U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

04/04/2024

Well Name: POKER LAKE UNIT 19 DTD	**Well Location:** T24S / R30E / SEC 19 / NWNE /	**County or Parish/State:**
Well Number: 322H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMNM002860	**Unit or CA Name:**	**Unit or CA Number:** NMNM07016Z
US Well Number: 3001553835	**Well Status:** Approved Application for Permit to Drill	**Operator:** XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2777490

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/29/2024

Time Sundry Submitted: 05:05

Date proposed operation will begin: 03/21/2024

Procedure Description: XTO Permian Operating, LLC. respectfully requests approval to make the following changes to the approved APD. Changes to include SHL, FTP, LTP, BHL, casing sizes, cement, proposed total depth, and formation (pool). FROM: TO: SHL: 1201' FNL & 2425' FEL of Section 19-T24S-R30E 1146' FNL & 2425' FEL of Section 19-T24S-R30E FTP: 100' FSL & 2530' FWL of Section 18-T24S-R30E 100' FNL & 1962' FEL of Section 19-T24S-R30E LTP: 2540' FSL & 2530' FWL of Section 31-T23S-R30E 100' FSL & 1975' FEL of Section 31-T25S-R30E BHL: 2590' FSL & 2530' FWL of Section 31-T23S-R30E 50' FSL & 1975' FEL of Section 31-T25S-R30E Proposed total depth will change from 29528' MD; 10774' TVD (Wolfcamp) to 24833' MD; TVD 9297' (Bone Springs). See attached Drilling Plan for updated cement and casing program. Attachments: C-102, Drilling Plan, Directional Drilling Plan, MBS, BOP Variance, Well Control Plan

NOI Attachments

Procedure Description

Well_Plan_Report____Poker_Lake_Unit_19_DTD_South_322H_20240229170509.pdf

POKER_LAKE_UNIT_19_DTD_322H_C_102_FINAL_20240229170508.pdf

BOP_Variance_new_Language_BOP_BTV_20240229170508.pdf

PLU_19_DTD_322H_Pad_C_Drilling_Plan_20240229170508.pdf

3_String_Bighole_SDT_2856_1_20240229170508.pdf

Well_Control_Plan_w_CFR_43_3172_20240229170508.pdf

Well Name: POKER LAKE UNIT 19 DTD

Well Location: T24S / R30E / SEC 19 / NWNE /

County or Parish/State:

Well Number: 322H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM002860

Unit or CA Name:

Unit or CA Number: NMNM07016Z

US Well Number: 3001553835

Well Status: Approved Application for Permit to Drill

Operator: XTO PERMIAN OPERATING LLC

Conditions of Approval

Additional

Sec19_24S_30E_NMP_Sundry_2777490_Poker_Lake_Unit_19_DTD_322H_COAs_20240328103053.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: TERRA SEBASTIAN

Signed on: FEB 29, 2024 05:05 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Advisor

Street Address: 6401 HOLIDAY HILL ROAD SUITE 200

City: MIDLAND **State:** TX

Phone: (432) 999-3107

Email address: TERRA.B.SEBASTIAN@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: 04/04/2024

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ 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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

Attachments: C-102, Drilling Plan, Directional Drilling Plan, MBS, BOP Variance, Well Control Plan

Location of Well

0. SHL: NWNE / 1201 FNL / 2425 FEL / TWSP: 24S / RANGE: 30E / SECTION: 19 / LAT: 32.206975 / LONG: -103.920028 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 330 FSL / 2530 FWL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.22532 / LONG: -103.92136 (TVD: 10774 feet, MD: 16500 feet)

PPP: SESW / 100 FSL / 2530 FWL / TWSP: 24S / RANGE: 30E / SECTION: 18 / LAT: 32.210537 / LONG: -103.921333 (TVD: 10774 feet, MD: 11200 feet)

PPP: NENW / 330 FSL / 2530 FWL / TWSP: 24S / RANGE: 30E / SECTION: 6 / LAT: 32.25076 / LONG: -103.92153 (TVD: 10774 feet, MD: 25800 feet)

BHL: NESW / 2590 FSL / 2530 FWL / TWSP: 23S / RANGE: 30E / SECTION: 31 / LAT: 32.261079 / LONG: -103.921384 (TVD: 10774 feet, MD: 29528 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 19 DTD 322H
LOCATION:	Sec 19-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2777490** on 03/28/2024. Any previous COAs not addressed within the updated COAs still apply.*

COA

H_2S	◉ No	○ Yes		
Potash / WIPP	◉ None	○ Secretary	○ R-111-P	☐ WIPP
Cave / Karst	○ Low	◉ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☑ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☑ Break Testing	☐ Water Disposal	☐ COM	☑ Unit
Variance	☑ Flex Hose	☑ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☑ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☐ **Batch APD / Sundry**				

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 430 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.**

❖ 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 13-3/8" X 9-5/8" 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 9-5/8" casing to surface after the second stage BH to verify TOC.
Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

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

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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

GENERAL REQUIREMENTS

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

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

Eddy County (API No. / US Well No. contains 30-015-#####)
Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@blm.gov; (575) 361-2822

Lea County (API No. / US Well No. contains 30-025-#####)
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240; (575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80,

or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. **Wait on cement (WOC) for Potash Areas:** After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. **Wait on cement (WOC) for Water Basin:** After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of

API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
    e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
    b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
e. The results of the test shall be reported to the appropriate BLM office.
f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

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

D. **WASTE MATERIAL AND FLUIDS:** All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Well Plan Report - Poker Lake Unit 19 DTD South 322H

Measured Depth:	24833.66 ft
TVD RKB:	9297.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439273.00 ft
Easting:	627984.70 ft
RKB:	3212.00 ft
Ground Level:	3180.00 ft
North Reference:	Grid
Convergence Angle:	0.22 Deg

Plan Sections Poker Lake Unit 19 DTD South 322H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1752.90	13.06	23.25	1747.26	68.06	29.24	2.00	0.00	2.00	
6172.66	13.06	23.25	6052.74	985.54	423.46	0.00	0.00	0.00	
6825.56	0.00	0.00	6700.00	1053.60	452.70	-2.00	0.00	2.00	
8706.36	0.00	0.00	8580.80	1053.60	452.70	0.00	0.00	0.00	
9831.36	90.00	179.73	9297.00	337.41	456.14	8.00	0.00	8.00	
10398.73	90.00	179.73	9297.00	-229.95	458.86	0.00	0.00	0.00	LTP 22
24833.66	90.00	179.73	9297.00	-14664.71	528.14	0.00	0.00	0.00	BHL 22

Position Uncertainty Poker Lake Unit 19 DTD South 322H

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	2.309	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	2.441	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	2.528	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	2.577	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	2.630	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	23.252	1199.980	5.231	0.000	4.292	0.000	2.686	0.000	0.000	5.303	4.205	128.685	MWD+IFR1+MS
1300.000	4.000	23.252	1299.838	5.990	0.000	4.675	0.000	2.746	0.000	0.000	6.088	4.560	128.075	MWD+IFR1+MS
1400.000	6.000	23.252	1399.452	6.676	0.000	5.053	0.000	2.811	0.000	0.000	6.800	4.914	127.771	MWD+IFR1+MS
1500.000	8.000	23.252	1498.702	7.307	0.000	5.428	0.000	2.883	0.000	0.000	7.458	5.269	127.586	MWD+IFR1+MS
1600.000	10.000	23.252	1597.465	7.895	0.000	5.801	0.000	2.966	0.000	0.000	8.075	5.624	127.463	MWD+IFR1+MS
1700.000	12.000	23.252	1695.623	8.449	0.000	6.174	0.000	3.060	0.000	0.000	8.660	5.982	127.380	MWD+IFR1+MS
1752.896	13.058	23.252	1747.259	8.615	0.000	6.360	0.000	3.098	0.000	0.000	8.845	6.171	127.304	MWD+IFR1+MS
1800.000	13.058	23.252	1793.145	8.745	0.000	6.525	0.000	3.132	0.000	0.000	8.972	6.341	127.262	MWD+IFR1+MS
1900.000	13.058	23.252	1890.559	9.025	0.000	6.889	0.000	3.214	0.000	0.000	9.243	6.712	127.373	MWD+IFR1+MS
2000.000	13.058	23.252	1987.973	9.321	0.000	7.267	0.000	3.300	0.000	0.000	9.534	7.091	127.686	MWD+IFR1+MS
2100.000	13.058	23.252	2085.387	9.625	0.000	7.646	0.000	3.390	0.000	0.000	9.832	7.471	127.994	MWD+IFR1+MS
2200.000	13.058	23.252	2182.802	9.934	0.000	8.026	0.000	3.484	0.000	0.000	10.135	7.852	128.297	MWD+IFR1+MS
2300.000	13.058	23.252	2280.216	10.250	0.000	8.408	0.000	3.580	0.000	0.000	10.444	8.234	128.595	MWD+IFR1+MS
2400.000	13.058	23.252	2377.630	10.570	0.000	8.789	0.000	3.678	0.000	0.000	10.757	8.616	128.889	MWD+IFR1+MS
2500.000	13.058	23.252	2475.044	10.895	0.000	9.172	0.000	3.780	0.000	0.000	11.075	8.999	129.179	MWD+IFR1+MS
2600.000	13.058	23.252	2572.458	11.225	0.000	9.555	0.000	3.884	0.000	0.000	11.398	9.383	129.466	MWD+IFR1+MS
2700.000	13.058	23.252	2669.873	11.559	0.000	9.939	0.000	3.990	0.000	0.000	11.723	9.766	129.749	MWD+IFR1+MS
2800.000	13.058	23.252	2767.287	11.896	0.000	10.323	0.000	4.098	0.000	0.000	12.053	10.151	130.028	MWD+IFR1+MS
2900.000	13.058	23.252	2864.701	12.236	0.000	10.707	0.000	4.208	0.000	0.000	12.385	10.535	130.304	MWD+IFR1+MS

3000.000	13.058	23.252	2962.115	12.580	0.000	11.092	0.000	4.320	0.000	0.000	12.720	10.920	130.578	MWD+IFR1+MS
3100.000	13.058	23.252	3059.530	12.926	0.000	11.477	0.000	4.434	0.000	0.000	13.058	11.306	130.849	MWD+IFR1+MS
3200.000	13.058	23.252	3156.944	13.275	0.000	11.862	0.000	4.550	0.000	0.000	13.399	11.691	131.117	MWD+IFR1+MS
3300.000	13.058	23.252	3254.358	13.626	0.000	12.248	0.000	4.668	0.000	0.000	13.741	12.077	131.383	MWD+IFR1+MS
3400.000	13.058	23.252	3351.772	13.979	0.000	12.634	0.000	4.787	0.000	0.000	14.086	12.463	131.647	MWD+IFR1+MS
3500.000	13.058	23.252	3449.186	14.335	0.000	13.020	0.000	4.908	0.000	0.000	14.433	12.849	131.909	MWD+IFR1+MS
3600.000	13.058	23.252	3546.601	14.692	0.000	13.406	0.000	5.031	0.000	0.000	14.782	13.235	132.169	MWD+IFR1+MS
3700.000	13.058	23.252	3644.015	15.052	0.000	13.793	0.000	5.156	0.000	0.000	15.132	13.622	132.427	MWD+IFR1+MS
3800.000	13.058	23.252	3741.429	15.412	0.000	14.179	0.000	5.282	0.000	0.000	15.484	14.008	132.684	MWD+IFR1+MS
3900.000	13.058	23.252	3838.843	15.775	0.000	14.566	0.000	5.409	0.000	0.000	15.837	14.395	132.939	MWD+IFR1+MS
4000.000	13.058	23.252	3936.257	16.138	0.000	14.953	0.000	5.539	0.000	0.000	16.192	14.782	133.194	MWD+IFR1+MS
4100.000	13.058	23.252	4033.672	16.504	0.000	15.340	0.000	5.670	0.000	0.000	16.548	15.169	133.447	MWD+IFR1+MS
4200.000	13.058	23.252	4131.086	16.870	0.000	15.727	0.000	5.802	0.000	0.000	16.906	15.556	133.699	MWD+IFR1+MS
4300.000	13.058	23.252	4228.500	17.237	0.000	16.114	0.000	5.936	0.000	0.000	17.264	15.943	133.951	MWD+IFR1+MS
4400.000	13.058	23.252	4325.914	17.606	0.000	16.502	0.000	6.072	0.000	0.000	17.624	16.331	134.202	MWD+IFR1+MS
4500.000	13.058	23.252	4423.329	17.975	0.000	16.889	0.000	6.209	0.000	0.000	17.985	16.718	134.452	MWD+IFR1+MS
4600.000	13.058	23.252	4520.743	18.346	0.000	17.277	0.000	6.348	0.000	0.000	18.346	17.106	134.702	MWD+IFR1+MS
4700.000	13.058	23.252	4618.157	18.718	0.000	17.664	0.000	6.488	0.000	0.000	18.709	17.493	134.952	MWD+IFR1+MS
4800.000	13.058	23.252	4715.571	19.090	0.000	18.052	0.000	6.630	0.000	0.000	19.072	17.881	-44.799	MWD+IFR1+MS
4900.000	13.058	23.252	4812.985	19.463	0.000	18.440	0.000	6.774	0.000	0.000	19.436	18.269	-44.549	MWD+IFR1+MS
5000.000	13.058	23.252	4910.400	19.837	0.000	18.828	0.000	6.919	0.000	0.000	19.801	18.657	-44.300	MWD+IFR1+MS
5100.000	13.058	23.252	5007.814	20.211	0.000	19.216	0.000	7.066	0.000	0.000	20.167	19.045	-44.050	MWD+IFR1+MS
5200.000	13.058	23.252	5105.228	20.587	0.000	19.604	0.000	7.215	0.000	0.000	20.533	19.433	-43.800	MWD+IFR1+MS
5300.000	13.058	23.252	5202.642	20.963	0.000	19.992	0.000	7.365	0.000	0.000	20.900	19.821	-43.549	MWD+IFR1+MS
5400.000	13.058	23.252	5300.057	21.339	0.000	20.380	0.000	7.517	0.000	0.000	21.268	20.209	-43.299	MWD+IFR1+MS
5500.000	13.058	23.252	5397.471	21.716	0.000	20.768	0.000	7.671	0.000	0.000	21.636	20.597	-43.047	MWD+IFR1+MS
5600.000	13.058	23.252	5494.885	22.094	0.000	21.156	0.000	7.826	0.000	0.000	22.005	20.985	-42.795	MWD+IFR1+MS
5700.000	13.058	23.252	5592.299	22.472	0.000	21.545	0.000	7.984	0.000	0.000	22.374	21.373	-42.542	MWD+IFR1+MS
5800.000	13.058	23.252	5689.713	22.851	0.000	21.933	0.000	8.143	0.000	0.000	22.744	21.762	-42.288	MWD+IFR1+MS
5900.000	13.058	23.252	5787.128	23.230	0.000	22.321	0.000	8.304	0.000	0.000	23.114	22.150	-42.034	MWD+IFR1+MS
6000.000	13.058	23.252	5884.542	23.609	0.000	22.710	0.000	8.467	0.000	0.000	23.485	22.538	-41.778	MWD+IFR1+MS
6100.000	13.058	23.252	5981.956	23.989	0.000	23.098	0.000	8.632	0.000	0.000	23.856	22.927	-41.521	MWD+IFR1+MS
6172.664	13.058	23.252	6052.741	24.263	0.000	23.378	0.000	8.752	0.000	0.000	24.122	23.208	-41.438	MWD+IFR1+MS

6200.000	12.511	23.252	6079.399	24.375	0.000	23.482	0.000	8.798	0.000	0.000	24.220	23.313	-41.447	MWD+IFR1+MS
6300.000	10.511	23.252	6177.383	24.806	0.000	23.859	0.000	8.968	0.000	0.000	24.620	23.695	-42.041	MWD+IFR1+MS
6400.000	8.511	23.252	6276.003	25.266	0.000	24.234	0.000	9.138	0.000	0.000	25.079	24.071	-43.270	MWD+IFR1+MS
6500.000	6.511	23.252	6375.140	25.686	0.000	24.599	0.000	9.300	0.000	0.000	25.531	24.437	-44.320	MWD+IFR1+MS
6600.000	4.511	23.252	6474.673	26.068	0.000	24.956	0.000	9.456	0.000	0.000	25.975	24.793	134.785	MWD+IFR1+MS
6700.000	2.511	23.252	6574.480	26.411	0.000	25.303	0.000	9.606	0.000	0.000	26.411	25.140	134.026	MWD+IFR1+MS
6800.000	0.511	23.252	6674.440	26.714	0.000	25.642	0.000	9.752	0.000	0.000	26.836	25.477	133.387	MWD+IFR1+MS
6825.560	0.000	0.000	6700.000	26.288	0.000	26.209	0.000	9.788	0.000	0.000	26.918	25.562	133.333	MWD+IFR1+MS
6900.000	0.000	0.000	6774.440	26.532	0.000	26.447	0.000	9.895	0.000	0.000	27.153	25.808	133.196	MWD+IFR1+MS
7000.000	0.000	0.000	6874.440	26.860	0.000	26.771	0.000	10.042	0.000	0.000	27.474	26.140	133.074	MWD+IFR1+MS
7100.000	0.000	0.000	6974.440	27.191	0.000	27.097	0.000	10.191	0.000	0.000	27.800	26.472	132.958	MWD+IFR1+MS
7200.000	0.000	0.000	7074.440	27.523	0.000	27.424	0.000	10.343	0.000	0.000	28.126	26.805	132.843	MWD+IFR1+MS
7300.000	0.000	0.000	7174.440	27.856	0.000	27.752	0.000	10.498	0.000	0.000	28.453	27.139	132.731	MWD+IFR1+MS
7400.000	0.000	0.000	7274.440	28.189	0.000	28.080	0.000	10.656	0.000	0.000	28.781	27.473	132.620	MWD+IFR1+MS
7500.000	0.000	0.000	7374.440	28.523	0.000	28.410	0.000	10.816	0.000	0.000	29.110	27.808	132.510	MWD+IFR1+MS
7600.000	0.000	0.000	7474.440	28.857	0.000	28.740	0.000	10.980	0.000	0.000	29.439	28.143	132.402	MWD+IFR1+MS
7700.000	0.000	0.000	7574.440	29.192	0.000	29.070	0.000	11.147	0.000	0.000	29.769	28.479	132.295	MWD+IFR1+MS
7800.000	0.000	0.000	7674.440	29.527	0.000	29.402	0.000	11.317	0.000	0.000	30.100	28.815	132.190	MWD+IFR1+MS
7900.000	0.000	0.000	7774.440	29.863	0.000	29.733	0.000	11.489	0.000	0.000	30.431	29.152	132.087	MWD+IFR1+MS
8000.000	0.000	0.000	7874.440	30.200	0.000	30.066	0.000	11.665	0.000	0.000	30.763	29.490	131.984	MWD+IFR1+MS
8100.000	0.000	0.000	7974.440	30.537	0.000	30.399	0.000	11.844	0.000	0.000	31.095	29.827	131.883	MWD+IFR1+MS
8200.000	0.000	0.000	8074.440	30.874	0.000	30.733	0.000	12.026	0.000	0.000	31.428	30.166	131.784	MWD+IFR1+MS
8300.000	0.000	0.000	8174.440	31.212	0.000	31.067	0.000	12.211	0.000	0.000	31.762	30.505	131.686	MWD+IFR1+MS
8400.000	0.000	0.000	8274.440	31.551	0.000	31.402	0.000	12.399	0.000	0.000	32.096	30.844	131.589	MWD+IFR1+MS
8500.000	0.000	0.000	8374.440	31.889	0.000	31.737	0.000	12.590	0.000	0.000	32.431	31.184	131.493	MWD+IFR1+MS
8600.000	0.000	0.000	8474.440	32.229	0.000	32.073	0.000	12.784	0.000	0.000	32.766	31.524	131.399	MWD+IFR1+MS
8706.360	0.000	0.000	8580.800	32.591	0.000	32.431	0.000	12.994	0.000	0.000	33.125	31.886	131.305	MWD+IFR1+MS
8800.000	7.491	179.725	8674.173	32.378	0.000	32.727	-0.000	13.185	0.000	0.000	33.528	32.271	126.535	MWD+IFR1+MS
8900.000	15.491	179.725	8772.089	32.631	0.000	33.009	-0.000	13.487	0.000	0.000	34.727	32.750	110.649	MWD+IFR1+MS
9000.000	23.491	179.725	8866.282	32.463	0.000	33.266	-0.000	13.998	0.000	0.000	35.960	33.069	104.542	MWD+IFR1+MS
9100.000	31.491	179.725	8954.918	31.862	0.000	33.496	-0.000	14.785	0.000	0.000	37.031	33.322	101.909	MWD+IFR1+MS
9200.000	39.491	179.725	9036.272	30.920	0.000	33.699	-0.000	15.872	0.000	0.000	37.906	33.533	100.612	MWD+IFR1+MS
9300.000	47.491	179.725	9108.762	29.758	0.000	33.875	-0.000	17.240	0.000	0.000	38.581	33.710	99.979	MWD+IFR1+MS

9400.000	55.491	179.725	9170.974	28.527	0.000	34.026	-0.000	18.841	0.000	0.000	39.066	33.857	99.741	MWD+IFR1+MS
9500.000	63.491	179.725	9221.700	27.408	0.000	34.154	-0.000	20.610	0.000	0.000	39.381	33.977	99.767	MWD+IFR1+MS
9600.000	71.491	179.725	9259.952	26.597	0.000	34.258	-0.000	22.476	0.000	0.000	39.557	34.071	99.977	MWD+IFR1+MS
9700.000	79.491	179.725	9284.984	26.277	0.000	34.341	-0.000	24.373	0.000	0.000	39.632	34.142	100.297	MWD+IFR1+MS
9800.000	87.491	179.725	9296.311	26.578	0.000	34.402	-0.000	26.240	0.000	0.000	39.653	34.191	100.645	MWD+IFR1+MS
9831.360	90.000	179.725	9296.997	26.368	0.000	34.414	-0.000	26.368	0.000	0.000	39.656	34.200	100.733	MWD+IFR1+MS
9900.000	90.000	179.725	9296.997	26.528	0.000	34.445	-0.000	26.528	0.000	0.000	39.663	34.223	100.939	MWD+IFR1+MS
10000.000	90.000	179.725	9296.997	26.748	0.000	34.513	-0.000	26.748	0.000	0.000	39.674	34.280	101.287	MWD+IFR1+MS
10100.000	90.000	179.725	9296.997	26.990	0.000	34.605	-0.000	26.990	0.000	0.000	39.686	34.359	101.688	MWD+IFR1+MS
10200.000	90.000	179.725	9296.997	27.253	0.000	34.719	-0.000	27.253	0.000	0.000	39.701	34.459	102.145	MWD+IFR1+MS
10300.000	90.000	179.725	9296.997	27.536	0.000	34.855	-0.000	27.536	0.000	0.000	39.718	34.580	102.664	MWD+IFR1+MS
10398.729	90.000	179.725	9296.997	27.834	0.000	35.011	-0.000	27.834	0.000	0.000	39.736	34.718	103.246	MWD+IFR1+MS
10400.000	90.000	179.725	9296.997	27.838	0.000	35.013	-0.000	27.838	0.000	0.000	39.737	34.720	103.254	MWD+IFR1+MS
10500.000	90.000	179.725	9296.997	28.154	0.000	35.188	-0.000	28.154	0.000	0.000	39.758	34.875	103.917	MWD+IFR1+MS
10600.000	90.000	179.725	9296.997	28.493	0.000	35.388	-0.000	28.493	0.000	0.000	39.783	35.053	104.686	MWD+IFR1+MS
10700.000	90.000	179.725	9296.997	28.850	0.000	35.609	-0.000	28.850	0.000	0.000	39.812	35.249	105.566	MWD+IFR1+MS
10800.000	90.000	179.725	9296.997	29.223	0.000	35.850	-0.000	29.223	0.000	0.000	39.845	35.461	106.579	MWD+IFR1+MS
10900.000	90.000	179.725	9296.997	29.612	0.000	36.111	-0.000	29.612	0.000	0.000	39.882	35.688	107.750	MWD+IFR1+MS
11000.000	90.000	179.725	9296.997	30.017	0.000	36.392	-0.000	30.017	0.000	0.000	39.927	35.930	109.109	MWD+IFR1+MS
11100.000	90.000	179.725	9296.997	30.436	0.000	36.691	-0.000	30.436	0.000	0.000	39.978	36.183	110.692	MWD+IFR1+MS
11200.000	90.000	179.725	9296.997	30.870	0.000	37.009	-0.000	30.870	0.000	0.000	40.039	36.446	112.545	MWD+IFR1+MS
11300.000	90.000	179.725	9296.997	31.317	0.000	37.345	-0.000	31.317	0.000	0.000	40.112	36.716	114.717	MWD+IFR1+MS
11400.000	90.000	179.725	9296.997	31.778	0.000	37.698	-0.000	31.778	0.000	0.000	40.199	36.990	117.261	MWD+IFR1+MS
11500.000	90.000	179.725	9296.997	32.251	0.000	38.069	-0.000	32.251	0.000	0.000	40.305	37.262	120.224	MWD+IFR1+MS
11600.000	90.000	179.725	9296.997	32.736	0.000	38.456	-0.000	32.736	0.000	0.000	40.434	37.529	123.634	MWD+IFR1+MS
11700.000	90.000	179.725	9296.997	33.232	0.000	38.860	-0.000	33.232	0.000	0.000	40.592	37.784	127.476	MWD+IFR1+MS
11800.000	90.000	179.725	9296.997	33.740	0.000	39.279	-0.000	33.740	0.000	0.000	40.783	38.021	131.670	MWD+IFR1+MS
11900.000	90.000	179.725	9296.997	34.257	0.000	39.713	-0.000	34.257	0.000	0.000	41.012	38.236	-43.936	MWD+IFR1+MS
12000.000	90.000	179.725	9296.997	34.785	0.000	40.162	-0.000	34.785	0.000	0.000	41.281	38.426	-39.543	MWD+IFR1+MS
12100.000	90.000	179.725	9296.997	35.323	0.000	40.624	-0.000	35.323	0.000	0.000	41.591	38.590	-35.353	MWD+IFR1+MS
12200.000	90.000	179.725	9296.997	35.869	0.000	41.101	-0.000	35.869	0.000	0.000	41.940	38.730	-31.515	MWD+IFR1+MS
12300.000	90.000	179.725	9296.997	36.425	0.000	41.591	-0.000	36.425	0.000	0.000	42.324	38.848	-28.108	MWD+IFR1+MS
12400.000	90.000	179.725	9296.997	36.988	0.000	42.093	-0.000	36.988	0.000	0.000	42.739	38.948	-25.145	MWD+IFR1+MS

12500.000	90.000	179.725	9296.997	37.560	0.000	42.608	-0.000	37.560	0.000	0.000	43.181	39.034	-22.597	MWD+IFR1+MS
12600.000	90.000	179.725	9296.997	38.139	0.000	43.134	-0.000	38.139	0.000	0.000	43.648	39.108	-20.417	MWD+IFR1+MS
12700.000	90.000	179.725	9296.997	38.725	0.000	43.672	-0.000	38.725	0.000	0.000	44.136	39.172	-18.553	MWD+IFR1+MS
12800.000	90.000	179.725	9296.997	39.318	0.000	44.221	-0.000	39.318	0.000	0.000	44.642	39.230	-16.952	MWD+IFR1+MS
12900.000	90.000	179.725	9296.997	39.918	0.000	44.781	-0.000	39.918	0.000	0.000	45.165	39.282	-15.573	MWD+IFR1+MS
13000.000	90.000	179.725	9296.997	40.524	0.000	45.351	-0.000	40.524	0.000	0.000	45.704	39.329	-14.378	MWD+IFR1+MS
13100.000	90.000	179.725	9296.997	41.137	0.000	45.930	-0.000	41.137	0.000	0.000	46.257	39.373	-13.336	MWD+IFR1+MS
13200.000	90.000	179.725	9296.997	41.755	0.000	46.519	-0.000	41.755	0.000	0.000	46.822	39.413	-12.422	MWD+IFR1+MS
13300.000	90.000	179.725	9296.997	42.378	0.000	47.117	-0.000	42.378	0.000	0.000	47.400	39.452	-11.616	MWD+IFR1+MS
13400.000	90.000	179.725	9296.997	43.007	0.000	47.724	-0.000	43.007	0.000	0.000	47.988	39.489	-10.900	MWD+IFR1+MS
13500.000	90.000	179.725	9296.997	43.641	0.000	48.340	-0.000	43.641	0.000	0.000	48.587	39.524	-10.263	MWD+IFR1+MS
13600.000	90.000	179.725	9296.997	44.279	0.000	48.963	-0.000	44.279	0.000	0.000	49.196	39.558	-9.691	MWD+IFR1+MS
13700.000	90.000	179.725	9296.997	44.923	0.000	49.594	-0.000	44.923	0.000	0.000	49.814	39.591	-9.176	MWD+IFR1+MS
13800.000	90.000	179.725	9296.997	45.571	0.000	50.233	-0.000	45.571	0.000	0.000	50.441	39.623	-8.711	MWD+IFR1+MS
13900.000	90.000	179.725	9296.997	46.223	0.000	50.879	-0.000	46.223	0.000	0.000	51.076	39.655	-8.288	MWD+IFR1+MS
14000.000	90.000	179.725	9296.997	46.879	0.000	51.532	-0.000	46.879	0.000	0.000	51.719	39.687	-7.903	MWD+IFR1+MS
14100.000	90.000	179.725	9296.997	47.539	0.000	52.191	-0.000	47.539	0.000	0.000	52.370	39.718	-7.551	MWD+IFR1+MS
14200.000	90.000	179.725	9296.997	48.202	0.000	52.857	-0.000	48.202	0.000	0.000	53.028	39.749	-7.227	MWD+IFR1+MS
14300.000	90.000	179.725	9296.997	48.870	0.000	53.530	-0.000	48.870	0.000	0.000	53.693	39.779	-6.929	MWD+IFR1+MS
14400.000	90.000	179.725	9296.997	49.540	0.000	54.208	-0.000	49.540	0.000	0.000	54.364	39.810	-6.654	MWD+IFR1+MS
14500.000	90.000	179.725	9296.997	50.214	0.000	54.892	-0.000	50.214	0.000	0.000	55.041	39.841	-6.400	MWD+IFR1+MS
14600.000	90.000	179.725	9296.997	50.892	0.000	55.581	-0.000	50.892	0.000	0.000	55.725	39.872	-6.164	MWD+IFR1+MS
14700.000	90.000	179.725	9296.997	51.572	0.000	56.276	-0.000	51.572	0.000	0.000	56.414	39.903	-5.944	MWD+IFR1+MS
14800.000	90.000	179.725	9296.997	52.255	0.000	56.976	-0.000	52.255	0.000	0.000	57.109	39.934	-5.739	MWD+IFR1+MS
14900.000	90.000	179.725	9296.997	52.941	0.000	57.681	-0.000	52.941	0.000	0.000	57.809	39.965	-5.548	MWD+IFR1+MS
15000.000	90.000	179.725	9296.997	53.630	0.000	58.391	-0.000	53.630	0.000	0.000	58.514	39.996	-5.368	MWD+IFR1+MS
15100.000	90.000	179.725	9296.997	54.321	0.000	59.105	-0.000	54.321	0.000	0.000	59.224	40.028	-5.200	MWD+IFR1+MS
15200.000	90.000	179.725	9296.997	55.015	0.000	59.824	-0.000	55.015	0.000	0.000	59.938	40.060	-5.042	MWD+IFR1+MS
15300.000	90.000	179.725	9296.997	55.711	0.000	60.547	-0.000	55.711	0.000	0.000	60.658	40.092	-4.893	MWD+IFR1+MS
15400.000	90.000	179.725	9296.997	56.410	0.000	61.274	-0.000	56.410	0.000	0.000	61.381	40.125	-4.753	MWD+IFR1+MS
15500.000	90.000	179.725	9296.997	57.111	0.000	62.005	-0.000	57.111	0.000	0.000	62.109	40.157	-4.620	MWD+IFR1+MS
15600.000	90.000	179.725	9296.997	57.814	0.000	62.740	-0.000	57.814	0.000	0.000	62.841	40.191	-4.495	MWD+IFR1+MS
15700.000	90.000	179.725	9296.997	58.519	0.000	63.479	-0.000	58.519	0.000	0.000	63.576	40.224	-4.376	MWD+IFR1+MS

15800.000	90.000	179.725	9296.997	59.226	0.000	64.221	-0.000	59.226	0.000	0.000	64.316	40.258	-4.264	MWD+IFR1+MS
15900.000	90.000	179.725	9296.997	59.935	0.000	64.967	-0.000	59.935	0.000	0.000	65.059	40.292	-4.157	MWD+IFR1+MS
16000.000	90.000	179.725	9296.997	60.646	0.000	65.716	-0.000	60.646	0.000	0.000	65.805	40.327	-4.055	MWD+IFR1+MS
16100.000	90.000	179.725	9296.997	61.358	0.000	66.468	-0.000	61.358	0.000	0.000	66.555	40.362	-3.959	MWD+IFR1+MS
16200.000	90.000	179.725	9296.997	62.073	0.000	67.223	-0.000	62.073	0.000	0.000	67.308	40.397	-3.867	MWD+IFR1+MS
16300.000	90.000	179.725	9296.997	62.789	0.000	67.982	-0.000	62.789	0.000	0.000	68.064	40.433	-3.779	MWD+IFR1+MS
16400.000	90.000	179.725	9296.997	63.507	0.000	68.743	-0.000	63.507	0.000	0.000	68.823	40.469	-3.695	MWD+IFR1+MS
16500.000	90.000	179.725	9296.997	64.226	0.000	69.507	-0.000	64.226	0.000	0.000	69.585	40.505	-3.615	MWD+IFR1+MS
16600.000	90.000	179.725	9296.997	64.947	0.000	70.274	-0.000	64.947	0.000	0.000	70.350	40.542	-3.538	MWD+IFR1+MS
16700.000	90.000	179.725	9296.997	65.669	0.000	71.044	-0.000	65.669	0.000	0.000	71.118	40.579	-3.465	MWD+IFR1+MS
16800.000	90.000	179.725	9296.997	66.393	0.000	71.816	-0.000	66.393	0.000	0.000	71.888	40.617	-3.395	MWD+IFR1+MS
16900.000	90.000	179.725	9296.997	67.118	0.000	72.590	-0.000	67.118	0.000	0.000	72.661	40.655	-3.327	MWD+IFR1+MS
17000.000	90.000	179.725	9296.997	67.844	0.000	73.367	-0.000	67.844	0.000	0.000	73.436	40.694	-3.262	MWD+IFR1+MS
17100.000	90.000	179.725	9296.997	68.572	0.000	74.146	-0.000	68.572	0.000	0.000	74.214	40.733	-3.200	MWD+IFR1+MS
17200.000	90.000	179.725	9296.997	69.301	0.000	74.928	-0.000	69.301	0.000	0.000	74.994	40.772	-3.141	MWD+IFR1+MS
17300.000	90.000	179.725	9296.997	70.031	0.000	75.712	-0.000	70.031	0.000	0.000	75.776	40.812	-3.083	MWD+IFR1+MS
17400.000	90.000	179.725	9296.997	70.762	0.000	76.497	-0.000	70.762	0.000	0.000	76.560	40.852	-3.028	MWD+IFR1+MS
17500.000	90.000	179.725	9296.997	71.494	0.000	77.285	-0.000	71.494	0.000	0.000	77.347	40.893	-2.975	MWD+IFR1+MS
17600.000	90.000	179.725	9296.997	72.228	0.000	78.075	-0.000	72.228	0.000	0.000	78.135	40.934	-2.923	MWD+IFR1+MS
17700.000	90.000	179.725	9296.997	72.963	0.000	78.867	-0.000	72.963	0.000	0.000	78.926	40.976	-2.874	MWD+IFR1+MS
17800.000	90.000	179.725	9296.997	73.698	0.000	79.660	-0.000	73.698	0.000	0.000	79.718	41.017	-2.826	MWD+IFR1+MS
17900.000	90.000	179.725	9296.997	74.435	0.000	80.456	-0.000	74.435	0.000	0.000	80.513	41.060	-2.780	MWD+IFR1+MS
18000.000	90.000	179.725	9296.997	75.172	0.000	81.253	-0.000	75.172	0.000	0.000	81.309	41.103	-2.735	MWD+IFR1+MS
18100.000	90.000	179.725	9296.997	75.911	0.000	82.052	-0.000	75.911	0.000	0.000	82.106	41.146	-2.692	MWD+IFR1+MS
18200.000	90.000	179.725	9296.997	76.651	0.000	82.852	-0.000	76.651	0.000	0.000	82.906	41.190	-2.651	MWD+IFR1+MS
18300.000	90.000	179.725	9296.997	77.391	0.000	83.654	-0.000	77.391	0.000	0.000	83.707	41.234	-2.610	MWD+IFR1+MS
18400.000	90.000	179.725	9296.997	78.132	0.000	84.458	-0.000	78.132	0.000	0.000	84.510	41.278	-2.571	MWD+IFR1+MS
18500.000	90.000	179.725	9296.997	78.874	0.000	85.263	-0.000	78.874	0.000	0.000	85.314	41.323	-2.534	MWD+IFR1+MS
18600.000	90.000	179.725	9296.997	79.617	0.000	86.070	-0.000	79.617	0.000	0.000	86.120	41.369	-2.497	MWD+IFR1+MS
18700.000	90.000	179.725	9296.997	80.361	0.000	86.878	-0.000	80.361	0.000	0.000	86.927	41.415	-2.462	MWD+IFR1+MS
18800.000	90.000	179.725	9296.997	81.105	0.000	87.688	-0.000	81.105	0.000	0.000	87.736	41.461	-2.427	MWD+IFR1+MS
18900.000	90.000	179.725	9296.997	81.851	0.000	88.499	-0.000	81.851	0.000	0.000	88.546	41.508	-2.394	MWD+IFR1+MS
19000.000	90.000	179.725	9296.997	82.596	0.000	89.311	-0.000	82.596	0.000	0.000	89.357	41.555	-2.361	MWD+IFR1+MS

19100.000	90.000	179.725	9296.997	83.343	0.000	90.124	-0.000	83.343	0.000	0.000	90.170	41.602	-2.330	MWD+IFR1+MS
19200.000	90.000	179.725	9296.997	84.090	0.000	90.939	-0.000	84.090	0.000	0.000	90.984	41.650	-2.299	MWD+IFR1+MS
19300.000	90.000	179.725	9296.997	84.839	0.000	91.755	-0.000	84.839	0.000	0.000	91.799	41.699	-2.270	MWD+IFR1+MS
19400.000	90.000	179.725	9296.997	85.587	0.000	92.572	-0.000	85.587	0.000	0.000	92.616	41.748	-2.241	MWD+IFR1+MS
19500.000	90.000	179.725	9296.997	86.337	0.000	93.391	-0.000	86.337	0.000	0.000	93.433	41.797	-2.213	MWD+IFR1+MS
19600.000	90.000	179.725	9296.997	87.087	0.000	94.210	-0.000	87.087	0.000	0.000	94.252	41.847	-2.185	MWD+IFR1+MS
19700.000	90.000	179.725	9296.997	87.837	0.000	95.031	-0.000	87.837	0.000	0.000	95.072	41.897	-2.159	MWD+IFR1+MS
19800.000	90.000	179.725	9296.997	88.588	0.000	95.852	-0.000	88.588	0.000	0.000	95.893	41.948	-2.133	MWD+IFR1+MS
19900.000	90.000	179.725	9296.997	89.340	0.000	96.675	-0.000	89.340	0.000	0.000	96.715	41.999	-2.108	MWD+IFR1+MS
20000.000	90.000	179.725	9296.997	90.092	0.000	97.499	-0.000	90.092	0.000	0.000	97.538	42.050	-2.083	MWD+IFR1+MS
20100.000	90.000	179.725	9296.997	90.845	0.000	98.323	-0.000	90.845	0.000	0.000	98.362	42.102	-2.059	MWD+IFR1+MS
20200.000	90.000	179.725	9296.997	91.599	0.000	99.149	-0.000	91.599	0.000	0.000	99.187	42.154	-2.036	MWD+IFR1+MS
20300.000	90.000	179.725	9296.997	92.352	0.000	99.975	-0.000	92.352	0.000	0.000	100.013	42.207	-2.013	MWD+IFR1+MS
20400.000	90.000	179.725	9296.997	93.107	0.000	100.803	-0.000	93.107	0.000	0.000	100.840	42.260	-1.991	MWD+IFR1+MS
20500.000	90.000	179.725	9296.997	93.862	0.000	101.631	-0.000	93.862	0.000	0.000	101.668	42.314	-1.969	MWD+IFR1+MS
20600.000	90.000	179.725	9296.997	94.617	0.000	102.460	-0.000	94.617	0.000	0.000	102.497	42.368	-1.948	MWD+IFR1+MS
20700.000	90.000	179.725	9296.997	95.373	0.000	103.291	-0.000	95.373	0.000	0.000	103.326	42.422	-1.928	MWD+IFR1+MS
20800.000	90.000	179.725	9296.997	96.129	0.000	104.121	-0.000	96.129	0.000	0.000	104.157	42.477	-1.907	MWD+IFR1+MS
20900.000	90.000	179.725	9296.997	96.886	0.000	104.953	-0.000	96.886	0.000	0.000	104.988	42.532	-1.888	MWD+IFR1+MS
21000.000	90.000	179.725	9296.997	97.643	0.000	105.786	-0.000	97.643	0.000	0.000	105.820	42.588	-1.869	MWD+IFR1+MS
21100.000	90.000	179.725	9296.997	98.401	0.000	106.619	-0.000	98.401	0.000	0.000	106.653	42.644	-1.850	MWD+IFR1+MS
21200.000	90.000	179.725	9296.997	99.159	0.000	107.453	-0.000	99.159	0.000	0.000	107.486	42.700	-1.831	MWD+IFR1+MS
21300.000	90.000	179.725	9296.997	99.918	0.000	108.288	-0.000	99.918	0.000	0.000	108.321	42.757	-1.814	MWD+IFR1+MS
21400.000	90.000	179.725	9296.997	100.677	0.000	109.123	-0.000	100.677	0.000	0.000	109.156	42.815	-1.796	MWD+IFR1+MS
21500.000	90.000	179.725	9296.997	101.436	0.000	109.960	-0.000	101.436	0.000	0.000	109.992	42.872	-1.779	MWD+IFR1+MS
21600.000	90.000	179.725	9296.997	102.196	0.000	110.796	-0.000	102.196	0.000	0.000	110.828	42.930	-1.762	MWD+IFR1+MS
21700.000	90.000	179.725	9296.997	102.956	0.000	111.634	-0.000	102.956	0.000	0.000	111.665	42.989	-1.746	MWD+IFR1+MS
21800.000	90.000	179.725	9296.997	103.716	0.000	112.472	-0.000	103.716	0.000	0.000	112.503	43.048	-1.730	MWD+IFR1+MS
21900.000	90.000	179.725	9296.997	104.477	0.000	113.311	-0.000	104.477	0.000	0.000	113.342	43.107	-1.714	MWD+IFR1+MS
22000.000	90.000	179.725	9296.997	105.238	0.000	114.151	-0.000	105.238	0.000	0.000	114.181	43.167	-1.698	MWD+IFR1+MS
22100.000	90.000	179.725	9296.997	106.000	0.000	114.991	-0.000	106.000	0.000	0.000	115.021	43.227	-1.683	MWD+IFR1+MS
22200.000	90.000	179.725	9296.997	106.761	0.000	115.831	-0.000	106.761	0.000	0.000	115.861	43.287	-1.668	MWD+IFR1+MS
22300.000	90.000	179.725	9296.997	107.524	0.000	116.673	-0.000	107.524	0.000	0.000	116.702	43.348	-1.654	MWD+IFR1+MS

22400.000	90.000	179.725	9296.997	108.286	0.000	117.515	-0.000	108.286	0.000	0.000	117.543	43.410	-1.640	MWD+IFR1+MS
22500.000	90.000	179.725	9296.997	109.049	0.000	118.357	-0.000	109.049	0.000	0.000	118.386	43.471	-1.626	MWD+IFR1+MS
22600.000	90.000	179.725	9296.997	109.812	0.000	119.200	-0.000	109.812	0.000	0.000	119.228	43.533	-1.612	MWD+IFR1+MS
22700.000	90.000	179.725	9296.997	110.575	0.000	120.044	-0.000	110.575	0.000	0.000	120.072	43.596	-1.599	MWD+IFR1+MS
22800.000	90.000	179.725	9296.997	111.339	0.000	120.888	-0.000	111.339	0.000	0.000	120.915	43.659	-1.586	MWD+IFR1+MS
22900.000	90.000	179.725	9296.997	112.103	0.000	121.732	-0.000	112.103	0.000	0.000	121.760	43.722	-1.573	MWD+IFR1+MS
23000.000	90.000	179.725	9296.997	112.867	0.000	122.577	-0.000	112.867	0.000	0.000	122.604	43.786	-1.560	MWD+IFR1+MS
23100.000	90.000	179.725	9296.997	113.632	0.000	123.423	-0.000	113.632	0.000	0.000	123.450	43.850	-1.548	MWD+IFR1+MS
23200.000	90.000	179.725	9296.997	114.397	0.000	124.269	-0.000	114.397	0.000	0.000	124.296	43.914	-1.536	MWD+IFR1+MS
23300.000	90.000	179.725	9296.997	115.162	0.000	125.116	-0.000	115.162	0.000	0.000	125.142	43.979	-1.524	MWD+IFR1+MS
23400.000	90.000	179.725	9296.997	115.927	0.000	125.963	-0.000	115.927	0.000	0.000	125.989	44.044	-1.512	MWD+IFR1+MS
23500.000	90.000	179.725	9296.997	116.693	0.000	126.810	-0.000	116.693	0.000	0.000	126.836	44.110	-1.500	MWD+IFR1+MS
23600.000	90.000	179.725	9296.997	117.459	0.000	127.658	-0.000	117.459	0.000	0.000	127.683	44.175	-1.489	MWD+IFR1+MS
23700.000	90.000	179.725	9296.997	118.225	0.000	128.507	-0.000	118.225	0.000	0.000	128.532	44.242	-1.478	MWD+IFR1+MS
23800.000	90.000	179.725	9296.997	118.991	0.000	129.355	-0.000	118.991	0.000	0.000	129.380	44.308	-1.467	MWD+IFR1+MS
23900.000	90.000	179.725	9296.997	119.758	0.000	130.205	-0.000	119.758	0.000	0.000	130.229	44.375	-1.456	MWD+IFR1+MS
24000.000	90.000	179.725	9296.997	120.525	0.000	131.054	-0.000	120.525	0.000	0.000	131.079	44.443	-1.446	MWD+IFR1+MS
24100.000	90.000	179.725	9296.997	121.292	0.000	131.904	-0.000	121.292	0.000	0.000	131.928	44.511	-1.436	MWD+IFR1+MS
24200.000	90.000	179.725	9296.997	122.059	0.000	132.755	-0.000	122.059	0.000	0.000	132.779	44.579	-1.425	MWD+IFR1+MS
24300.000	90.000	179.725	9296.997	122.827	0.000	133.606	-0.000	122.827	0.000	0.000	133.629	44.647	-1.415	MWD+IFR1+MS
24400.000	90.000	179.725	9296.997	123.594	0.000	134.457	-0.000	123.594	0.000	0.000	134.480	44.716	-1.406	MWD+IFR1+MS
24500.000	90.000	179.725	9296.997	124.362	0.000	135.308	-0.000	124.362	0.000	0.000	135.332	44.785	-1.396	MWD+IFR1+MS
24600.000	90.000	179.725	9296.997	125.130	0.000	136.160	-0.000	125.130	0.000	0.000	136.183	44.855	-1.386	MWD+IFR1+MS
24700.000	90.000	179.725	9296.997	125.899	0.000	137.013	-0.000	125.899	0.000	0.000	137.035	44.925	-1.377	MWD+IFR1+MS
24800.000	90.000	179.725	9296.997	126.667	0.000	137.866	-0.000	126.667	0.000	0.000	137.888	44.995	-1.368	MWD+IFR1+MS
24833.658	90.000	179.725	9296.997	126.926	0.000	138.152	-0.000	126.926	0.000	0.000	138.174	45.019	-1.365	MWD+IFR1+MS

Plan Targets Poker Lake Unit 19 DTD South 322H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 22	9598.96	440326.60	628437.40	6085.00	RECTANGLE
LTP 22	24783.54	424658.40	628512.70	6085.00	RECTANGLE
BHL 22	24833.54	424608.40	628512.90	6085.00	RECTANGLE

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

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

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

☑ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-53835	96526	Forty Niner; Bone Spring West

[4] Property Code	[5] Property Name	[6] Well Number
333976	POKER LAKE UNIT 19 DTD	322H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC	3,180'

[10] Surface Location

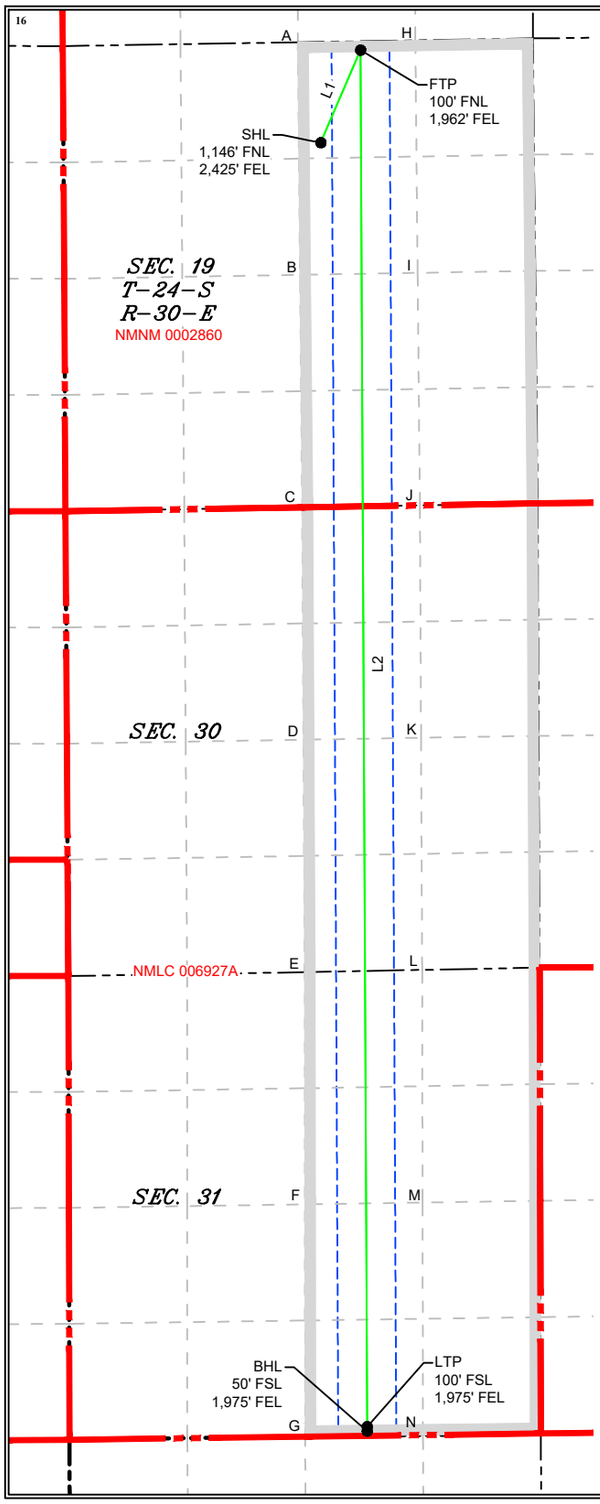
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	19	24S	30E		1,146	NORTH	2,425	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	31	24S	30E		50	SOUTH	1,975	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
960.00			

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.



LEGEND

- SECTION LINE
- PROPOSED WELL BORE
- NEW MEXICO MINERAL LEASE
- 330' BUFFER
- ALLOCATION AREA

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	023°15'01"	1,146.73'
L2	179°43'23"	15,718.85'

COORDINATE TABLE

SHL (NAD 83 NME)	SHL (NAD 27 NME)
Y = 439,332.3 N	Y = 439,273.0 N
X = 669,168.4 E	X = 627,984.7 E
LAT. = 32.207126 °N	LAT. = 32.207002 °N
LONG. = 103.920030 °W	LONG. = 103.919542 °W

FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y = 440,385.9 N	Y = 440,326.6 N
X = 669,621.0 E	X = 628,437.4 E
LAT. = 32.210017 °N	LAT. = 32.209893 °N
LONG. = 103.918553 °W	LONG. = 103.918065 °W

LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y = 424,717.3 N	Y = 424,658.4 N
X = 669,696.9 E	X = 628,512.7 E
LAT. = 32.166946 °N	LAT. = 32.166821 °N
LONG. = 103.918503 °W	LONG. = 103.918017 °W

BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y = 424,667.3 N	Y = 424,608.4 N
X = 669,697.0 E	X = 628,512.9 E
LAT. = 32.166808 °N	LAT. = 32.166684 °N
LONG. = 103.918503 °W	LONG. = 103.918017 °W

CORNER COORDINATES (NAD 83 NME)

A - Y = 440,474.2 N	A - X = 668,907.4 E		
B - Y = 437,827.7 N	B - X = 668,932.1 E		
C - Y = 435,182.2 N	C - X = 668,956.9 E		
D - Y = 432,537.8 N	D - X = 668,971.2 E		
E - Y = 429,892.6 N	E - X = 668,985.5 E		
F - Y = 427,251.3 N	F - X = 668,987.7 E		
G - Y = 424,607.8 N	G - X = 668,989.9 E		
H - Y = 440,496.2 N	H - X = 670,244.6 E		
I - Y = 437,850.2 N	I - X = 670,270.4 E		
J - Y = 435,204.8 N	J - X = 670,296.6 E		
K - Y = 432,560.0 N	K - X = 670,309.1 E		
L - Y = 429,918.6 N	L - X = 670,321.8 E		
M - Y = 427,271.5 N	M - X = 670,326.5 E		
N - Y = 424,625.7 N	N - X = 670,331.2 E		

CORNER COORDINATES (NAD 27 NME)

A - Y = 440,414.9 N	A - X = 627,723.8 E		
B - Y = 437,768.5 N	B - X = 627,748.4 E		
C - Y = 435,123.0 N	C - X = 627,773.1 E		
D - Y = 432,478.7 N	D - X = 627,787.3 E		
E - Y = 429,833.6 N	E - X = 627,801.5 E		
F - Y = 427,192.4 N	F - X = 627,803.6 E		
G - Y = 424,548.9 N	G - X = 627,805.8 E		
H - Y = 440,436.9 N	H - X = 629,060.9 E		
I - Y = 437,791.0 N	I - X = 629,086.7 E		
J - Y = 435,145.6 N	J - X = 629,112.8 E		
K - Y = 432,500.9 N	K - X = 629,125.2 E		
L - Y = 429,859.6 N	L - X = 629,137.8 E		
M - Y = 427,212.6 N	M - X = 629,142.4 E		
N - Y = 424,566.8 N	N - X = 629,147.0 E		

[17] OPERATOR CERTIFICATION

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

Terra Sebastian 2/28/2024
Signature Date

Terra Sebastian
Printed Name

terra.b.sebastian@exxonmobil.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

02/09/2024
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number

RP 618.013003.05-54

G:\618.013 XTO Energy - NM\003 Poker Lake Unit\05 - PLU 19 DTD - EDDY\Wells\54 - 322H\DWG\SOUTH 322H C-102.dwg

Intent ☐ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number

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	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County

Latitude	Longitude	NAD

Last Take Point (LTP)

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

Latitude	Longitude	NAD

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

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by- well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance…". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack

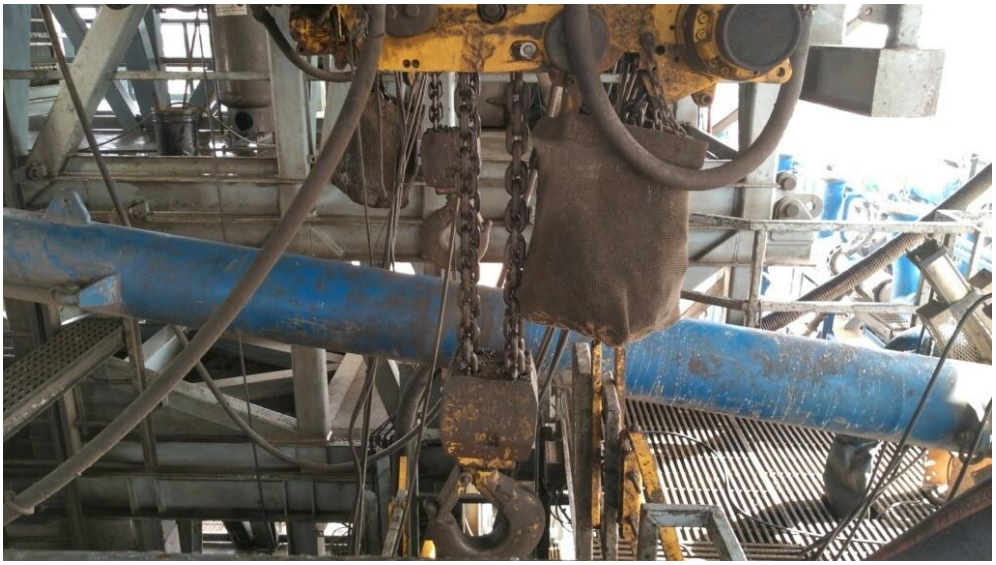


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

62 API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure[ac] psig (MPa)	Pressure Test—High Pressure[ac]	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer[b]	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers[bd]	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes[e]	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes[e]	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

[a] Pressure test evaluation periods shall be a minimum of five minutes.
No visible leaks.
The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

[b] Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

[c] For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

[d] For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

[e] Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

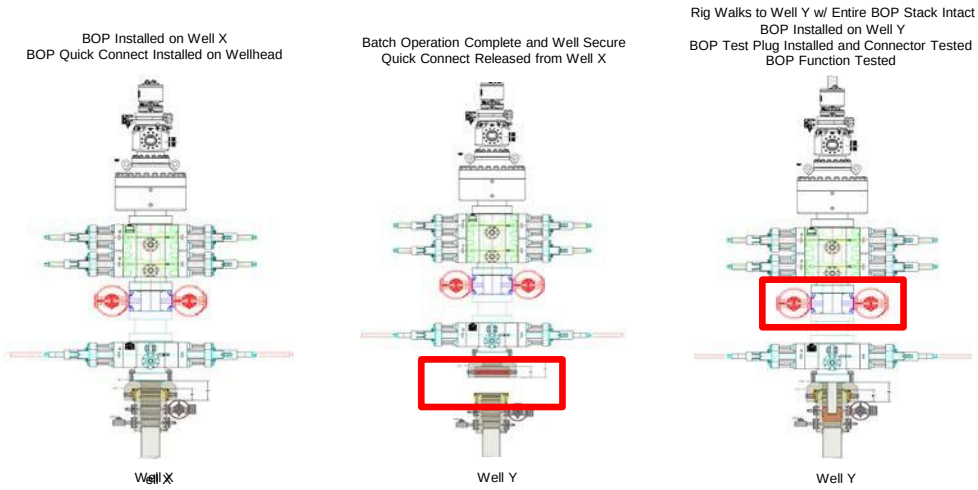
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
    a. A full BOP test will be conducted on the first well on the pad.
    b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
        i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
        ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
    c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
    d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
    a. Between the HCV valve and choke line connection
    b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

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.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, 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. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

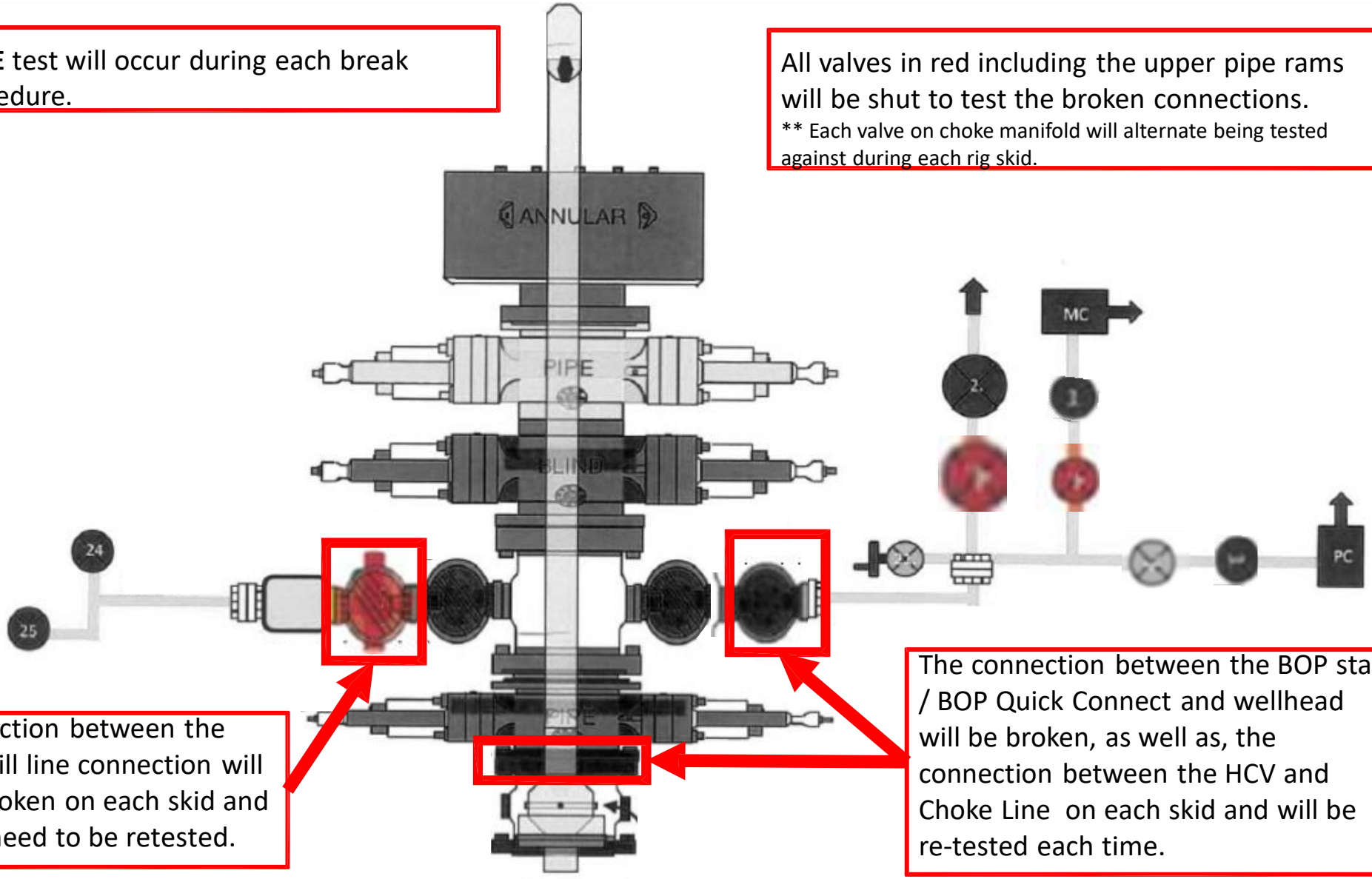
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.

** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

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

XTO Energy Inc.
PLU 19 Dog Town Draw 322H
Projected TD: 24833.66' MD / 9297' TVD
SHL: 1146' FNL & 2425' FEL , Section 19, T24S, R30E
BHL: 50' FSL & 1975' FEL , Section 31, T24S, 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	649'	Water
Top of Salt	1052'	Water
Base of Salt	3245'	Water
Delaware	3439'	Water
Brushy Canyon	5937'	Water/Oil/Gas
Bone Spring	7233'	Water
1st Bone Spring	8219'	Water/Oil/Gas
2nd Bone Spring	9037'	Water/Oil/Gas
Target/Land Curve	9297'	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 @ 749' (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 8506.36' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 24833.66 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8206.36 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 749'	13.375	54.5	J-55	BTC	New	1.56	3.45	22.27
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	3.36	2.48	3.72
12.25	4000' – 8506.36'	9.625	40	HC L-80	BTC	New	2.44	2.36	5.08
8.5	0' – 8406.36'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.79	2.13
8.5	8406.36' - 24833.66'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.52	2.13

· 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.
· 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: 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 +/- 749'

Lead: 330 sxs EconoCem-HLTRRC (mixed at 10.5 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 300 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: 9.625, 40 New casing to be set at +/- 8506.36'
1st Stage
Optional Lead: 1000 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 740 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 5937
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: 2090 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 (5937') 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-Premium, RY P-110 casing to be set at +/- 24833.66'

Lead: 50 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8206.36 feet
Tail: 3180 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 8706.36 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 2354 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling 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 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' - 749'	17.5	FW/Native	8.4-8.9	35-40	NC
749' - 8506.36'	12.25	FW / Cut Brine / Direct Emulsion	8.2-8.7	30-32	NC
8506.36' - 24833.66'	8.5	OBM	9.1-9.6	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

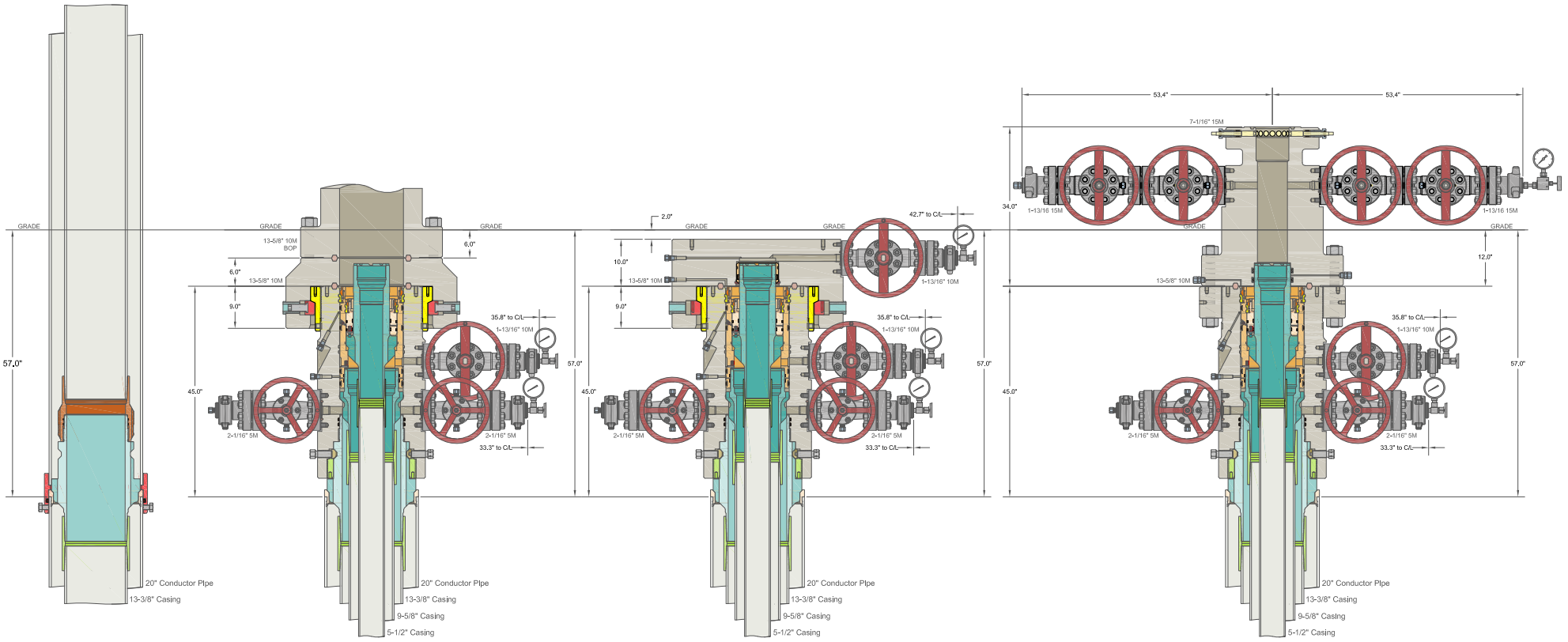
Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 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 4399 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.



ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

(20") x 13-3/8" x 9-5/8" x 5-1/2" 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	VJK	31MAR22
APPRV		
DRAWING NO.	SDT-2856	

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per 43.CFR.3172 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

<u>General Procedure While Drilling</u>

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
   a. SIDPP & SICP
   b. Pit gain
   c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

a. Sound alarm (alert crew)
b. Stab crossover and full-opening safety valve and close
c. Space out string
d. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
e. Confirm shut-in
f. Notify toolpusher/company representative
g. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
h. Regroup and identify forward plan
i. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
   a. SICP
   b. Pit gain
   c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
   a. Perform flow check. If flowing, continue to (b).
   b. Sound alarm (alert crew)
   c. Stab full-opening safety valve and close
   d. Space out drill string with tool joint just beneath the upper variable bore rams
   e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   f. Confirm shut-in
   g. Notify toolpusher/company representative
   h. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time
   i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
   a. Sound alarm (alert crew)
   b. Stab crossover and full-opening safety valve and close
   c. Space out drill string with upset just beneath the upper variable bore rams
   d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
   e. Confirm shut-in
   f. Notify toolpusher/company representative
   g. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
    a. Sound alarm (alert crew)
    b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
    c. If impossible to pull string clear of the stack:
    d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
    e. Space out drill string with tooljoint just beneath the upper variable bore ram
    f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
    g. Confirm shut-in
    h. Notify toolpusher/company representative
    i. Read and record the following:
        i. SIDPP & SICP
        ii. Pit gain
        iii. Time
    j. Regroup and identify forward plan

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

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 330335
	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.	4/11/2024