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

Sundry Print Report

04/25/2024

Well Name: POKER LAKE UNIT 19 DTD

Well Location: T24S / R30E / SEC 19 / NENE / 32.209567 / -103.915879

County or Parish/State: EDDY / NM

Well Number: 422H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM002860

Unit or CA Name:

Unit or CA Number: NMNM71016X

US Well Number: 3001553840

Operator: XTO PERMIAN OPERATING LLC

Notice of Intent

Sundry ID: 2778063

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/05/2024

Time Sundry Submitted: 06:27

Date proposed operation will begin: 04/02/2024

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, and proposed total depth, and formation (pool). FROM: TO: SHL: 274' FNL & 1136' FEL of Section 19-T24S-R30E 274' FNL & 1136' FEL of Section 19-T24S-R30E FTP: 100' FSL & 990' FEL of Section 18-T24S-R30E 100' FNL & 432' FEL of Section 19-T24S-R30E LTP: 2310' FSL & 990' FEL of Section 31-T23S-R30E 100' FSL & 445' FEL of Section 31-T24S-R30E BHL: 2440' FSL & 990' FEL of Section 31-T23S-R30E 50' FSL & 445' FEL of Section 31-T24S-R30E Proposed total depth will change from 29368' MD; 10819' TVD (Purple Sage) to 24800' MD; TVD 9336' (Bone Spring). 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_422H_20240305182659.pdf

3_String_Bighole_SDT_2856_1_MBS_20240305182654.pdf

POKER_LAKE_UNIT_19_DTD_422H_C_102_FINAL_20240305182653.pdf

BOP_Variance_new_Language_BOP_BTV_20240305182653.pdf

PLU_19_DTD_422H_Pad_D_Drilling_Plan_20240305182652.pdf

Well_Control_Plan_w_CFR_43_3172_20240305182651.pdf

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Conditions of Approval

Additional

Sec19_24S_30E_NMP_Sundry_2778063_Poker_Lake_Unit_19_DTD_422H_COAs_20240321151812.pdf

Operator

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

Operator Electronic Signature: JEAN COOPER

Signed on: MAR 05, 2024 06:27 PM

Name: XTO PERMIAN OPERATING LLC

Title: Regulatory Analyst

Street Address: 6401 HOLIDAY HILL ROAD BLDG 5

City: MIDLAND **State:** TX

Phone: (432) 620-6700

Email address: JEAN.COOPER@EXXONMOBIL.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 04/24/2024

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*

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

2. Name of Operator

3a. Address

3b. Phone No. *(include area code)*

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

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: NENE / 274 FNL / 1136 FEL / TWSP: 24S / RANGE: 30E / SECTION: 19 / LAT: 32.209567 / LONG: -103.915879 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 330 FSL / 990 FEL / TWSP: 24S / RANGE: 30E / SECTION: 7 / LAT: 32.2191 / LONG: -103.92425 (TVD: 10819 feet, MD: 16500 feet)

PPP: SESE / 100 FSL / 990 FEL / TWSP: 24S / RANGE: 30E / SECTION: 18 / LAT: 32.210601 / LONG: -103.915412 (TVD: 10819 feet, MD: 11150 feet)

BHL: NESE / 2440 FSL / 990 FEL / TWSP: 23S / RANGE: 30E / SECTION: 31 / LAT: 32.26068 / LONG: -103.915389 (TVD: 10819 feet, MD: 29368 feet)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 19 DTD 422H
LOCATION:	Sec 19-24S-30E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2778063** on 03/21/2024. 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 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.
Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

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

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

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

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

C. PRESSURE CONTROL

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

2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 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 422H

Measured Depth:	24800.98 ft
TVD RKB:	9336.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	440166.00 ft
Easting:	629265.00 ft
RKB:	3211.00 ft
Ground Level:	3179.00 ft
North Reference:	Grid
Convergence Angle:	0.22 Deg

Plan Sections Poker Lake Unit 19 DTD South 422H

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	
1497.51	7.95	75.18	1496.24	7.04	26.62	2.00	0.00	2.00	
6351.69	7.95	75.18	6303.76	178.76	675.68	0.00	0.00	0.00	
6749.20	0.00	0.00	6700.00	185.80	702.30	-2.00	0.00	2.00	
8669.00	0.00	0.00	8619.80	185.80	702.30	0.00	0.00	0.00	
9794.00	90.00	179.72	9336.00	-530.39	705.75	8.00	0.00	8.00	
24750.86	90.00	179.72	9336.00	-15487.07	777.80	0.00	0.00	0.00	LTP 32
24800.98	90.00	179.72	9336.00	-15537.19	778.04	0.00	0.00	0.00	BHL 32

Position Uncertainty Poker Lake Unit 19 DTD South 422H

Measured	TVD	Highside	Lateral	Vertical	Magnitude	Semi-major	Semi-minor	Semi-minor	Tool

Depth (ft)	Inclination (°)	Azimuth (°)	RKB (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	Error (ft)	Bias (ft)	of Bias (ft)	Error (ft)	Error (ft)	Azimuth (°)	Used
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	75.181	1199.980	4.997	0.000	4.521	0.000	2.686	0.000	0.000	5.194	4.295	-43.704	MWD+IFR1+MS
1300.000	4.000	75.181	1299.838	5.771	0.000	4.889	0.000	2.746	0.000	0.000	5.823	4.837	-27.465	MWD+IFR1+MS
1400.000	6.000	75.181	1399.452	6.466	0.000	5.256	0.000	2.811	0.000	0.000	6.490	5.250	-18.343	MWD+IFR1+MS
1497.510	7.950	75.181	1496.235	7.070	0.000	5.612	0.000	2.881	0.000	0.000	7.104	5.611	-13.758	MWD+IFR1+MS
1500.000	7.950	75.181	1498.702	7.077	0.000	5.620	0.000	2.879	0.000	0.000	7.112	5.620	-13.763	MWD+IFR1+MS
1600.000	7.950	75.181	1597.741	7.343	0.000	5.965	0.000	2.947	0.000	0.000	7.376	5.964	-13.627	MWD+IFR1+MS
1700.000	7.950	75.181	1696.779	7.636	0.000	6.334	0.000	3.020	0.000	0.000	7.667	6.332	-12.689	MWD+IFR1+MS
1800.000	7.950	75.181	1795.818	7.935	0.000	6.702	0.000	3.096	0.000	0.000	7.965	6.698	-11.748	MWD+IFR1+MS
1900.000	7.950	75.181	1894.857	8.241	0.000	7.071	0.000	3.174	0.000	0.000	8.270	7.065	-10.805	MWD+IFR1+MS
2000.000	7.950	75.181	1993.896	8.551	0.000	7.440	0.000	3.254	0.000	0.000	8.580	7.430	-9.863	MWD+IFR1+MS
2100.000	7.950	75.181	2092.935	8.866	0.000	7.808	0.000	3.337	0.000	0.000	8.895	7.796	-8.923	MWD+IFR1+MS
2200.000	7.950	75.181	2191.974	9.186	0.000	8.177	0.000	3.421	0.000	0.000	9.214	8.161	-7.987	MWD+IFR1+MS
2300.000	7.950	75.181	2291.013	9.509	0.000	8.546	0.000	3.508	0.000	0.000	9.538	8.526	-7.056	MWD+IFR1+MS
2400.000	7.950	75.181	2390.052	9.836	0.000	8.914	0.000	3.597	0.000	0.000	9.865	8.891	-6.133	MWD+IFR1+MS
2500.000	7.950	75.181	2489.090	10.166	0.000	9.283	0.000	3.687	0.000	0.000	10.195	9.256	-5.219	MWD+IFR1+MS
2600.000	7.950	75.181	2588.129	10.498	0.000	9.652	0.000	3.780	0.000	0.000	10.528	9.620	-4.316	MWD+IFR1+MS
2700.000	7.950	75.181	2687.168	10.833	0.000	10.020	0.000	3.873	0.000	0.000	10.864	9.984	-3.425	MWD+IFR1+MS
2800.000	7.950	75.181	2786.207	11.171	0.000	10.389	0.000	3.969	0.000	0.000	11.202	10.349	-2.547	MWD+IFR1+MS
2900.000	7.950	75.181	2885.246	11.510	0.000	10.758	0.000	4.066	0.000	0.000	11.543	10.713	-1.684	MWD+IFR1+MS

3000.000	7.950	75.181	2984.285	11.852	0.000	11.126	0.000	4.165	0.000	0.000	11.885	11.077	-0.836	MWD+IFR1+MS
3100.000	7.950	75.181	3083.324	12.195	0.000	11.495	0.000	4.265	0.000	0.000	12.229	11.442	-0.005	MWD+IFR1+MS
3200.000	7.950	75.181	3182.362	12.540	0.000	11.863	0.000	4.367	0.000	0.000	12.575	11.806	0.809	MWD+IFR1+MS
3300.000	7.950	75.181	3281.401	12.886	0.000	12.232	0.000	4.471	0.000	0.000	12.922	12.170	1.606	MWD+IFR1+MS
3400.000	7.950	75.181	3380.440	13.234	0.000	12.601	0.000	4.575	0.000	0.000	13.271	12.535	2.384	MWD+IFR1+MS
3500.000	7.950	75.181	3479.479	13.583	0.000	12.969	0.000	4.682	0.000	0.000	13.621	12.899	3.144	MWD+IFR1+MS
3600.000	7.950	75.181	3578.518	13.933	0.000	13.338	0.000	4.790	0.000	0.000	13.972	13.263	3.885	MWD+IFR1+MS
3700.000	7.950	75.181	3677.557	14.284	0.000	13.707	0.000	4.899	0.000	0.000	14.324	13.628	4.607	MWD+IFR1+MS
3800.000	7.950	75.181	3776.596	14.637	0.000	14.075	0.000	5.010	0.000	0.000	14.677	13.992	5.310	MWD+IFR1+MS
3900.000	7.950	75.181	3875.635	14.990	0.000	14.444	0.000	5.123	0.000	0.000	15.031	14.357	5.994	MWD+IFR1+MS
4000.000	7.950	75.181	3974.673	15.344	0.000	14.812	0.000	5.237	0.000	0.000	15.386	14.722	6.659	MWD+IFR1+MS
4100.000	7.950	75.181	4073.712	15.699	0.000	15.181	0.000	5.352	0.000	0.000	15.741	15.087	7.306	MWD+IFR1+MS
4200.000	7.950	75.181	4172.751	16.054	0.000	15.550	0.000	5.469	0.000	0.000	16.097	15.451	7.934	MWD+IFR1+MS
4300.000	7.950	75.181	4271.790	16.411	0.000	15.918	0.000	5.588	0.000	0.000	16.454	15.816	8.544	MWD+IFR1+MS
4400.000	7.950	75.181	4370.829	16.768	0.000	16.287	0.000	5.709	0.000	0.000	16.811	16.182	9.137	MWD+IFR1+MS
4500.000	7.950	75.181	4469.868	17.126	0.000	16.656	0.000	5.831	0.000	0.000	17.169	16.547	9.712	MWD+IFR1+MS
4600.000	7.950	75.181	4568.907	17.484	0.000	17.024	0.000	5.954	0.000	0.000	17.527	16.912	10.270	MWD+IFR1+MS
4700.000	7.950	75.181	4667.945	17.843	0.000	17.393	0.000	6.080	0.000	0.000	17.886	17.277	10.811	MWD+IFR1+MS
4800.000	7.950	75.181	4766.984	18.202	0.000	17.762	0.000	6.207	0.000	0.000	18.245	17.643	11.336	MWD+IFR1+MS
4900.000	7.950	75.181	4866.023	18.562	0.000	18.130	0.000	6.336	0.000	0.000	18.605	18.008	11.846	MWD+IFR1+MS
5000.000	7.950	75.181	4965.062	18.922	0.000	18.499	0.000	6.467	0.000	0.000	18.965	18.374	12.340	MWD+IFR1+MS
5100.000	7.950	75.181	5064.101	19.283	0.000	18.867	0.000	6.599	0.000	0.000	19.325	18.740	12.820	MWD+IFR1+MS
5200.000	7.950	75.181	5163.140	19.644	0.000	19.236	0.000	6.734	0.000	0.000	19.686	19.106	13.285	MWD+IFR1+MS
5300.000	7.950	75.181	5262.179	20.005	0.000	19.605	0.000	6.870	0.000	0.000	20.047	19.472	13.736	MWD+IFR1+MS
5400.000	7.950	75.181	5361.218	20.367	0.000	19.973	0.000	7.008	0.000	0.000	20.408	19.838	14.173	MWD+IFR1+MS
5500.000	7.950	75.181	5460.256	20.729	0.000	20.342	0.000	7.149	0.000	0.000	20.770	20.204	14.598	MWD+IFR1+MS
5600.000	7.950	75.181	5559.295	21.092	0.000	20.711	0.000	7.291	0.000	0.000	21.132	20.570	15.009	MWD+IFR1+MS
5700.000	7.950	75.181	5658.334	21.455	0.000	21.079	0.000	7.435	0.000	0.000	21.494	20.937	15.409	MWD+IFR1+MS
5800.000	7.950	75.181	5757.373	21.818	0.000	21.448	0.000	7.581	0.000	0.000	21.856	21.303	15.797	MWD+IFR1+MS
5900.000	7.950	75.181	5856.412	22.181	0.000	21.816	0.000	7.729	0.000	0.000	22.219	21.669	16.173	MWD+IFR1+MS
6000.000	7.950	75.181	5955.451	22.545	0.000	22.185	0.000	7.880	0.000	0.000	22.581	22.036	16.538	MWD+IFR1+MS
6100.000	7.950	75.181	6054.490	22.909	0.000	22.554	0.000	8.032	0.000	0.000	22.944	22.403	16.893	MWD+IFR1+MS
6200.000	7.950	75.181	6153.528	23.273	0.000	22.922	0.000	8.187	0.000	0.000	23.307	22.770	17.237	MWD+IFR1+MS

6300.000	7.950	75.181	6252.567	23.638	0.000	23.291	0.000	8.344	0.000	0.000	23.670	23.136	17.571	MWD+IFR1+MS
6351.694	7.950	75.181	6303.765	23.823	0.000	23.479	0.000	8.425	0.000	0.000	23.853	23.326	17.610	MWD+IFR1+MS
6400.000	6.984	75.181	6351.660	24.005	0.000	23.653	0.000	8.503	0.000	0.000	24.024	23.502	17.550	MWD+IFR1+MS
6500.000	4.984	75.181	6451.110	24.414	0.000	24.014	0.000	8.663	0.000	0.000	24.429	23.869	15.583	MWD+IFR1+MS
6600.000	2.984	75.181	6550.864	24.838	0.000	24.373	0.000	8.823	0.000	0.000	24.879	24.233	12.806	MWD+IFR1+MS
6700.000	0.984	75.181	6650.799	25.227	0.000	24.728	0.000	8.979	0.000	0.000	25.325	24.589	10.775	MWD+IFR1+MS
6749.204	0.000	0.000	6700.000	24.785	0.000	25.469	0.000	9.056	0.000	0.000	25.493	24.761	10.427	MWD+IFR1+MS
6800.000	0.000	0.000	6750.796	24.960	0.000	25.633	0.000	9.134	0.000	0.000	25.657	24.936	10.449	MWD+IFR1+MS
6900.000	0.000	0.000	6850.796	25.304	0.000	25.961	0.000	9.291	0.000	0.000	25.983	25.281	10.290	MWD+IFR1+MS
7000.000	0.000	0.000	6950.796	25.651	0.000	26.292	0.000	9.450	0.000	0.000	26.311	25.631	9.889	MWD+IFR1+MS
7100.000	0.000	0.000	7050.796	25.999	0.000	26.623	0.000	9.613	0.000	0.000	26.641	25.981	9.474	MWD+IFR1+MS
7200.000	0.000	0.000	7150.796	26.346	0.000	26.956	0.000	9.777	0.000	0.000	26.971	26.330	9.045	MWD+IFR1+MS
7300.000	0.000	0.000	7250.796	26.694	0.000	27.289	0.000	9.945	0.000	0.000	27.302	26.680	8.601	MWD+IFR1+MS
7400.000	0.000	0.000	7350.796	27.043	0.000	27.622	0.000	10.115	0.000	0.000	27.634	27.031	8.142	MWD+IFR1+MS
7500.000	0.000	0.000	7450.796	27.391	0.000	27.957	0.000	10.288	0.000	0.000	27.967	27.381	7.666	MWD+IFR1+MS
7600.000	0.000	0.000	7550.796	27.740	0.000	28.292	0.000	10.464	0.000	0.000	28.300	27.731	7.174	MWD+IFR1+MS
7700.000	0.000	0.000	7650.796	28.089	0.000	28.627	0.000	10.643	0.000	0.000	28.634	28.082	6.665	MWD+IFR1+MS
7800.000	0.000	0.000	7750.796	28.438	0.000	28.963	0.000	10.825	0.000	0.000	28.969	28.432	6.138	MWD+IFR1+MS
7900.000	0.000	0.000	7850.796	28.788	0.000	29.300	0.000	11.009	0.000	0.000	29.304	28.783	5.592	MWD+IFR1+MS
8000.000	0.000	0.000	7950.796	29.138	0.000	29.637	0.000	11.196	0.000	0.000	29.640	29.134	5.028	MWD+IFR1+MS
8100.000	0.000	0.000	8050.796	29.488	0.000	29.974	0.000	11.386	0.000	0.000	29.977	29.485	4.444	MWD+IFR1+MS
8200.000	0.000	0.000	8150.796	29.838	0.000	30.312	0.000	11.579	0.000	0.000	30.314	29.836	3.840	MWD+IFR1+MS
8300.000	0.000	0.000	8250.796	30.188	0.000	30.651	0.000	11.775	0.000	0.000	30.652	30.187	3.215	MWD+IFR1+MS
8400.000	0.000	0.000	8350.796	30.539	0.000	30.990	0.000	11.974	0.000	0.000	30.990	30.538	2.570	MWD+IFR1+MS
8500.000	0.000	0.000	8450.796	30.889	0.000	31.329	0.000	12.176	0.000	0.000	31.329	30.889	1.903	MWD+IFR1+MS
8600.000	0.000	0.000	8550.796	31.240	0.000	31.669	0.000	12.381	0.000	0.000	31.669	31.240	1.214	MWD+IFR1+MS
8669.004	0.000	0.000	8619.800	31.480	0.000	31.901	0.000	12.524	0.000	0.000	31.902	31.480	0.998	MWD+IFR1+MS
8700.000	2.480	179.724	8650.786	31.536	0.000	32.002	-0.000	12.588	0.000	0.000	32.002	31.586	1.071	MWD+IFR1+MS
8800.000	10.480	179.724	8750.067	31.939	0.000	32.315	-0.000	12.824	0.000	0.000	32.469	32.311	98.909	MWD+IFR1+MS
8900.000	18.480	179.724	8846.812	32.584	0.000	32.620	-0.000	13.225	0.000	0.000	33.982	32.612	94.010	MWD+IFR1+MS
9000.000	26.480	179.724	8939.138	32.715	0.000	32.911	-0.000	13.869	0.000	0.000	35.310	32.898	93.820	MWD+IFR1+MS
9100.000	34.480	179.724	9025.249	32.387	0.000	33.184	-0.000	14.805	0.000	0.000	36.431	33.166	93.867	MWD+IFR1+MS
9200.000	42.480	179.724	9103.469	31.673	0.000	33.437	-0.000	16.036	0.000	0.000	37.339	33.413	94.028	MWD+IFR1+MS

9300.000	50.480	179.724	9172.274	30.671	0.000	33.669	-0.000	17.525	0.000	0.000	38.036	33.639	94.286	MWD+IFR1+MS
9400.000	58.480	179.724	9230.326	29.506	0.000	33.878	-0.000	19.214	0.000	0.000	38.536	33.841	94.642	MWD+IFR1+MS
9500.000	66.480	179.724	9276.495	28.332	0.000	34.065	-0.000	21.036	0.000	0.000	38.860	34.019	95.100	MWD+IFR1+MS
9600.000	74.480	179.724	9309.882	27.325	0.000	34.226	-0.000	22.921	0.000	0.000	39.043	34.171	95.659	MWD+IFR1+MS
9700.000	82.480	179.724	9329.837	26.672	0.000	34.363	-0.000	24.806	0.000	0.000	39.123	34.295	96.298	MWD+IFR1+MS
9794.004	90.000	179.724	9335.997	26.349	0.000	34.465	-0.000	26.349	0.000	0.000	39.149	34.385	96.922	MWD+IFR1+MS
9800.000	90.000	179.724	9335.997	26.359	0.000	34.471	-0.000	26.359	0.000	0.000	39.150	34.390	96.960	MWD+IFR1+MS
9900.000	90.000	179.724	9335.997	26.528	0.000	34.573	-0.000	26.528	0.000	0.000	39.167	34.478	97.641	MWD+IFR1+MS
10000.000	90.000	179.724	9335.997	26.724	0.000	34.696	-0.000	26.724	0.000	0.000	39.187	34.585	98.375	MWD+IFR1+MS
10100.000	90.000	179.724	9335.997	26.941	0.000	34.835	-0.000	26.941	0.000	0.000	39.209	34.707	99.166	MWD+IFR1+MS
10200.000	90.000	179.724	9335.997	27.179	0.000	34.991	-0.000	27.179	0.000	0.000	39.233	34.842	100.024	MWD+IFR1+MS
10300.000	90.000	179.724	9335.997	27.438	0.000	35.163	-0.000	27.438	0.000	0.000	39.260	34.991	100.960	MWD+IFR1+MS
10400.000	90.000	179.724	9335.997	27.716	0.000	35.350	-0.000	27.716	0.000	0.000	39.291	35.153	101.988	MWD+IFR1+MS
10500.000	90.000	179.724	9335.997	28.013	0.000	35.553	-0.000	28.013	0.000	0.000	39.326	35.326	103.125	MWD+IFR1+MS
10600.000	90.000	179.724	9335.997	28.329	0.000	35.771	-0.000	28.329	0.000	0.000	39.366	35.511	104.389	MWD+IFR1+MS
10700.000	90.000	179.724	9335.997	28.663	0.000	36.004	-0.000	28.663	0.000	0.000	39.411	35.706	105.803	MWD+IFR1+MS
10800.000	90.000	179.724	9335.997	29.015	0.000	36.251	-0.000	29.015	0.000	0.000	39.462	35.909	107.391	MWD+IFR1+MS
10900.000	90.000	179.724	9335.997	29.383	0.000	36.513	-0.000	29.383	0.000	0.000	39.521	36.120	109.182	MWD+IFR1+MS
11000.000	90.000	179.724	9335.997	29.768	0.000	36.789	-0.000	29.768	0.000	0.000	39.589	36.336	111.207	MWD+IFR1+MS
11100.000	90.000	179.724	9335.997	30.168	0.000	37.079	-0.000	30.168	0.000	0.000	39.668	36.555	113.496	MWD+IFR1+MS
11200.000	90.000	179.724	9335.997	30.582	0.000	37.382	-0.000	30.582	0.000	0.000	39.761	36.775	116.074	MWD+IFR1+MS
11300.000	90.000	179.724	9335.997	31.011	0.000	37.699	-0.000	31.011	0.000	0.000	39.870	36.992	118.958	MWD+IFR1+MS
11400.000	90.000	179.724	9335.997	31.454	0.000	38.028	-0.000	31.454	0.000	0.000	39.998	37.204	122.141	MWD+IFR1+MS
11500.000	90.000	179.724	9335.997	31.910	0.000	38.369	-0.000	31.910	0.000	0.000	40.149	37.406	125.591	MWD+IFR1+MS
11600.000	90.000	179.724	9335.997	32.379	0.000	38.723	-0.000	32.379	0.000	0.000	40.324	37.595	129.236	MWD+IFR1+MS
11700.000	90.000	179.724	9335.997	32.860	0.000	39.089	-0.000	32.860	0.000	0.000	40.527	37.770	132.977	MWD+IFR1+MS
11800.000	90.000	179.724	9335.997	33.352	0.000	39.466	-0.000	33.352	0.000	0.000	40.759	37.928	-43.307	MWD+IFR1+MS
11900.000	90.000	179.724	9335.997	33.855	0.000	39.854	-0.000	33.855	0.000	0.000	41.019	38.069	-39.730	MWD+IFR1+MS
12000.000	90.000	179.724	9335.997	34.369	0.000	40.253	-0.000	34.369	0.000	0.000	41.307	38.193	-36.384	MWD+IFR1+MS
12100.000	90.000	179.724	9335.997	34.893	0.000	40.662	-0.000	34.893	0.000	0.000	41.621	38.303	-33.325	MWD+IFR1+MS
12200.000	90.000	179.724	9335.997	35.426	0.000	41.082	-0.000	35.426	0.000	0.000	41.958	38.399	-30.574	MWD+IFR1+MS
12300.000	90.000	179.724	9335.997	35.969	0.000	41.511	-0.000	35.969	0.000	0.000	42.318	38.484	-28.129	MWD+IFR1+MS
12400.000	90.000	179.724	9335.997	36.521	0.000	41.950	-0.000	36.521	0.000	0.000	42.697	38.560	-25.970	MWD+IFR1+MS

12500.000	90.000	179.724	9335.997	37.081	0.000	42.399	-0.000	37.081	0.000	0.000	43.093	38.628	-24.068	MWD+IFR1+MS
12600.000	90.000	179.724	9335.997	37.649	0.000	42.856	-0.000	37.649	0.000	0.000	43.506	38.690	-22.392	MWD+IFR1+MS
12700.000	90.000	179.724	9335.997	38.224	0.000	43.322	-0.000	38.224	0.000	0.000	43.933	38.747	-20.914	MWD+IFR1+MS
12800.000	90.000	179.724	9335.997	38.807	0.000	43.796	-0.000	38.807	0.000	0.000	44.373	38.799	-19.606	MWD+IFR1+MS
12900.000	90.000	179.724	9335.997	39.397	0.000	44.279	-0.000	39.397	0.000	0.000	44.825	38.848	-18.444	MWD+IFR1+MS
13000.000	90.000	179.724	9335.997	39.994	0.000	44.770	-0.000	39.994	0.000	0.000	45.288	38.894	-17.408	MWD+IFR1+MS
13100.000	90.000	179.724	9335.997	40.597	0.000	45.268	-0.000	40.597	0.000	0.000	45.762	38.938	-16.480	MWD+IFR1+MS
13200.000	90.000	179.724	9335.997	41.206	0.000	45.773	-0.000	41.206	0.000	0.000	46.246	38.979	-15.646	MWD+IFR1+MS
13300.000	90.000	179.724	9335.997	41.821	0.000	46.286	-0.000	41.821	0.000	0.000	46.739	39.020	-14.892	MWD+IFR1+MS
13400.000	90.000	179.724	9335.997	42.442	0.000	46.805	-0.000	42.442	0.000	0.000	47.241	39.059	-14.208	MWD+IFR1+MS
13500.000	90.000	179.724	9335.997	43.068	0.000	47.332	-0.000	43.068	0.000	0.000	47.751	39.097	-13.586	MWD+IFR1+MS
13600.000	90.000	179.724	9335.997	43.699	0.000	47.864	-0.000	43.699	0.000	0.000	48.268	39.134	-13.018	MWD+IFR1+MS
13700.000	90.000	179.724	9335.997	44.335	0.000	48.403	-0.000	44.335	0.000	0.000	48.793	39.171	-12.497	MWD+IFR1+MS
13800.000	90.000	179.724	9335.997	44.976	0.000	48.948	-0.000	44.976	0.000	0.000	49.326	39.207	-12.017	MWD+IFR1+MS
13900.000	90.000	179.724	9335.997	45.621	0.000	49.499	-0.000	45.621	0.000	0.000	49.865	39.243	-11.575	MWD+IFR1+MS
14000.000	90.000	179.724	9335.997	46.271	0.000	50.055	-0.000	46.271	0.000	0.000	50.410	39.279	-11.166	MWD+IFR1+MS
14100.000	90.000	179.724	9335.997	46.925	0.000	50.617	-0.000	46.925	0.000	0.000	50.962	39.314	-10.786	MWD+IFR1+MS
14200.000	90.000	179.724	9335.997	47.582	0.000	51.185	-0.000	47.582	0.000	0.000	51.519	39.349	-10.433	MWD+IFR1+MS
14300.000	90.000	179.724	9335.997	48.244	0.000	51.757	-0.000	48.244	0.000	0.000	52.083	39.385	-10.103	MWD+IFR1+MS
14400.000	90.000	179.724	9335.997	48.909	0.000	52.334	-0.000	48.909	0.000	0.000	52.651	39.420	-9.795	MWD+IFR1+MS
14500.000	90.000	179.724	9335.997	49.578	0.000	52.916	-0.000	49.578	0.000	0.000	53.226	39.455	-9.506	MWD+IFR1+MS
14600.000	90.000	179.724	9335.997	50.249	0.000	53.503	-0.000	50.249	0.000	0.000	53.805	39.491	-9.235	MWD+IFR1+MS
14700.000	90.000	179.724	9335.997	50.925	0.000	54.094	-0.000	50.925	0.000	0.000	54.389	39.526	-8.980	MWD+IFR1+MS
14800.000	90.000	179.724	9335.997	51.603	0.000	54.689	-0.000	51.603	0.000	0.000	54.977	39.562	-8.740	MWD+IFR1+MS
14900.000	90.000	179.724	9335.997	52.284	0.000	55.289	-0.000	52.284	0.000	0.000	55.570	39.598	-8.513	MWD+IFR1+MS
15000.000	90.000	179.724	9335.997	52.968	0.000	55.893	-0.000	52.968	0.000	0.000	56.168	39.634	-8.299	MWD+IFR1+MS
15100.000	90.000	179.724	9335.997	53.655	0.000	56.500	-0.000	53.655	0.000	0.000	56.770	39.670	-8.095	MWD+IFR1+MS
15200.000	90.000	179.724	9335.997	54.345	0.000	57.112	-0.000	54.345	0.000	0.000	57.376	39.707	-7.903	MWD+IFR1+MS
15300.000	90.000	179.724	9335.997	55.037	0.000	57.727	-0.000	55.037	0.000	0.000	57.985	39.744	-7.720	MWD+IFR1+MS
15400.000	90.000	179.724	9335.997	55.732	0.000	58.345	-0.000	55.732	0.000	0.000	58.599	39.781	-7.546	MWD+IFR1+MS
15500.000	90.000	179.724	9335.997	56.428	0.000	58.967	-0.000	56.428	0.000	0.000	59.216	39.819	-7.380	MWD+IFR1+MS
15600.000	90.000	179.724	9335.997	57.128	0.000	59.593	-0.000	57.128	0.000	0.000	59.837	39.857	-7.222	MWD+IFR1+MS
15700.000	90.000	179.724	9335.997	57.829	0.000	60.222	-0.000	57.829	0.000	0.000	60.461	39.895	-7.071	MWD+IFR1+MS

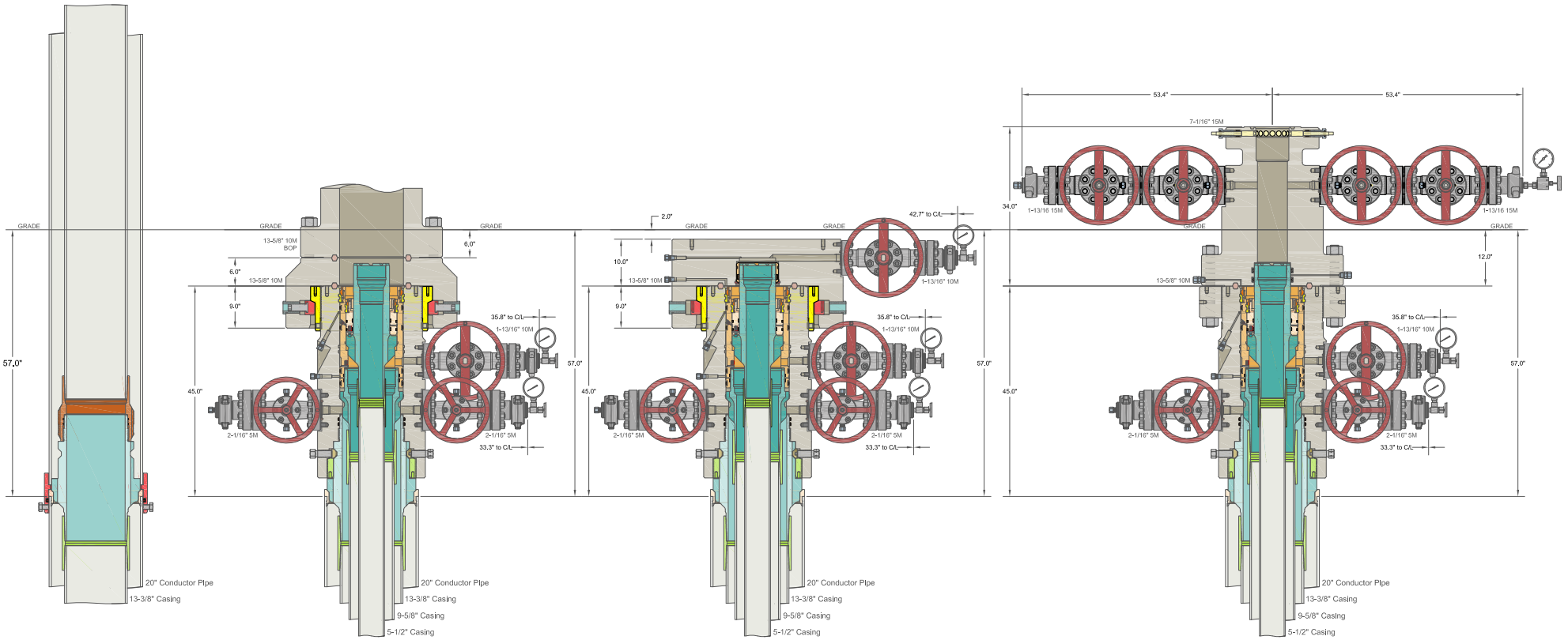
15800.000	90.000	179.724	9335.997	58.533	0.000	60.853	-0.000	58.533	0.000	0.000	61.088	39.934	-6.927	MWD+IFR1+MS
15900.000	90.000	179.724	9335.997	59.238	0.000	61.488	-0.000	59.238	0.000	0.000	61.719	39.973	-6.789	MWD+IFR1+MS
16000.000	90.000	179.724	9335.997	59.946	0.000	62.126	-0.000	59.946	0.000	0.000	62.353	40.012	-6.657	MWD+IFR1+MS
16100.000	90.000	179.724	9335.997	60.655	0.000	62.767	-0.000	60.655	0.000	0.000	62.990	40.052	-6.530	MWD+IFR1+MS
16200.000	90.000	179.724	9335.997	61.366	0.000	63.410	-0.000	61.366	0.000	0.000	63.629	40.092	-6.409	MWD+IFR1+MS
16300.000	90.000	179.724	9335.997	62.079	0.000	64.056	-0.000	62.079	0.000	0.000	64.272	40.133	-6.292	MWD+IFR1+MS
16400.000	90.000	179.724	9335.997	62.794	0.000	64.705	-0.000	62.794	0.000	0.000	64.917	40.173	-6.180	MWD+IFR1+MS
16500.000	90.000	179.724	9335.997	63.511	0.000	65.356	-0.000	63.511	0.000	0.000	65.565	40.215	-6.072	MWD+IFR1+MS
16600.000	90.000	179.724	9335.997	64.229	0.000	66.010	-0.000	64.229	0.000	0.000	66.215	40.256	-5.968	MWD+IFR1+MS
16700.000	90.000	179.724	9335.997	64.948	0.000	66.666	-0.000	64.948	0.000	0.000	66.868	40.298	-5.869	MWD+IFR1+MS
16800.000	90.000	179.724	9335.997	65.669	0.000	67.324	-0.000	65.669	0.000	0.000	67.524	40.341	-5.772	MWD+IFR1+MS
16900.000	90.000	179.724	9335.997	66.392	0.000	67.985	-0.000	66.392	0.000	0.000	68.181	40.384	-5.679	MWD+IFR1+MS
17000.000	90.000	179.724	9335.997	67.116	0.000	68.647	-0.000	67.116	0.000	0.000	68.841	40.427	-5.589	MWD+IFR1+MS
17100.000	90.000	179.724	9335.997	67.841	0.000	69.312	-0.000	67.841	0.000	0.000	69.503	40.471	-5.503	MWD+IFR1+MS
17200.000	90.000	179.724	9335.997	68.567	0.000	69.979	-0.000	68.567	0.000	0.000	70.167	40.515	-5.419	MWD+IFR1+MS
17300.000	90.000	179.724	9335.997	69.295	0.000	70.648	-0.000	69.295	0.000	0.000	70.834	40.560	-5.338	MWD+IFR1+MS
17400.000	90.000	179.724	9335.997	70.024	0.000	71.319	-0.000	70.024	0.000	0.000	71.502	40.605	-5.259	MWD+IFR1+MS
17500.000	90.000	179.724	9335.997	70.754	0.000	71.992	-0.000	70.754	0.000	0.000	72.172	40.650	-5.183	MWD+IFR1+MS
17600.000	90.000	179.724	9335.997	71.486	0.000	72.667	-0.000	71.486	0.000	0.000	72.845	40.696	-5.110	MWD+IFR1+MS
17700.000	90.000	179.724	9335.997	72.218	0.000	73.343	-0.000	72.218	0.000	0.000	73.519	40.742	-5.038	MWD+IFR1+MS
17800.000	90.000	179.724	9335.997	72.952	0.000	74.021	-0.000	72.952	0.000	0.000	74.195	40.789	-4.969	MWD+IFR1+MS
17900.000	90.000	179.724	9335.997	73.687	0.000	74.701	-0.000	73.687	0.000	0.000	74.872	40.836	-4.902	MWD+IFR1+MS
18000.000	90.000	179.724	9335.997	74.422	0.000	75.382	-0.000	74.422	0.000	0.000	75.552	40.884	-4.837	MWD+IFR1+MS
18100.000	90.000	179.724	9335.997	75.159	0.000	76.066	-0.000	75.159	0.000	0.000	76.233	40.932	-4.773	MWD+IFR1+MS
18200.000	90.000	179.724	9335.997	75.897	0.000	76.750	-0.000	75.897	0.000	0.000	76.915	40.980	-4.712	MWD+IFR1+MS
18300.000	90.000	179.724	9335.997	76.635	0.000	77.436	-0.000	76.635	0.000	0.000	77.599	41.029	-4.652	MWD+IFR1+MS
18400.000	90.000	179.724	9335.997	77.375	0.000	78.124	-0.000	77.375	0.000	0.000	78.285	41.078	-4.594	MWD+IFR1+MS
18500.000	90.000	179.724	9335.997	78.115	0.000	78.813	-0.000	78.115	0.000	0.000	78.972	41.128	-4.537	MWD+IFR1+MS
18600.000	90.000	179.724	9335.997	78.856	0.000	79.503	-0.000	78.856	0.000	0.000	79.661	41.178	-4.482	MWD+IFR1+MS
18700.000	90.000	179.724	9335.997	79.598	0.000	80.195	-0.000	79.598	0.000	0.000	80.351	41.229	-4.429	MWD+IFR1+MS
18800.000	90.000	179.724	9335.997	80.341	0.000	80.888	-0.000	80.341	0.000	0.000	81.042	41.280	-4.377	MWD+IFR1+MS
18900.000	90.000	179.724	9335.997	81.085	0.000	81.583	-0.000	81.085	0.000	0.000	81.735	41.331	-4.326	MWD+IFR1+MS
19000.000	90.000	179.724	9335.997	81.829	0.000	82.279	-0.000	81.829	0.000	0.000	82.429	41.383	-4.276	MWD+IFR1+MS

19100.000	90.000	179.724	9335.997	82.575	0.000	82.975	-0.000	82.575	0.000	0.000	83.124	41.435	-4.228	MWD+IFR1+MS
19200.000	90.000	179.724	9335.997	83.320	0.000	83.674	-0.000	83.320	0.000	0.000	83.820	41.488	-4.181	MWD+IFR1+MS
19300.000	90.000	179.724	9335.997	84.067	0.000	84.373	-0.000	84.067	0.000	0.000	84.518	41.541	-4.135	MWD+IFR1+MS
19400.000	90.000	179.724	9335.997	84.814	0.000	85.073	-0.000	84.814	0.000	0.000	85.217	41.594	-4.090	MWD+IFR1+MS
19500.000	90.000	179.724	9335.997	85.562	0.000	85.775	-0.000	85.562	0.000	0.000	85.917	41.648	-4.046	MWD+IFR1+MS
19600.000	90.000	179.724	9335.997	86.311	0.000	86.478	-0.000	86.311	0.000	0.000	86.618	41.703	-4.003	MWD+IFR1+MS
19700.000	90.000	179.724	9335.997	87.060	0.000	87.181	-0.000	87.060	0.000	0.000	87.320	41.758	-3.961	MWD+IFR1+MS
19800.000	90.000	179.724	9335.997	87.810	0.000	87.886	-0.000	87.810	0.000	0.000	88.024	41.813	-3.920	MWD+IFR1+MS
19900.000	90.000	179.724	9335.997	88.561	0.000	88.592	-0.000	88.561	0.000	0.000	88.728	41.868	-3.880	MWD+IFR1+MS
20000.000	90.000	179.724	9335.997	89.312	0.000	89.298	-0.000	89.312	0.000	0.000	89.433	41.924	-3.841	MWD+IFR1+MS
20100.000	90.000	179.724	9335.997	90.063	0.000	90.006	-0.000	90.063	0.000	0.000	90.140	41.981	-3.803	MWD+IFR1+MS
20200.000	90.000	179.724	9335.997	90.816	0.000	90.715	-0.000	90.816	0.000	0.000	90.847	42.038	-3.766	MWD+IFR1+MS
20300.000	90.000	179.724	9335.997	91.568	0.000	91.424	-0.000	91.568	0.000	0.000	91.555	42.095	-3.729	MWD+IFR1+MS
20400.000	90.000	179.724	9335.997	92.322	0.000	92.135	-0.000	92.322	0.000	0.000	92.265	42.153	-3.693	MWD+IFR1+MS
20500.000	90.000	179.724	9335.997	93.075	0.000	92.846	-0.000	93.075	0.000	0.000	92.975	42.211	-3.658	MWD+IFR1+MS
20600.000	90.000	179.724	9335.997	93.830	0.000	93.558	-0.000	93.830	0.000	0.000	93.686	42.269	-3.624	MWD+IFR1+MS
20700.000	90.000	179.724	9335.997	94.585	0.000	94.271	-0.000	94.585	0.000	0.000	94.397	42.328	-3.590	MWD+IFR1+MS
20800.000	90.000	179.724	9335.997	95.340	0.000	94.985	-0.000	95.340	0.000	0.000	95.110	42.388	-3.557	MWD+IFR1+MS
20900.000	90.000	179.724	9335.997	96.096	0.000	95.700	-0.000	96.096	0.000	0.000	95.823	42.447	-3.525	MWD+IFR1+MS
21000.000	90.000	179.724	9335.997	96.852	0.000	96.415	-0.000	96.852	0.000	0.000	96.538	42.508	-3.494	MWD+IFR1+MS
21100.000	90.000	179.724	9335.997	97.609	0.000	97.131	-0.000	97.609	0.000	0.000	97.253	42.568	-3.463	MWD+IFR1+MS
21200.000	90.000	179.724	9335.997	98.366	0.000	97.848	-0.000	98.366	0.000	0.000	97.969	42.629	-3.432	MWD+IFR1+MS
21300.000	90.000	179.724	9335.997	99.123	0.000	98.566	-0.000	99.123	0.000	0.000	98.685	42.690	-3.402	MWD+IFR1+MS
21400.000	90.000	179.724	9335.997	99.881	0.000	99.284	-0.000	99.881	0.000	0.000	99.402	42.752	-3.373	MWD+IFR1+MS
21500.000	90.000	179.724	9335.997	100.640	0.000	100.003	-0.000	100.640	0.000	0.000	100.120	42.814	-3.345	MWD+IFR1+MS
21600.000	90.000	179.724	9335.997	101.399	0.000	100.723	-0.000	101.399	0.000	0.000	100.839	42.877	-3.316	MWD+IFR1+MS
21700.000	90.000	179.724	9335.997	102.158	0.000	101.443	-0.000	102.158	0.000	0.000	101.559	42.940	-3.289	MWD+IFR1+MS
21800.000	90.000	179.724	9335.997	102.917	0.000	102.164	-0.000	102.917	0.000	0.000	102.279	43.003	-3.262	MWD+IFR1+MS
21900.000	90.000	179.724	9335.997	103.677	0.000	102.886	-0.000	103.677	0.000	0.000	102.999	43.067	-3.235	MWD+IFR1+MS
22000.000	90.000	179.724	9335.997	104.438	0.000	103.608	-0.000	104.438	0.000	0.000	103.721	43.131	-3.209	MWD+IFR1+MS
22100.000	90.000	179.724	9335.997	105.198	0.000	104.331	-0.000	105.198	0.000	0.000	104.443	43.195	-3.183	MWD+IFR1+MS
22200.000	90.000	179.724	9335.997	105.959	0.000	105.055	-0.000	105.959	0.000	0.000	105.165	43.260	-3.158	MWD+IFR1+MS
22300.000	90.000	179.724	9335.997	106.721	0.000	105.779	-0.000	106.721	0.000	0.000	105.889	43.326	-3.133	MWD+IFR1+MS

22400.000	90.000	179.724	9335.997	107.482	0.000	106.504	-0.000	107.482	0.000	0.000	106.613	43.391	-3.109	MWD+IFR1+MS
22500.000	90.000	179.724	9335.997	108.244	0.000	107.229	-0.000	108.244	0.000	0.000	107.337	43.457	-3.085	MWD+IFR1+MS
22600.000	90.000	179.724	9335.997	109.007	0.000	107.955	-0.000	109.007	0.000	0.000	108.062	43.524	-3.062	MWD+IFR1+MS
22700.000	90.000	179.724	9335.997	109.769	0.000	108.681	-0.000	109.769	0.000	0.000	108.788	43.591	-3.039	MWD+IFR1+MS
22800.000	90.000	179.724	9335.997	110.532	0.000	109.408	-0.000	110.532	0.000	0.000	109.514	43.658	-3.016	MWD+IFR1+MS
22900.000	90.000	179.724	9335.997	111.296	0.000	110.136	-0.000	111.296	0.000	0.000	110.240	43.725	-2.994	MWD+IFR1+MS
23000.000	90.000	179.724	9335.997	112.059	0.000	110.864	-0.000	112.059	0.000	0.000	110.967	43.793	-2.972	MWD+IFR1+MS
23100.000	90.000	179.724	9335.997	112.823	0.000	111.592	-0.000	112.823	0.000	0.000	111.695	43.862	-2.950	MWD+IFR1+MS
23200.000	90.000	179.724	9335.997	113.587	0.000	112.321	-0.000	113.587	0.000	0.000	112.423	43.930	-2.929	MWD+IFR1+MS
23300.000	90.000	179.724	9335.997	114.352	0.000	113.051	-0.000	114.352	0.000	0.000	113.152	43.999	-2.908	MWD+IFR1+MS
23400.000	90.000	179.724	9335.997	115.116	0.000	113.781	-0.000	115.116	0.000	0.000	113.881	44.069	-2.887	MWD+IFR1+MS
23500.000	90.000	179.724	9335.997	115.881	0.000	114.511	-0.000	115.881	0.000	0.000	114.611	44.139	-2.867	MWD+IFR1+MS
23600.000	90.000	179.724	9335.997	116.647	0.000	115.242	-0.000	116.647	0.000	0.000	115.341	44.209	-2.847	MWD+IFR1+MS
23700.000	90.000	179.724	9335.997	117.412	0.000	115.973	-0.000	117.412	0.000	0.000	116.071	44.279	-2.827	MWD+IFR1+MS
23800.000	90.000	179.724	9335.997	118.178	0.000	116.705	-0.000	118.178	0.000	0.000	116.802	44.350	-2.808	MWD+IFR1+MS
23900.000	90.000	179.724	9335.997	118.944	0.000	117.437	-0.000	118.944	0.000	0.000	117.534	44.421	-2.789	MWD+IFR1+MS
24000.000	90.000	179.724	9335.997	119.710	0.000	118.169	-0.000	119.710	0.000	0.000	118.266	44.493	-2.770	MWD+IFR1+MS
24100.000	90.000	179.724	9335.997	120.477	0.000	118.902	-0.000	120.477	0.000	0.000	118.998	44.565	-2.752	MWD+IFR1+MS
24200.000	90.000	179.724	9335.997	121.243	0.000	119.636	-0.000	121.243	0.000	0.000	119.731	44.637	-2.734	MWD+IFR1+MS
24300.000	90.000	179.724	9335.997	122.010	0.000	120.370	-0.000	122.010	0.000	0.000	120.464	44.710	-2.716	MWD+IFR1+MS
24400.000	90.000	179.724	9335.997	122.778	0.000	121.104	-0.000	122.778	0.000	0.000	121.197	44.783	-2.698	MWD+IFR1+MS
24500.000	90.000	179.724	9335.997	123.545	0.000	121.838	-0.000	123.545	0.000	0.000	121.931	44.856	-2.681	MWD+IFR1+MS
24600.000	90.000	179.724	9335.997	124.313	0.000	122.573	-0.000	124.313	0.000	0.000	122.666	44.930	-2.664	MWD+IFR1+MS
24700.000	90.000	179.724	9335.997	125.080	0.000	123.309	-0.000	125.080	0.000	0.000	123.400	45.004	-2.647	MWD+IFR1+MS
24750.857	90.000	179.724	9335.997	125.470	0.000	123.682	-0.000	125.470	0.000	0.000	123.773	45.042	-2.638	MWD+IFR1+MS
24800.977	90.000	179.724	9335.997	125.855	0.000	124.050	-0.000	125.855	0.000	0.000	124.141	45.079	-2.630	MWD+IFR1+MS

Plan Targets Poker Lake Unit 19 DTD South 422H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 32	9499.02	440351.80	629967.30	6125.00	RECTANGLE
LTP 32	24751.02	424678.80	630042.70	6125.00	RECTANGLE
BHL 32	24801.22	424628.80	630042.80	6125.00	RECTANGLE



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	

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
30-015-53840	26526	Forty Niner; Bone Springs

[4] Property Code	[5] Property Name	[6] Well Number
333976	POKER LAKE UNIT 19 DTD SOUTH	422H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC	3,179'

[10] Surface Location

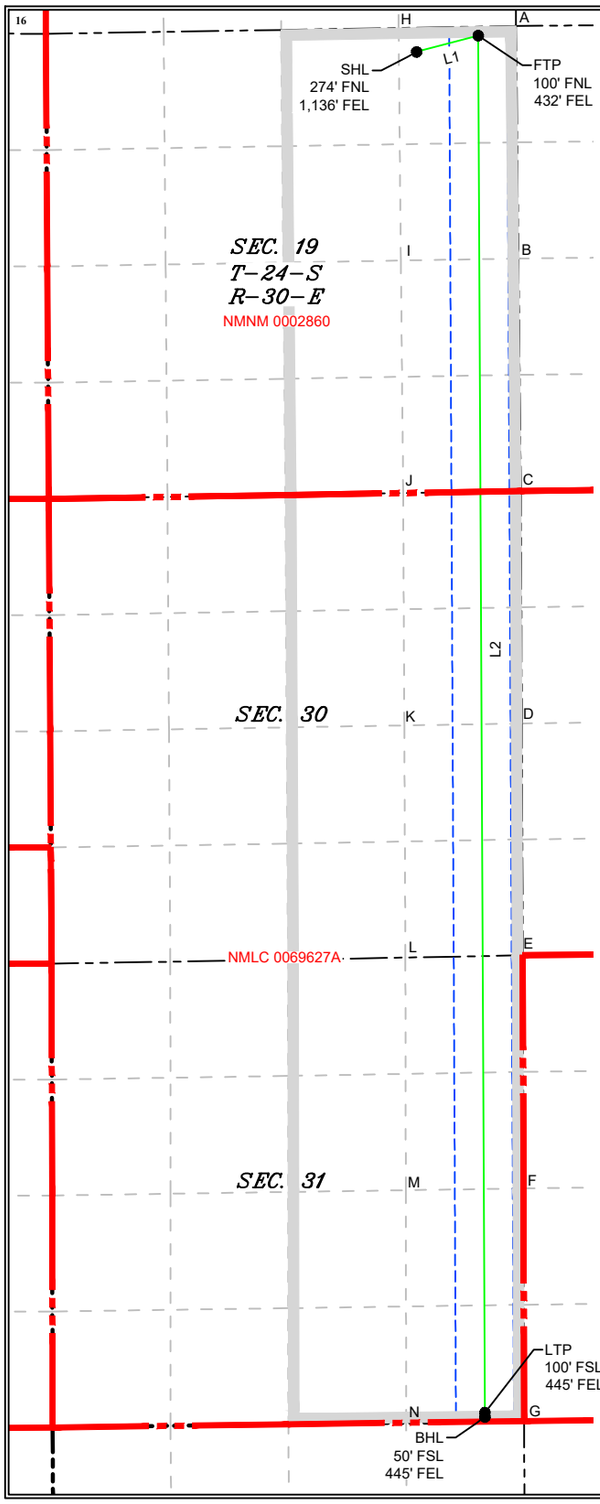
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	19	24S	30E		274	NORTH	1,136	EAST	EDDY

[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
P	31	24S	30E		50	SOUTH	445	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	075°10'58"	726.41'
L2	179°43'22"	15,723.57'

COORDINATE TABLE

SHL (NAD 83 NME)	SHL (NAD 27 NME)
Y = 440,225.3 N	Y = 440,166.0 N
X = 670,448.7 E	X = 629,265.0 E
LAT. = 32.209567 °N	LAT. = 32.209443 °N
LONG. = 103.915879 °W	LONG. = 103.915391 °W

FTP (NAD 83 NME)	FTP (NAD 27 NME)
Y = 440,411.1 N	Y = 440,351.8 N
X = 671,150.9 E	X = 629,967.3 E
LAT. = 32.210070 °N	LAT. = 32.209946 °N
LONG. = 103.913606 °W	LONG. = 103.913118 °W

LTP (NAD 83 NME)	LTP (NAD 27 NME)
Y = 424,737.7 N	Y = 424,678.8 N
X = 671,226.8 E	X = 630,042.7 E
LAT. = 32.166986 °N	LAT. = 32.166861 °N
LONG. = 103.913558 °W	LONG. = 103.913072 °W

BHL (NAD 83 NME)	BHL (NAD 27 NME)
Y = 424,687.7 N	Y = 424,628.8 N
X = 671,227.0 E	X = 630,042.8 E
LAT. = 32.166848 °N	LAT. = 32.166723 °N
LONG. = 103.913559 °W	LONG. = 103.913073 °W

CORNER COORDINATES (NAD 83 NME)

A - Y = 440,518.1 N	A - X = 671,581.7 E
B - Y = 437,872.8 N	B - X = 671,608.7 E
C - Y = 435,227.3 N	C - X = 671,636.4 E
D - Y = 432,582.2 N	D - X = 671,647.1 E
E - Y = 429,944.5 N	E - X = 671,658.1 E
F - Y = 427,291.7 N	F - X = 671,665.3 E
G - Y = 424,643.6 N	G - X = 671,672.5 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 = 440,458.8 N	A - X = 630,398.1 E
B - Y = 437,813.6 N	B - X = 630,425.0 E
C - Y = 435,168.2 N	C - X = 630,452.5 E
D - Y = 432,523.1 N	D - X = 630,463.2 E
E - Y = 429,885.5 N	E - X = 630,474.1 E
F - Y = 427,232.8 N	F - X = 630,481.2 E
G - Y = 424,584.7 N	G - X = 630,488.3 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 03/05/2024
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 NEW MEXICO 23786 PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number

RP 618.013003.05-62

J:\618.013 XTO Energy - NM\003 Poker Lake Unit\05 - PLU 19 DTD - EDDY\Wells\62 - 422H\DWG\SOUTH 422H 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

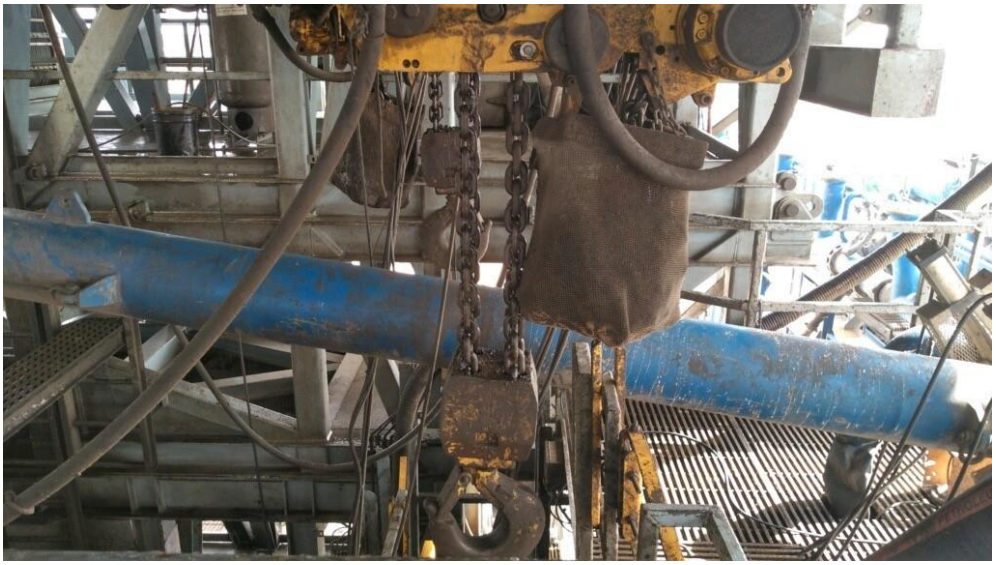


Figure 2: BOP Winch System

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.

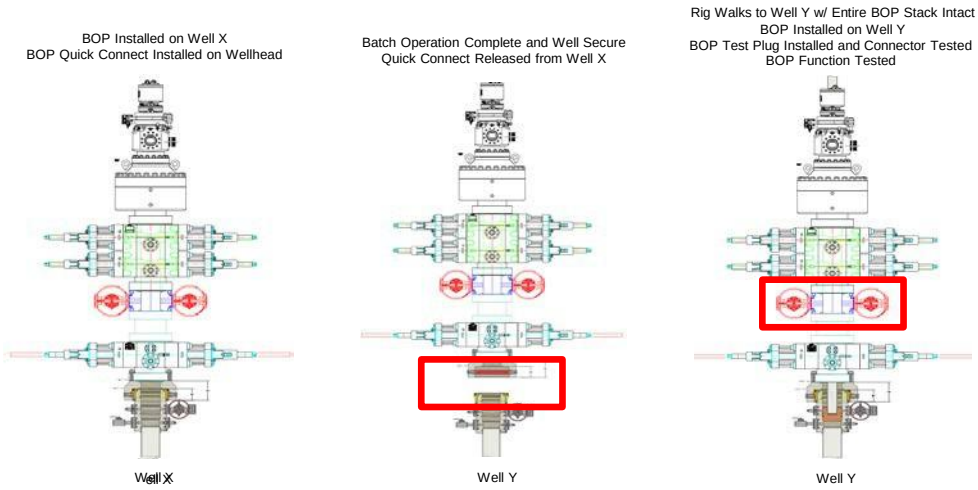
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

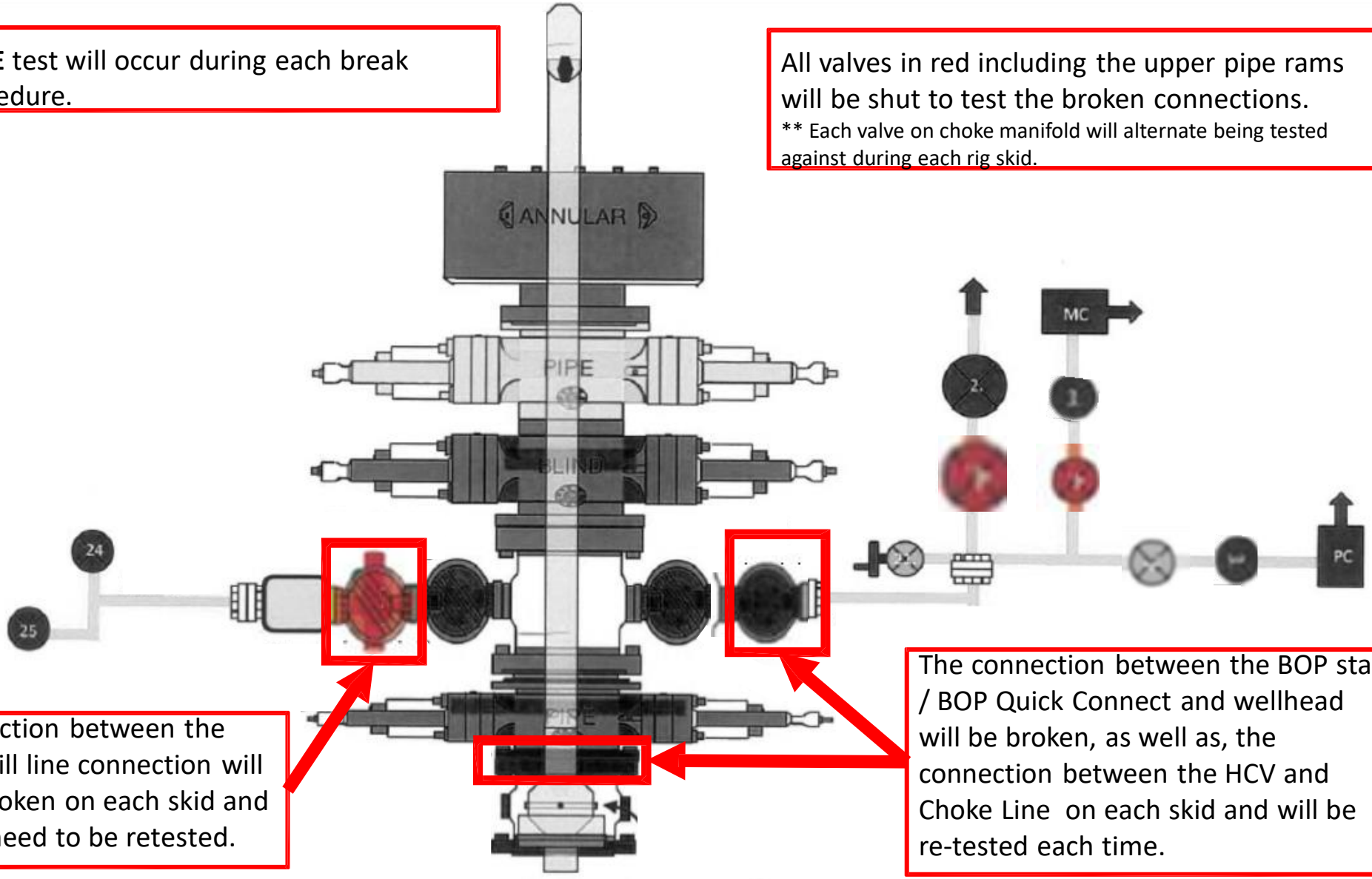
3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

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 422H
Projected TD: 24800.98' MD / 9336' TVD
SHL: 274' FNL & 1136' FEL , Section 19, T24S, R30E
BHL: 50' FSL & 445' 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	688'	Water
Top of Salt	1091'	Water
Base of Salt	3284'	Water
Delaware	3478'	Water
Brushy Canyon	5976'	Water/Oil/Gas
Bone Spring	7272'	Water
1st Bone Spring	8258'	Water/Oil/Gas
2nd Bone Spring	9076'	Water/Oil/Gas
Target/Land Curve	9336'	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 @ 788' (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 8469' and cemented to surface. A 8.5 inch curve and 8.5 inch lateral hole will be drilled to 24800.98 MD/TD and 5.5 inch production casing will be set at TD and cemented back up in the intermediate shoe (estimated TOC 8169 feet).

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 788'	13.375	54.5	J-55	BTC	New	1.57	3.28	21.17
12.25	0' – 4000'	9.625	40	HC P-110	BTC	New	3.35	2.48	3.74
12.25	4000' – 8469'	9.625	40	HC L-80	BTC	New	2.43	2.37	5.12
8.5	0' – 8369'	5.5	20	RY P-110	Semi-Premium	New	1.21	3.67	2.42
8.5	8369' - 24800.98'	5.5	20	RY P-110	Semi-Premium	New	1.21	3.29	2.42

· 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 +/- 788'

Lead: 360 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 +/- 8469'
1st Stage
Optional Lead: 1010 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)
TOC: Surface
Tail: 720 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
TOC: Brushy Canyon @ 5976
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: 2110 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 (5976') 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 +/- 24800.98'

Lead: 50 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 8169 feet
Tail: 3180 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 8669 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 2364 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' - 788'	17.5	FW/Native	8.4-8.9	35-40	NC
788' - 8469'	12.25	FW / Cut Brine / Direct Emulsion	8.2-8.7	30-32	NC
8469' - 24800.98'	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 4418 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.

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.

General Procedure While Drilling

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

Action 337540

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 337540
	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.	4/26/2024