	119.439	0.000	0.000	113.600	47.343	2.254	MWD+IFR1+MS
24600.000	90.000	179.676	10017.997	120.204	0.000	114.231	-0.000	120.204	0.000	0.000	114.325	47.412	2.235	MWD+IFR1+MS
24700.000	90.000	179.676	10017.997	120.969	0.000	114.957	-0.000	120.969	0.000	0.000	115.051	47.483	2.217	MWD+IFR1+MS
24800.000	90.000	179.676	10017.997	121.734	0.000	115.683	-0.000	121.734	0.000	0.000	115.776	47.553	2.199	MWD+IFR1+MS
24900.000	90.000	179.676	10017.997	122.500	0.000	116.410	-0.000	122.500	0.000	0.000	116.503	47.624	2.181	MWD+IFR1+MS
25000.000	90.000	179.676	10017.997	123.265	0.000	117.137	-0.000	123.265	0.000	0.000	117.230	47.695	2.163	MWD+IFR1+MS
25100.000	90.000	179.676	10017.997	124.031	0.000	117.865	-0.000	124.031	0.000	0.000	117.957	47.767	2.146	MWD+IFR1+MS
25200.000	90.000	179.676	10017.997	124.798	0.000	118.594	-0.000	124.798	0.000	0.000	118.685	47.839	2.129	MWD+IFR1+MS
25300.000	90.000	179.676	10017.997	125.564	0.000	119.322	-0.000	125.564	0.000	0.000	119.413	47.911	2.112	MWD+IFR1+MS
25400.000	90.000	179.676	10017.997	126.331	0.000	120.052	-0.000	126.331	0.000	0.000	120.142	47.984	2.095	MWD+IFR1+MS
25500.000	90.000	179.676	10017.997	127.098	0.000	120.781	-0.000	127.098	0.000	0.000	120.871	48.057	2.079	MWD+IFR1+MS
25600.000	90.000	179.676	10017.997	127.865	0.000	121.512	-0.000	127.865	0.000	0.000	121.601	48.131	2.063	MWD+IFR1+MS

25700.000	90.000	179.676	10017.997	128.632	0.000	122.242	-0.000	128.632	0.000	0.000	122.331	48.204	2.047	MWD+IFR1+MS
25800.000	90.000	179.676	10017.997	129.399	0.000	122.973	-0.000	129.399	0.000	0.000	123.061	48.279	2.031	MWD+IFR1+MS
25900.000	90.000	179.676	10017.997	130.167	0.000	123.705	-0.000	130.167	0.000	0.000	123.792	48.353	2.015	MWD+IFR1+MS
26000.000	90.000	179.676	10017.997	130.935	0.000	124.437	-0.000	130.935	0.000	0.000	124.524	48.428	2.000	MWD+IFR1+MS
26100.000	90.000	179.676	10017.997	131.703	0.000	125.169	-0.000	131.703	0.000	0.000	125.255	48.503	1.985	MWD+IFR1+MS
26200.000	90.000	179.676	10017.997	132.472	0.000	125.901	-0.000	132.472	0.000	0.000	125.987	48.579	1.970	MWD+IFR1+MS
26300.000	90.000	179.676	10017.997	133.240	0.000	126.635	-0.000	133.240	0.000	0.000	126.720	48.655	1.955	MWD+IFR1+MS
26400.000	90.000	179.676	10017.997	134.009	0.000	127.368	-0.000	134.009	0.000	0.000	127.453	48.732	1.941	MWD+IFR1+MS
26500.000	90.000	179.676	10017.997	134.778	0.000	128.102	-0.000	134.778	0.000	0.000	128.186	48.808	1.927	MWD+IFR1+MS
26600.000	90.000	179.676	10017.997	135.547	0.000	128.836	-0.000	135.547	0.000	0.000	128.920	48.885	1.912	MWD+IFR1+MS
26700.000	90.000	179.676	10017.997	136.316	0.000	129.570	-0.000	136.316	0.000	0.000	129.654	48.963	1.899	MWD+IFR1+MS
26800.000	90.000	179.676	10017.997	137.085	0.000	130.305	-0.000	137.085	0.000	0.000	130.389	49.041	1.885	MWD+IFR1+MS
26900.000	90.000	179.676	10017.997	137.855	0.000	131.041	-0.000	137.855	0.000	0.000	131.123	49.119	1.871	MWD+IFR1+MS
27000.000	90.000	179.676	10017.997	138.625	0.000	131.776	-0.000	138.625	0.000	0.000	131.858	49.197	1.858	MWD+IFR1+MS
27100.000	90.000	179.676	10017.997	139.395	0.000	132.512	-0.000	139.395	0.000	0.000	132.594	49.276	1.844	MWD+IFR1+MS
27200.000	90.000	179.676	10017.997	140.165	0.000	133.248	-0.000	140.165	0.000	0.000	133.330	49.355	1.831	MWD+IFR1+MS
27300.000	90.000	179.676	10017.997	140.935	0.000	133.985	-0.000	140.935	0.000	0.000	134.066	49.435	1.818	MWD+IFR1+MS
27400.000	90.000	179.676	10017.997	141.706	0.000	134.722	-0.000	141.706	0.000	0.000	134.802	49.515	1.806	MWD+IFR1+MS
27500.000	90.000	179.676	10017.997	142.476	0.000	135.459	-0.000	142.476	0.000	0.000	135.539	49.595	1.793	MWD+IFR1+MS
27600.000	90.000	179.676	10017.997	143.247	0.000	136.197	-0.000	143.247	0.000	0.000	136.276	49.676	1.781	MWD+IFR1+MS
27700.000	90.000	179.676	10017.997	144.018	0.000	136.935	-0.000	144.018	0.000	0.000	137.014	49.756	1.768	MWD+IFR1+MS
27800.000	90.000	179.676	10017.997	144.789	0.000	137.673	-0.000	144.789	0.000	0.000	137.752	49.838	1.756	MWD+IFR1+MS
27900.000	90.000	179.676	10017.997	145.560	0.000	138.411	-0.000	145.560	0.000	0.000	138.490	49.919	1.744	MWD+IFR1+MS
28000.000	90.000	179.676	10017.997	146.331	0.000	139.150	-0.000	146.331	0.000	0.000	139.228	50.001	1.732	MWD+IFR1+MS
28100.000	90.000	179.676	10017.997	147.103	0.000	139.889	-0.000	147.103	0.000	0.000	139.967	50.083	1.720	MWD+IFR1+MS
28200.000	90.000	179.676	10017.997	147.874	0.000	140.628	-0.000	147.874	0.000	0.000	140.706	50.166	1.709	MWD+IFR1+MS
28248.639	90.000	179.676	10017.997	148.249	0.000	140.987	-0.000	148.249	0.000	0.000	141.064	50.206	1.703	MWD+IFR1+MS
28298.743	90.000	179.676	10017.997	148.636	0.000	141.357	-0.000	148.636	0.000	0.000	141.434	50.248	1.698	MWD+IFR1+MS

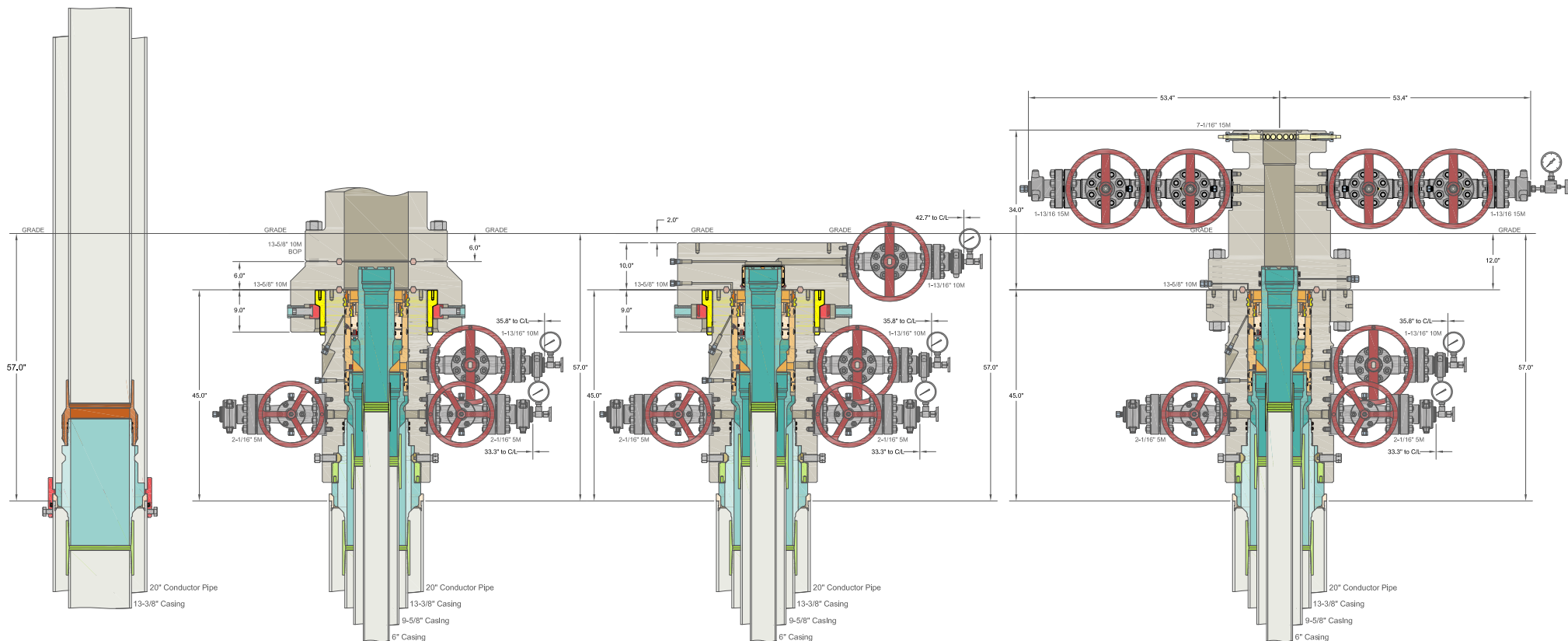
## Plan Targets

Poker Lake Unit 20 DTD South 111H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 4	10320.87	440362.30	630731.10	6764.00	RECTANGLE



SHL 1	12445.51	439500.41	631670.28	8239.70	RECTANGLE
LTP 4	28199.19	422010.80	630834.20	6764.00	RECTANGLE
BHL 4	28251.60	421960.80	630834.40	6764.00	RECTANGLE



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC		XTO ENERGY INC DELAWARE BASIN	
(20") x 13-3/8" x 9-5/8" x 6" MBU-3T-CFL-R-DBLO-SF Wellhead With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And Drilling & Skid Configurations		DRAWN	DLE
		APPRV	04NOV22
		DRAWING NO.	HBE0000833

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
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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 356467

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 356467
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	6/21/2024