

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.**5. Lease Serial No.  
NMLC063875A

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**7. If Unit or CA/Agreement, Name and/or No.  
891000303X

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.  
POKER LAKE UNIT 27 BD 165H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly\_kardos@xtoenergy.com

9. API Well No.

30-015-46260-00-X1

3a. Address

6401 HOLIDAY HILL ROAD BLDG 5  
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

10. Field and Pool or Exploratory Area  
PURPLE SAGE-WOLFCAMP (GAS)

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

Sec 27 T25S R30E SWNE 2510FNL 2038FEL  
32.101582 N Lat, 103.867012 W Lon

11. County or Parish, State

EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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

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

Casing/Cement design per the attached drilling program.

Change BHL from 200FSL &amp; 2310FEL to 200FSL &amp; 2555FEL

XTO also requests the following variances:

XTO requests to use a 5000 psi annular BOP with a 10,000 psi BOP stack. Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi

Approval to utilize a spudder rig to pre-set surface casing per the attached Description of

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #519617 verified by the BLM Well Information System  
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 06/21/2020 (20PP3207SE)**

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 06/19/2020

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By JENNIFER SANCHEZ

Title PETROLEUM ENGINEER

Date 06/22/2020

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

Office Carlsbad

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

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

Accepted - KMS NMOCD

## **Additional data for EC transaction #519617 that would not fit on the form**

### **32. Additional remarks, continued**

Operations.

Batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

ONLY test broken pressure seals on the BOP equipment per the attached procedure.

A variance is requested to cement offline for the surface and intermediate casing strings.

Attachments:

C102 & Supplement

Drilling Program

5M10MBOP / 10MCM

Wild Well Control Plan

Direction Drill Plan

Multibowl Diagram

Spudder Rig Description of Operations

BOP Break Test Procedure

## Revisions to Operator-Submitted EC Data for Sundry Notice #519617

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMLC063875A	NMLC063875A
Agreement:	NMNM71016X	891000303X (NMNM71016X)
Operator:	XTO PERMIAN OPERATING, LLC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374	XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com  Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com  Ph: 432-620-4374
Tech Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com  Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com  Ph: 432-620-4374
Location: State: County:	NM EDDY	NM EDDY
Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	POKER LAKE UNIT 27 BD 165H Sec 27 T25S R30E Mer NMP SWNE 2510FNL 2038FEL	POKER LAKE UNIT 27 BD 165H Sec 27 T25S R30E SWNE 2510FNL 2038FEL 32.101582 N Lat, 103.867012 W Lon

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>XTO Permian Operating, LLC</b>
<b>LEASE NO.:</b>	<b>NMLC-0063875A</b>
<b>WELL NAME &amp; NO.:</b>	<b>Poker Lake Unit 27 BD 165H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>2510' FNL &amp; 2038' FEL</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>0200' FSL &amp; 2555' FEL Sec. 34, T. 25 S., R 30 E.</b>
<b>LOCATION:</b>	<b>Section 27, T. 25 S., R 30 E., NMPM</b>
<b>COUNTY:</b>	<b>Eddy County, New Mexico</b>

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input type="radio"/> Multibowl	<input checked="" type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit

**Possibility of water flows in the Salado and Castile.**

**Possibility of lost circulation in the Red beds, Rustler, and Delaware.**

**Abnormal pressures may be encountered in the 3rd Bone Spring and all subsequent formations.**

### **A. HYDROGEN SULFIDE**

- Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**

## B. CASING

1. The **11-3/4** inch surface casing shall be set at approximately **1160** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
  - Cement as proposed. Report Echo meter results on subsequent sundry.
3. The minimum required fill of cement behind the **5-1/2 X 5** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

## C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance approved to use a 5M annular. The annular must be tested to 70% working pressure (3500 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 OOGO2.III.A.2.i must be followed.

### **BOP Break Testing Variance**

- Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater.
- 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 prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

## **D. SPECIAL REQUIREMENTS**

### **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.

## 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

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 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 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.
3. 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.
4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
5. 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.
6. 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.

## B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

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.
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 when specified), 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. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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).
  - c. 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.
  - d. The results of the test shall be reported to the appropriate BLM office.

- e. 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.
- f. 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.
- g. 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 Onshore Order No. 2.

#### 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.

**JAM 06222020**

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-46260	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name
<sup>4</sup> Property Code	<sup>5</sup> Property Name POKER LAKE UNIT 27 BD	<sup>6</sup> Well Number 165H
<sup>7</sup> OGRID No. 373075	<sup>8</sup> Operator Name XTO PERMIAN OPERATING, LLC	<sup>9</sup> Elevation 3,288'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	27	25 S	30 E		2,510	NORTH	2,038	EAST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	34	25 S	30 E		200	SOUTH	2,555	EAST	EDDY

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

<p><b>SEC. 27 T25S R30E</b></p> <p><b>SEC. 26</b></p> <p><b>SEC. 34 T25S R30E</b></p> <p><b>SEC. 35</b></p> <p><b>SEC. 3 T26S R30E</b></p> <p><b>SEC. 2</b></p> <p>GRID AZ.=225°02'27" HORIZ. DIST.=729.85'</p> <p>GRID AZ.=179°58'11" HORIZ. DIST.=7,439.36'</p> <p>2,510'</p> <p>2,038'</p> <p>2,555'</p> <p>2,310'</p> <p>330'</p> <p>2,555'</p> <p>2,555'</p> <p>330'</p> <p>200'</p> <p>330'</p> <p>S.H.L.</p> <p>F.T.P.</p> <p>L.T.P.</p> <p>B.H.L.</p>	<p><b>GEODETIC COORDINATES</b> NAD 27 NME SURFACE LOCATION Y= 400,946.8 X= 644,548.5 LAT.= 32.101459°N LONG.= 103.866527°W</p> <p><b>GEODETIC COORDINATES</b> NAD 83 NME SURFACE LOCATION Y= 401,004.8 X= 685,733.7 LAT.= 32.101583°N LONG.= 103.867009°W</p> <p><b>FIRST TAKE POINT</b> NAD 27 NME Y= 400,431.1 X= 644,032.0 LAT.= 32.100047°N LONG.= 103.868203°W</p> <p><b>FIRST TAKE POINT</b> NAD 83 NME Y= 400,489.1 X= 685,217.2 LAT.= 32.100172°N LONG.= 103.868684°W</p> <p><b>CORNER COORDINATES TABLE</b> NAD 27 NME A - Y= 400,798.8 N, X= 645,259.3 E B - Y= 400,784.3 N, X= 643,932.1 E C - Y= 398,133.4 N, X= 645,262.0 E D - Y= 398,120.1 N, X= 643,933.4 E E - Y= 395,463.8 N, X= 645,259.4 E F - Y= 395,453.0 N, X= 643,932.1 E G - Y= 392,801.4 N, X= 645,260.9 E H - Y= 392,791.1 N, X= 643,930.8 E</p> <p><b>CORNER COORDINATES TABLE</b> NAD 83 NME A - Y= 400,856.8 N, X= 686,444.5 E B - Y= 400,842.3 N, X= 685,117.3 E C - Y= 398,191.3 N, X= 686,447.3 E D - Y= 398,178.0 N, X= 685,118.7 E E - Y= 395,521.7 N, X= 686,444.8 E F - Y= 395,510.9 N, X= 685,117.5 E G - Y= 392,859.2 N, X= 686,446.4 E H - Y= 392,848.9 N, X= 685,116.3 E</p> <p><b>LAST TAKE POINT</b> NAD 27 NME Y= 393,121.9 X= 644,035.5 LAT.= 32.079954°N LONG.= 103.868293°W</p> <p><b>LAST TAKE POINT</b> NAD 83 NME Y= 393,179.7 X= 685,221.0 LAT.= 32.080079°N LONG.= 103.868773°W</p> <p><b>BOTTOM HOLE LOCATION</b> NAD 27 NME Y= 392,991.9 X= 644,035.7 LAT.= 32.079597°N LONG.= 103.868294°W</p> <p><b>BOTTOM HOLE LOCATION</b> NAD 83 NME Y= 393,049.7 X= 685,221.2 LAT.= 32.079722°N LONG.= 103.868774°W</p>	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b> 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.</p> <p><i>Kelly Kardos</i> Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b> 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.</p> <p>06-11-2020 Date of Survey</p> <p>Signature and Seal of Professional Surveyor: <i>[Signature]</i></p> <p>MARK DILLON HARP 23786 Certificate Number</p> <p>AW 2018010099</p>
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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

**Poker Lake Unit 27 BD 165H**  
Projected TD: 19614' MD / 10874' TVD  
SHL: 2510' FNL & 2038' FEL , Section 27, T2S5, R30E  
BHL: 200' FSL & 2555' FEL , Section 34, T2S5, R30E  
Eddy County, NM

### **Casing Design**

The surface fresh water sands will be protected by setting 11-3/4" casing @ 1240' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 10974' and bring TOC back to surface. A 6-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2" x 5-0" casing will be set at TD and cemented back 300' into the 7-5/8" casing shoe.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 1240'	11-3/4"	54	BTC	J-55	New	1.26	3.69	12.69
9-7/8"	0' – 10974'	7-5/8"	29.7	BTC	HCL-80	New	1.31	2.01	2.10
6-3/4"	0' – 10874'	5-1/2"	23	BTC	P-110	New	1.21	1.90	2.89
6-3/4"	10874' - 19614'	5-0"	18	BTC	P-110	New	1.16	1.63	2.18

XTO requests to not utilize centralizers in the curve and lateral

7-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

### **WELLHEAD:**

#### *Permanent Wellhead – Multibowl System*

A. Starting Head: 13-5/8" 10M top flange x 11-3/4" SOW bottom

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

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

Operator will test the 7-5/8" casing per Onshore Order 2.

Wellhead manufacturer representative may not be present for BOP test plug installation

### **Cement Program**

#### **Surface Casing:**

Lead: 430 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

#### **Intermediate Casing:**

##### 1st Stage

Optional Lead: 740 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

Tail: 910 sxs Halcem - Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

##### 2nd Stage

Tail: 1280 sxs Halcem-Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 5.29 gal/sx water)

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 (6375') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. 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. The final cement top will be verified by Echo-meter.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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 to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, 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 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 wellhead manufacturer procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

#### **Production Casing:**

Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)

Tail: 810 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water)

Compressives: 12-hr = 800 psi 24 hr = 1500psi

### **Mud Circulation Program**

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1240'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1240' - 10974'	9-7/8"	Brine / Cut Brine / Direct Emulsion	8.5-9.7	30-32	NC
10974' to 19614'	6-3/4"	Cut Brine / WBM / OBM	13-14	32-36	NC

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

**XTO Energy Inc.**

Poker Lake Unit 27 Brushy Draw 165H

Projected TD: 19614' MD / 10874' TVD

SHL: 2510' FNL & 2038' FEL , Section 27, T25S, R30E

BHL: 200' FSL & 2555' FEL , Section 34, T25S, R30E

Eddy County, NM

**1. Geologic Name of Surface Formation**

A. Permian

**2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas**

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	895'	Water
Top of Salt	1290'	Water
Base of Salt	3692'	Water
Delaware	3910'	Water
Brushy Canyon	6375'	Water/Oil/Gas
Bone Spring	7700'	Water
1st Bone Spring Ss	8642'	Water/Oil/Gas
2nd Bone Spring Ss	9494'	Water/Oil/Gas
3rd Bone Spring Ss	10631'	Water/Oil/Gas
Wolfcamp	11021'	Water/Oil/Gas
Wolfcamp A	11156'	Water/Oil/Gas
Wolfcamp C	11785'	Water/Oil/Gas
Target/Land Curve	11786'	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 11-3/4" casing @ 1240' (50' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 10974' and bring TOC back to surface. A 6-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2" x 5-0" casing will be set at TD and cemented back 300' into the 7-5/8" casing shoe.

**3. Casing Design**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 1240'	11-3/4"	54	BTC	J-55	New	1.26	3.69	12.69
9-7/8"	0' – 10974'	7-5/8"	29.7	BTC	HCL-80	New	1.31	2.01	2.10
6-3/4"	0' – 10874'	5-1/2"	23	BTC	P-110	New	1.21	1.90	2.89
6-3/4"	10874' - 19614'	5-0"	18	BTC	P-110	New	1.16	1.63	2.18

- XTO requests to not utilize centralizers in the curve and lateral
- 7-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

**Wellhead:**

*Permanent Wellhead – Multibowl System*

A. Starting Head: 13-5/8" 10M top flange x 11-3/4" SOW bottom

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

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

#### 4. Cement Program

##### **Surface Casing: 11-3/4", 54 New J-55, BTC casing to be set at +/- 1240'**

Lead: 430 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

TOC: Surface

##### **Intermediate Casing: 7-5/8", 29.7 New HCL-80, BTC casing to be set at +/- 10974'**

###### 1st Stage

Optional Lead: 740 sxs NeoCem (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

TOC: Surface

Tail: 910 sxs Halcem - Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

TOC: Brushy Canyon (6375')

###### 2nd Stage

Tail: 1280 sxs Halcem-Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 5.29 gal/sx water)

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

TOC: Surface

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 (6375') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. 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. The final cement top will be verified by Echo-meter.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

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 to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, 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 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 wellhead manufacturer procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

##### **Production Casing: 5-1/2", 23 New P-110, BTC x 5-0", 18 New P-110, BTC casing to be set at +/- 19614'**

Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)

Tail: 810 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water)

Compressives 12-hr = 800 psi 24 hr = 1500 psi

TOC: 300' inside previous shoe

#### 5. Pressure Control Equipment

Once the permanent WH is installed on the 11-3/4" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 10M 3-Ram BOP. MASP should not exceed 5681 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). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nipping up on the 11-3/4", 10M bradenhead and flange, the BOP test will be limited to 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M 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 each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per wellhead manufacturer recommendations, XTO will contact the BLM on each rig skid on the pad. Once surface and 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 (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole

A variance is requested to cement offline for the surface and intermediate casing strings.

## 6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1240'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
1240' - 10974'	9-7/8"	Brine / Cut Brine / Direct Emulsion	8.5-9.7	30-32	NC
10974' to 19614'	6-3/4"	Cut Brine / WBM / OBM	13-14	32-36	NC

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

Spud with fresh water/native mud and set 11-3/4" surface casing, isolating the fresh water aquifer. Drill out from under 11-3/4" surface casing with a brine/oil direct emulsion mud system. 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 11-3/4" casing.

## 8. Logging, Coring and Testing Program

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

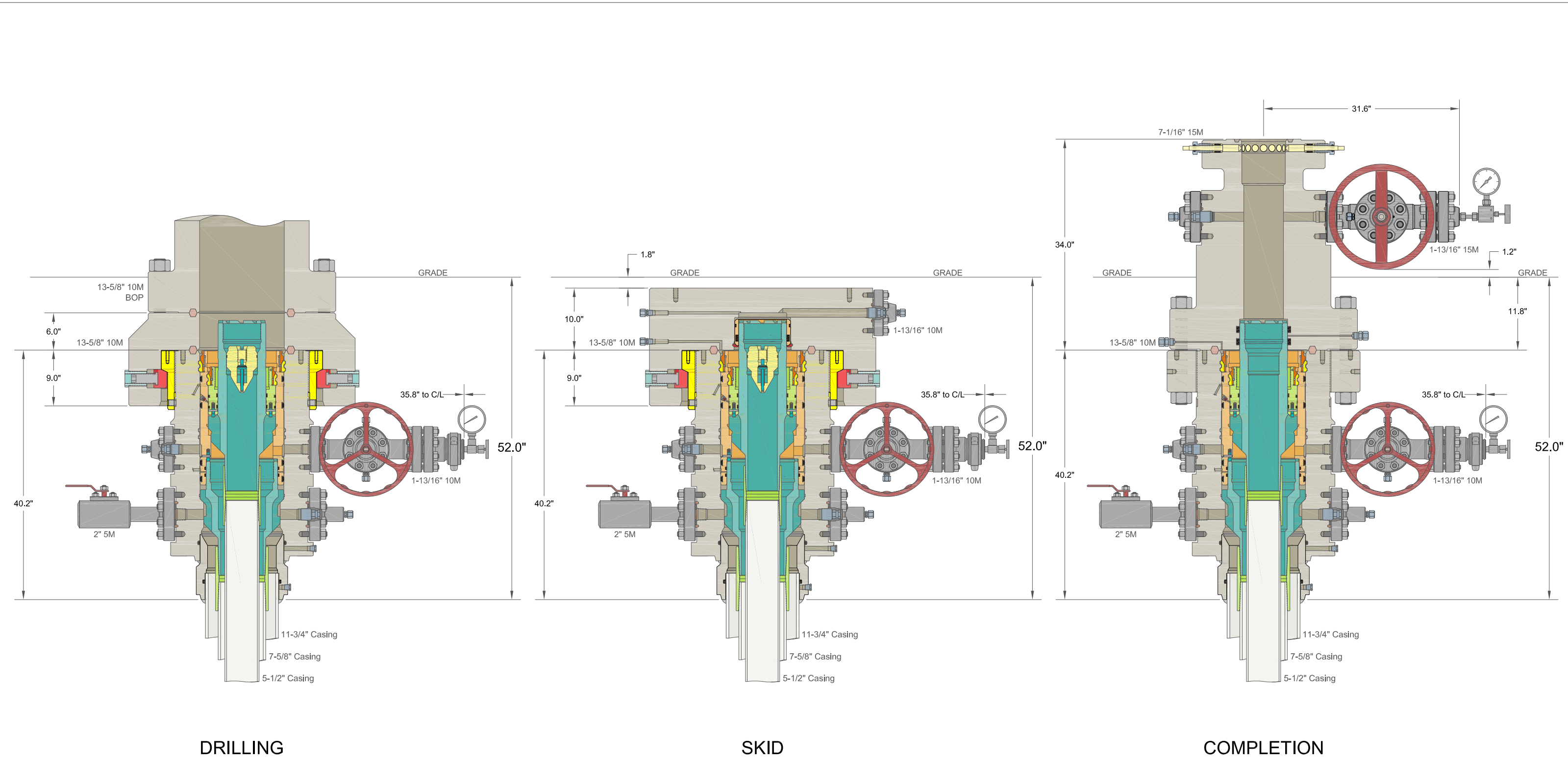
Open hole logging will not be done on this well.

## 9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 155 to 175 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 8274 psi.

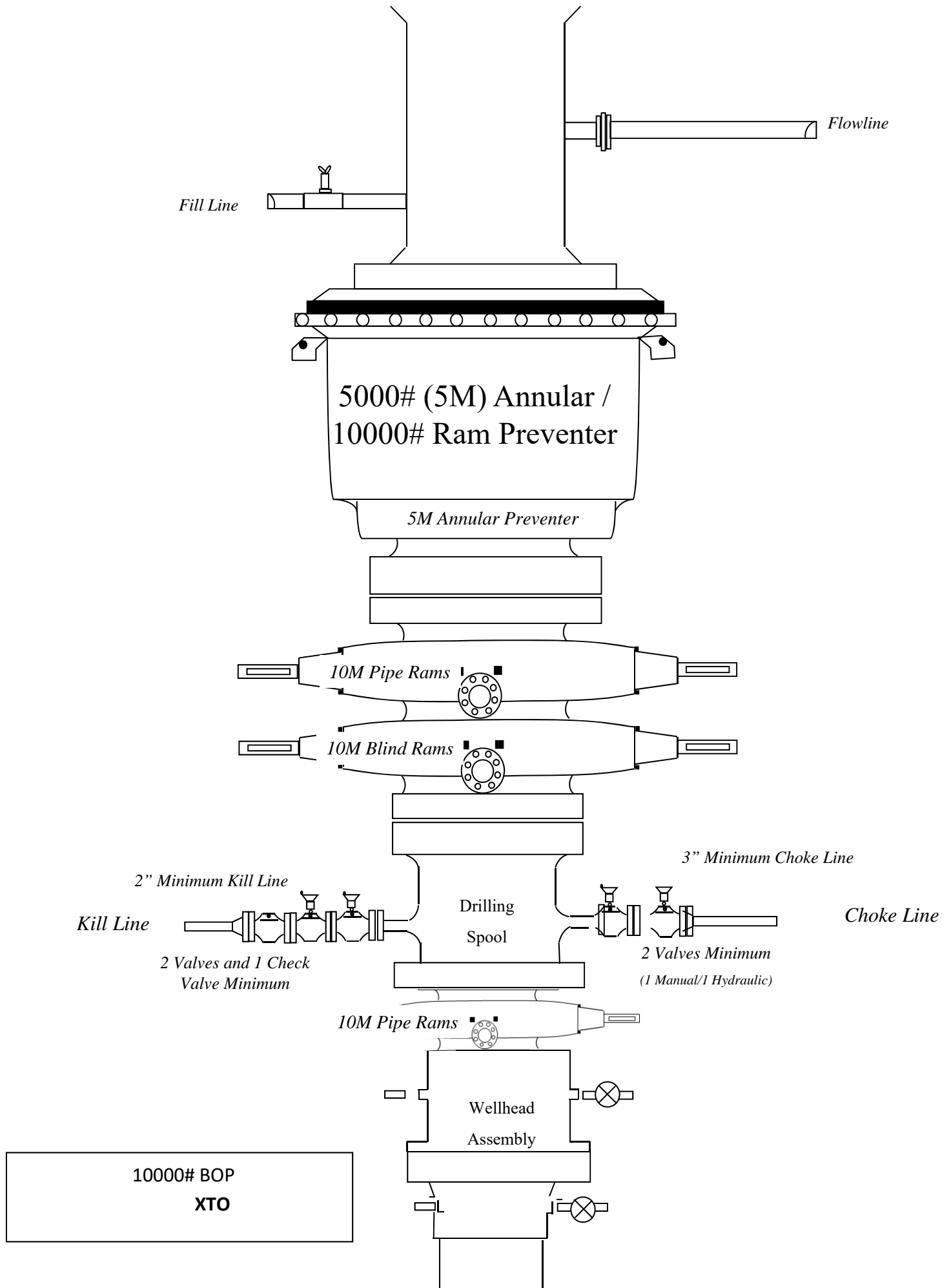
## 10. Anticipated Starting Date and Duration of Operations

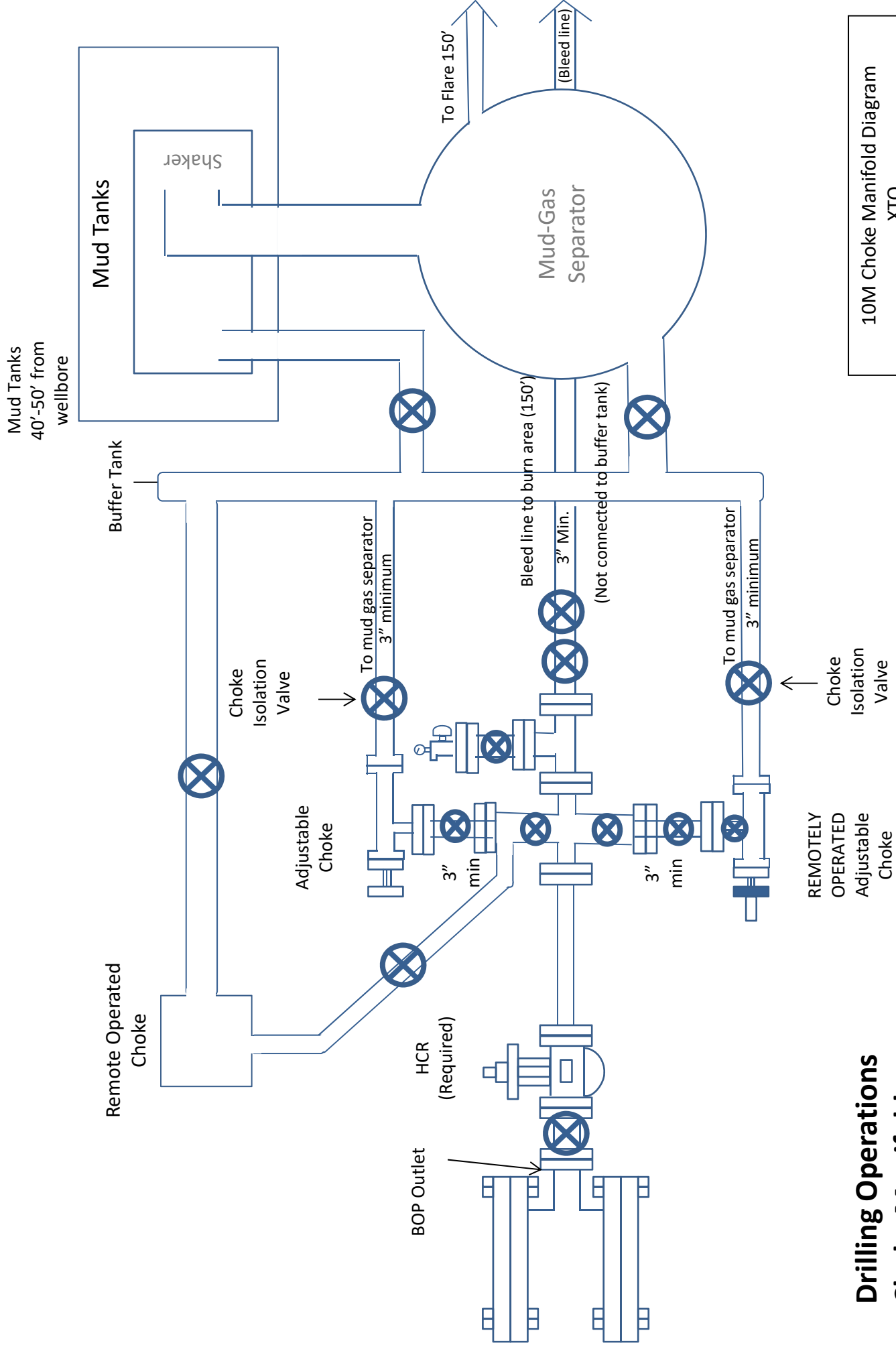
Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



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ALL DIMENSIONS APPROXIMATE			
CACTUS WELLHEAD LLC		XTO ENERGY INC POKER LAKE, NM	
30" x 11-3/4" x 7-5/8" x 5-1/2" MBU-3T-SF SOW Wellhead System With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And 7-5/8" & 5-1/2" Fluted Mandrel Casing Hangers	DRAWN	DLE	09DEC19
	APPRV		
	DRAWING NO. ODE0003261		





## 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 Onshore O&G Order No. 2 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

1. Sound alarm (alert crew)
2. Stab crossover and full-opening safety valve and close
3. Space out 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% 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

XTO Poker Lake Unit 27 BD 165H Rev1 LP 15Jun20 Proposal Geodetic  
Report  
(Def Plan)

Report Date: June 15, 2020 - 06:24 PM  
Client: XTO Energy  
Field: NM Eddy County (NAD 27)  
Structure / Slot: XTO Poker Lake Unit 27 BD 165H / New Slot  
Well: XTO Poker Lake Unit 27 BD 165H  
Borehole: XTO Poker Lake Unit 27 BD 165H  
UWI / API#: Unknown / Unknown  
Survey Name: XTO Poker Lake Unit 27 BD 165H Rev1 LP 15Jun20  
Survey Date: June 11, 2020  
Tort / AHD / DDI / ERD Ratio: 100.997 ° / 8606.796 ft / 6.160 / 0.730  
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet  
Location Lat / Long: N 32° 6' 5.25100", W 103° 51' 59.49853"  
Location Grid N/E Y/X: N 400946.800 ftUS, E 644548.500 ftUS  
CRS Grid Convergence Angle: 0.2481 °  
Grid Scale Factor: 0.99993302  
Version / Patch: 2.10.811.0

Survey / DLS Computation: Minimum Curvature / Lubinski  
Vertical Section Azimuth: 183.688 ° (Grid North)  
Vertical Section Origin: 0.000 ft, 0.000 ft  
TVD Reference Datum: RKB  
TVD Reference Elevation: 3311.000 ft above MSL  
Seabed / Ground Elevation: 3288.000 ft above MSL  
Magnetic Declination: 6.613 °  
Total Gravity Field Strength: 998.4272mgn (9.80665 Based)  
Gravity Model: GARM  
Total Magnetic Field Strength: 47720.112 nT  
Magnetic Dip Angle: 59.728 °  
Declination Date: June 11, 2020  
Magnetic Declination Model: HDGM 2020  
North Reference: Grid North  
Grid Convergence Used: 0.2481 °  
Total Corr Mag North->Grid North: 6.3646 °  
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	100.00	0.00	283.17	100.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	200.00	0.00	283.17	200.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	300.00	0.00	283.17	300.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	400.00	0.00	283.17	400.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	500.00	0.00	283.17	500.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	600.00	0.00	283.17	600.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	700.00	0.00	283.17	700.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	800.00	0.00	283.17	800.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
RSLR	895.00	0.00	283.17	895.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	900.00	0.00	283.17	900.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
Magenta Dolomite	977.00	0.00	283.17	977.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	1000.00	0.00	283.17	1000.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	1100.00	0.00	283.17	1100.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	1200.00	0.00	283.17	1200.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
11.75in Casing Salado (Top Salt)	1250.00	0.00	283.17	1250.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	1290.00	0.00	283.17	1290.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	1300.00	0.00	283.17	1300.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	1400.00	0.00	283.17	1400.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
Nudge, Build 1.5°/100' DLS	1500.00	0.00	283.17	1500.00	0.00	0.00	0.00	0.00	400946.80	644548.50	N 32 6 5.25 W 103 51 59.50	
	1600.00	1.50	283.17	1599.99	-0.22	0.30	-1.27	1.50	400947.10	644547.23	N 32 6 5.25 W 103 51 59.51	
	1700.00	3.00	283.17	1699.91	-0.86	1.19	-5.10	1.50	400947.99	644543.40	N 32 6 5.26 W 103 51 59.56	
	1800.00	4.50	283.17	1799.69	-1.94	2.68	-11.47	1.50	400949.48	644537.04	N 32 6 5.28 W 103 51 59.63	
Hold	1866.45	5.50	283.17	1865.88	-2.89	4.00	-17.10	1.50	400950.80	644531.40	N 32 6 5.29 W 103 51 59.70	
	1900.00	5.50	283.17	1899.28	-3.42	4.73	-20.23	0.00	400951.53	644528.27	N 32 6 5.30 W 103 51 59.73	
	2000.00	5.50	283.17	1998.82	-5.00	6.92	-29.56	0.00	400953.72	644518.94	N 32 6 5.32 W 103 51 59.84	
	2100.00	5.50	283.17	2098.36	-6.58	9.10	-38.89	0.00	400955.90	644509.62	N 32 6 5.34 W 103 51 59.95	
	2200.00	5.50	283.17	2197.90	-8.16	11.28	-48.21	0.00	400958.08	644500.29	N 32 6 5.36 W 103 52 0.06	
CSTL	2230.23	5.50	283.17	2228.00	-8.63	11.94	-51.03	0.00	400958.74	644497.47	N 32 6 5.37 W 103 52 0.09	
	2300.00	5.50	283.17	2297.44	-9.73	13.46	-57.54	0.00	400960.26	644490.96	N 32 6 5.39 W 103 52 0.17	
	2400.00	5.50	283.17	2396.98	-11.31	15.65	-66.87	0.00	400962.44	644481.64	N 32 6 5.41 W 103 52 0.28	
	2500.00	5.50	283.17	2496.52	-12.89	17.83	-76.19	0.00	400964.63	644472.31	N 32 6 5.43 W 103 52 0.38	
	2600.00	5.50	283.17	2596.07	-14.47	20.01	-85.52	0.00	400966.81	644462.99	N 32 6 5.45 W 103 52 0.49	
	2700.00	5.50	283.17	2695.61	-16.05	22.19	-94.85	0.00	400968.99	644453.66	N 32 6 5.47 W 103 52 0.60	
	2800.00	5.50	283.17	2795.15	-17.62	24.37	-104.17	0.00	400971.17	644444.33	N 32 6 5.50 W 103 52 0.71	
	2900.00	5.50	283.17	2894.69	-19.20	26.56	-113.50	0.00	400973.36	644435.01	N 32 6 5.52 W 103 52 0.82	
	3000.00	5.50	283.17	2994.23	-20.78	28.74	-122.83	0.00	400975.54	644425.68	N 32 6 5.54 W 103 52 0.92	
	3100.00	5.50	283.17	3093.77	-22.36	30.92	-132.15	0.00	400977.72	644416.35	N 32 6 5.56 W 103 52 1.03	
	3200.00	5.50	283.17	3193.31	-23.93	33.10	-141.48	0.00	400979.90	644407.03	N 32 6 5.58 W 103 52 1.14	
	3300.00	5.50	283.17	3292.85	-25.51	35.29	-150.81	0.00	400982.08	644397.70	N 32 6 5.61 W 103 52 1.25	
	3400.00	5.50	283.17	3392.39	-27.09	37.47	-160.14	0.00	400984.27	644388.38	N 32 6 5.63 W 103 52 1.36	
	3500.00	5.50	283.17	3491.93	-28.67	39.65	-169.46	0.00	400986.45	644379.05	N 32 6 5.65 W 103 52 1.47	
	3600.00	5.50	283.17	3591.47	-30.25	41.83	-178.79	0.00	400988.63	644369.72	N 32 6 5.67 W 103 52 1.57	
	3700.00	5.50	283.17	3691.01	-31.82	44.02	-188.12	0.00	400990.81	644360.40	N 32 6 5.69 W 103 52 1.68	
Salt_B	3701.00	5.50	283.17	3692.00	-31.84	44.04	-188.21	0.00	400990.83	644360.30	N 32 6 5.69 W 103 52 1.68	
	3800.00	5.50	283.17	3790.55	-33.40	46.20	-197.44	0.00	400992.99	644351.07	N 32 6 5.72 W 103 52 1.79	
	3900.00	5.50	283.17	3890.09	-34.98	48.38	-206.77	0.00	400995.18	644341.74	N 32 6 5.74 W 103 52 1.90	
DLWR	3920.00	5.50	283.17	3910.00	-35.29	48.82	-208.64	0.00	400995.61	644339.88	N 32 6 5.74 W 103 52 1.92	
	4000.00	5.50	283.17	3989.63	-36.56	50.56	-216.10	0.00	400997.36	644332.42	N 32 6 5.76 W 103 52 2.01	
	4100.00	5.50	283.17	4089.17	-38.13	52.75	-225.42	0.00	400999.54	644323.09	N 32 6 5.78 W 103 52 2.12	
	4200.00	5.50	283.17	4188.71	-39.71	54.93	-234.75	0.00	401001.72	644313.77	N 32 6 5.80 W 103 52 2.22	
	4300.00	5.50	283.17	4288.25	-41.29	57.11	-244.08	0.00	401003.91	644304.44	N 32 6 5.83 W 103 52 2.33	
	4400.00	5.50	283.17	4387.79	-42.87	59.29	-253.40	0.00	401006.09	644295.11	N 32 6 5.85 W 103 52 2.44	
	4500.00	5.50	283.17	4487.33	-44.45	61.47	-262.73	0.00	401008.27	644285.79	N 32 6 5.87 W 103 52 2.55	
	4600.00	5.50	283.17	4586.87	-46.02	63.66	-272.06	0.00	401010.45	644276.46	N 32 6 5.89 W 103 52 2.66	
	4700.00	5.50	283.17	4686.41	-47.60	65.84	-281.39	0.00	401012.63	644267.13	N 32 6 5.91 W 103 52 2.77	
	4800.00	5.50	283.17	4785.95	-49.18	68.02	-290.71	0.00	401014.82	644257.81	N 32 6 5.94 W 103 52 2.87	
CRCN	4848.27	5.50	283.17	4834.00	-49.94	69.07	-295.21	0.00	401015.87	644253.31	N 32 6 5.95 W 103 52 2.93	
	4900.00	5.50	283.17	4885.49	-50.76	70.20	-300.04	0.00	401017.00	644248.48	N 32 6 5.96 W 103 52 2.98	
	5000.00	5.50	283.17	4985.03	-52.33	72.39	-309.37	0.00	401019.18	644239.16	N 32 6 5.98 W 103 52 3.09	
	5100.00	5.50	283.17	5084.57	-53.91	74.57	-318.69	0.00	401021.36	644229.83	N 32 6 6.00 W 103 52 3.20	
	5200.00	5.50	283.17	5184.11	-55.49	76.75	-328.02	0.00	401023.55	644220.50	N 32 6 6.02 W 103 52 3.31	
	5300.00	5.50	283.17	5283.65	-57.07	78.93	-337.35	0.00	401025.73	644211.18	N 32 6 6.05 W 103 52 3.42	
	5400.00	5.50	283.17	5383.19	-58.65	81.12	-346.67	0.00	401027.91	644201.85	N 32 6 6.07 W 103 52 3.52	
	5500.00	5.50	283.17	5482.73	-60.22	83.30	-356.00	0.00	401030.09	644192.52	N 32 6 6.09 W 103 52 3.63	
	5600.00	5.50	283.17	5582.27	-61.80	85.48	-365.33	0.00	401032.27	644183.20	N 32 6 6.11 W 103 52 3.74	
	5700.00	5.50	283.17	5681.81	-63.38	87.66	-374.65	0.00	401034.46	644173.87	N 32 6 6.13 W 103 52 3.85	
	5800.00	5.50	283.17	5781.35	-64.96	89.84	-383.98	0.00	401036.64	644164.55	N 32 6 6.16 W 103 52 3.96	
	5900.00	5.50	283.17	5880.89	-66.53	92.03	-393.31	0.00	401038.82	644155.22	N 32 6 6.18 W 103 52 4.07	
	6000.00	5.50	283.17	5980.43	-68.11	94.21	-402.64	0.00	401041.00	644145.89	N 32 6 6.20 W 103 52 4.17	
	6100.00	5.50	283.17	6079.97	-69.69	96.39	-411.96	0.00	401043.19	644136.57	N 32 6 6.22 W 103 52 4.28	
	6200.00	5.50	283.17	6179.51	-71.27	98.57	-421.29	0.00	401045.37	644127.24	N 32 6 6.24 W 103 52 4.39	
	6300.00	5.50	283.17	6279.05	-72.85	100.76	-430.62	0.00	401047.55	644117.91	N 32 6 6.27 W 103 52 4.50	
BYCN												

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	6600.00	5.50	283.17	6577.67	-77.58	107.30	-458.60	0.00	401054.10	644089.93	N 32 6 6.33 W	103 52 4.82
	6700.00	5.50	283.17	6677.21	-79.16	109.49	-467.92	0.00	401056.28	644080.61	N 32 6 6.35 W	103 52 4.93
	6800.00	5.50	283.17	6776.75	-80.74	111.67	-477.25	0.00	401058.46	644071.28	N 32 6 6.38 W	103 52 5.04
	6900.00	5.50	283.17	6876.29	-82.31	113.85	-486.58	0.00	401060.64	644061.96	N 32 6 6.40 W	103 52 5.15
	7000.00	5.50	283.17	6975.83	-83.89	116.03	-495.90	0.00	401062.82	644052.63	N 32 6 6.42 W	103 52 5.26
Drop 1.5"/100'												
DLS	7037.84	5.50	283.17	7013.50	-84.49	116.86	-499.43	0.00	401063.65	644049.10	N 32 6 6.43 W	103 52 5.30
	7100.00	4.56	283.17	7075.42	-85.39	118.10	-504.74	1.50	401064.89	644043.79	N 32 6 6.44 W	103 52 5.36
	7200.00	3.06	283.17	7175.19	-86.48	119.62	-511.22	1.50	401066.41	644037.32	N 32 6 6.46 W	103 52 5.44
	7300.00	1.56	283.17	7275.11	-87.15	120.54	-515.15	1.50	401067.33	644033.39	N 32 6 6.47 W	103 52 5.48
	7400.00	0.06	283.17	7375.10	-87.38	120.86	-516.53	1.50	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
Hold	7404.28	0.00	283.17	7379.38	-87.38	120.86	-516.54	1.50	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	7500.00	0.00	283.17	7475.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	7600.00	0.00	283.17	7575.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	7700.00	0.00	283.17	7675.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG	7724.90	0.00	283.17	7700.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG_AVLN_S	7743.90	0.00	283.17	7719.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
S												
BSPG_U_AVLN	7758.90	0.00	283.17	7734.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
_SH												
	7800.00	0.00	283.17	7775.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	7900.00	0.00	283.17	7875.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8000.00	0.00	283.17	7975.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8100.00	0.00	283.17	8075.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG_L_AVLN	8155.90	0.00	283.17	8131.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
_SH												
	8200.00	0.00	283.17	8175.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8300.00	0.00	283.17	8275.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8400.00	0.00	283.17	8375.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8500.00	0.00	283.17	8475.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8600.00	0.00	283.17	8575.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG1	8666.90	0.00	283.17	8642.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8700.00	0.00	283.17	8675.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8800.00	0.00	283.17	8775.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	8900.00	0.00	283.17	8875.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9000.00	0.00	283.17	8975.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG2_LM	9059.90	0.00	283.17	9035.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9100.00	0.00	283.17	9075.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9200.00	0.00	283.17	9175.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9300.00	0.00	283.17	9275.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9400.00	0.00	283.17	9375.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9500.00	0.00	283.17	9475.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG2	9518.90	0.00	283.17	9494.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9600.00	0.00	283.17	9575.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9700.00	0.00	283.17	9675.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9800.00	0.00	283.17	9775.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG3_LM	9860.90	0.00	283.17	9836.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	9900.00	0.00	283.17	9875.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10000.00	0.00	283.17	9975.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10100.00	0.00	283.17	10075.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10200.00	0.00	283.17	10175.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG_HRKY	10228.90	0.00	283.17	10204.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10300.00	0.00	283.17	10275.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10400.00	0.00	283.17	10375.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10500.00	0.00	283.17	10475.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10600.00	0.00	283.17	10575.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
BSPG3	10655.90	0.00	283.17	10631.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10700.00	0.00	283.17	10675.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10800.00	0.00	283.17	10775.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	10900.00	0.00	283.17	10875.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	11000.00	0.00	283.17	10975.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
WFMP	11045.90	0.00	283.17	11021.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
WFMP_X	11074.90	0.00	283.17	11050.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
	11100.00	0.00	283.17	11075.10	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
7.625in Casing	11157.90	0.00	283.17	11133.00	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
WFMP_Y												
KOP, Build	11174.28	0.00	283.17	11149.38	-87.38	120.86	-516.54	0.00	401067.65	644032.00	N 32 6 6.47 W	103 52 5.50
9"/100' DLS												
WFMP_A	11180.90	0.60	179.97	11156.00	-87.35	120.83	-516.54	9.00	401067.62	644032.00	N 32 6 6.47 W	103 52 5.50
	11200.00	2.31	179.97	11175.09	-86.86	120.34	-516.54	9.00	401067.13	644032.00	N 32 6 6.46 W	103 52 5.50
WFMP_A_LOW	11260.16	7.73	179.97	11235.00	-81.61	115.08	-516.53	9.00	401061.87	644032.00	N 32 6 6.41 W	103 52 5.50
ER												
	11300.00	11.31	179.97	11274.28	-75.03	108.49	-516.53	9.00	401055.28	644032.01	N 32 6 6.35 W	103 52 5.50
	11400.00	20.31	179.97	11370.40	-47.87	81.26	-516.51	9.00	401028.06	644032.02	N 32 6 6.08 W	103 52 5.50
	11500.00	29.31	179.97	11461.07	-6.03	39.34	-516.49	9.00	400986.14	644032.04	N 32 6 5.66 W	103 52 5.50
WFMP_B	11584.76	36.94	179.97	11532.00	40.16	-6.95	-516.47	9.00	400939.85	644032.07	N 32 6 5.20 W	103 52 5.50
	11600.00	38.31	179.97	11544.07	49.45	-16.26	-516.46	9.00	400930.55	644032.07	N 32 6 5.11 W	103 52 5.50
	11700.00	47.31	179.97	11617.35	117.20	-84.15	-516.43	9.00	400862.66	644032.11	N 32 6 4.44 W	103 52 5.51
	11800.00	56.31	179.97	11679.11	195.55	-162.67	-516.39	9.00	400784.14	644032.15	N 32 6 3.66 W	103 52 5.51
	11900.00	65.31	179.97	11727.82	282.58	-249.88	-516.34	9.00	400696.93	644032.19	N 32 6 2.80 W	103 52 5.51
	12000.00	74.31	179.97	11762.29	376.15	-343.65	-516.29	9.00	400603.18	644032.24	N 32 6 1.87 W	103 52 5.52
	12100.00	83.31	179.97	11781.67	473.94	-441.65	-516.24	9.00	400505.19	644032.29	N 32 6 0.90 W	103 52

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	14500.00	90.00	179.97	11786.00	2868.73	-2841.48	-515.15	0.00	398105.52	644033.39	N 32 5 37.15 W 103 52 5.63	
	14600.00	90.00	179.97	11786.00	2968.52	-2941.48	-515.10	0.00	398005.53	644033.43	N 32 5 36.17 W 103 52 5.63	
	14700.00	90.00	179.97	11786.00	3068.31	-3041.48	-515.06	0.00	397905.53	644033.48	N 32 5 35.18 W 103 52 5.64	
	14800.00	90.00	179.97	11786.00	3168.10	-3141.48	-515.01	0.00	397805.54	644033.52	N 32 5 34.19 W 103 52 5.64	
	14900.00	90.00	179.97	11786.00	3267.89	-3241.48	-514.97	0.00	397705.55	644033.57	N 32 5 33.20 W 103 52 5.65	
	15000.00	90.00	179.97	11786.00	3367.68	-3341.48	-514.92	0.00	397605.55	644033.61	N 32 5 32.21 W 103 52 5.65	
	15100.00	90.00	179.97	11786.00	3467.47	-3441.48	-514.88	0.00	397505.56	644033.66	N 32 5 31.22 W 103 52 5.66	
	15200.00	90.00	179.97	11786.00	3567.26	-3541.48	-514.83	0.00	397405.57	644033.70	N 32 5 30.23 W 103 52 5.66	
	15300.00	90.00	179.97	11786.00	3667.05	-3641.48	-514.79	0.00	397305.57	644033.75	N 32 5 29.24 W 103 52 5.67	
	15400.00	90.00	179.97	11786.00	3766.84	-3741.48	-514.74	0.00	397205.58	644033.79	N 32 5 28.25 W 103 52 5.67	
	15500.00	90.00	179.97	11786.00	3866.63	-3841.48	-514.70	0.00	397105.59	644033.84	N 32 5 27.26 W 103 52 5.67	
	15600.00	90.00	179.97	11786.00	3966.42	-3941.48	-514.65	0.00	397005.60	644033.88	N 32 5 26.27 W 103 52 5.68	
	15700.00	90.00	179.97	11786.00	4066.21	-4041.48	-514.61	0.00	396905.60	644033.93	N 32 5 25.28 W 103 52 5.68	
	15800.00	90.00	179.97	11786.00	4166.00	-4141.48	-514.56	0.00	396805.61	644033.97	N 32 5 24.29 W 103 52 5.69	
	15900.00	90.00	179.97	11786.00	4265.79	-4241.48	-514.52	0.00	396705.62	644034.02	N 32 5 23.30 W 103 52 5.69	
	16000.00	90.00	179.97	11786.00	4365.58	-4341.48	-514.47	0.00	396605.62	644034.06	N 32 5 22.31 W 103 52 5.70	
	16100.00	90.00	179.97	11786.00	4465.37	-4441.48	-514.43	0.00	396505.63	644034.11	N 32 5 21.32 W 103 52 5.70	
	16200.00	90.00	179.97	11786.00	4565.16	-4541.48	-514.38	0.00	396405.64	644034.16	N 32 5 20.33 W 103 52 5.71	
	16300.00	90.00	179.97	11786.00	4664.95	-4641.48	-514.34	0.00	396305.64	644034.20	N 32 5 19.34 W 103 52 5.71	
	16400.00	90.00	179.97	11786.00	4764.74	-4741.48	-514.29	0.00	396205.65	644034.25	N 32 5 18.35 W 103 52 5.71	
	16500.00	90.00	179.97	11786.00	4864.53	-4841.48	-514.24	0.00	396105.66	644034.29	N 32 5 17.36 W 103 52 5.72	
	16600.00	90.00	179.97	11786.00	4964.32	-4941.48	-514.20	0.00	396005.66	644034.34	N 32 5 16.37 W 103 52 5.72	
	16700.00	90.00	179.97	11786.00	5064.11	-5041.48	-514.15	0.00	395905.67	644034.38	N 32 5 15.38 W 103 52 5.73	
	16800.00	90.00	179.97	11786.00	5163.90	-5141.48	-514.11	0.00	395805.68	644034.43	N 32 5 14.40 W 103 52 5.73	
	16900.00	90.00	179.97	11786.00	5263.69	-5241.48	-514.06	0.00	395705.69	644034.47	N 32 5 13.41 W 103 52 5.74	
	17000.00	90.00	179.97	11786.00	5363.48	-5341.48	-514.02	0.00	395605.69	644034.52	N 32 5 12.42 W 103 52 5.74	
	17100.00	90.00	179.97	11786.00	5463.27	-5441.48	-513.97	0.00	395505.70	644034.56	N 32 5 11.43 W 103 52 5.75	
	17200.00	90.00	179.97	11786.00	5563.06	-5541.48	-513.93	0.00	395405.71	644034.61	N 32 5 10.44 W 103 52 5.75	
	17300.00	90.00	179.97	11786.00	5662.85	-5641.48	-513.88	0.00	395305.71	644034.65	N 32 5 9.45 W 103 52 5.76	
	17400.00	90.00	179.97	11786.00	5762.64	-5741.48	-513.84	0.00	395205.72	644034.70	N 32 5 8.46 W 103 52 5.76	
	17500.00	90.00	179.97	11786.00	5862.43	-5841.48	-513.79	0.00	395105.73	644034.74	N 32 5 7.47 W 103 52 5.76	
	17600.00	90.00	179.97	11786.00	5962.22	-5941.48	-513.75	0.00	395005.73	644034.79	N 32 5 6.48 W 103 52 5.77	
	17700.00	90.00	179.97	11786.00	6062.01	-6041.48	-513.70	0.00	394905.74	644034.83	N 32 5 5.49 W 103 52 5.77	
	17800.00	90.00	179.97	11786.00	6161.80	-6141.48	-513.66	0.00	394805.75	644034.88	N 32 5 4.50 W 103 52 5.78	
	17900.00	90.00	179.97	11786.00	6261.59	-6241.48	-513.61	0.00	394705.75	644034.92	N 32 5 3.51 W 103 52 5.78	
	18000.00	90.00	179.97	11786.00	6361.38	-6341.48	-513.57	0.00	394605.76	644034.97	N 32 5 2.52 W 103 52 5.79	
	18100.00	90.00	179.97	11786.00	6461.17	-6441.48	-513.52	0.00	394505.77	644035.01	N 32 5 1.53 W 103 52 5.79	
	18200.00	90.00	179.97	11786.00	6560.96	-6541.48	-513.48	0.00	394405.78	644035.06	N 32 5 0.54 W 103 52 5.80	
	18300.00	90.00	179.97	11786.00	6660.75	-6641.48	-513.43	0.00	394305.78	644035.11	N 32 4 59.55 W 103 52 5.80	
	18400.00	90.00	179.97	11786.00	6760.54	-6741.48	-513.38	0.00	394205.79	644035.15	N 32 4 58.56 W 103 52 5.80	
	18500.00	90.00	179.97	11786.00	6860.33	-6841.48	-513.34	0.00	394105.80	644035.20	N 32 4 57.57 W 103 52 5.81	
	18600.00	90.00	179.97	11786.00	6960.12	-6941.48	-513.29	0.00	394005.80	644035.24	N 32 4 56.58 W 103 52 5.81	
	18700.00	90.00	179.97	11786.00	7059.91	-7041.48	-513.25	0.00	393905.81	644035.29	N 32 4 55.59 W 103 52 5.82	
	18800.00	90.00	179.97	11786.00	7159.70	-7141.48	-513.20	0.00	393805.82	644035.33	N 32 4 54.60 W 103 52 5.82	
	18900.00	90.00	179.97	11786.00	7259.49	-7241.48	-513.16	0.00	393705.82	644035.38	N 32 4 53.61 W 103 52 5.83	
	19000.00	90.00	179.97	11786.00	7359.28	-7341.48	-513.11	0.00	393605.83	644035.42	N 32 4 52.62 W 103 52 5.83	
	19100.00	90.00	179.97	11786.00	7459.07	-7441.48	-513.07	0.00	393505.84	644035.47	N 32 4 51.64 W 103 52 5.84	
	19200.00	90.00	179.97	11786.00	7558.86	-7541.48	-513.02	0.00	393405.84	644035.51	N 32 4 50.65 W 103 52 5.84	
	19300.00	90.00	179.97	11786.00	7658.65	-7641.48	-512.98	0.00	393305.85	644035.56	N 32 4 49.66 W 103 52 5.84	
	19400.00	90.00	179.97	11786.00	7758.44	-7741.48	-512.93	0.00	393205.86	644035.60	N 32 4 48.67 W 103 52 5.85	
	19500.00	90.00	179.97	11786.00	7858.23	-7841.48	-512.89	0.00	393105.87	644035.65	N 32 4 47.68 W 103 52 5.85	
	19600.00	90.00	179.97	11786.00	7958.02	-7941.48	-512.84	0.00	393005.87	644035.69	N 32 4 46.69 W 103 52 5.86	
XTO Poker Lake Unit 27 BD 165H - BHL	19613.97	90.00	179.97	11786.00	7971.96	-7955.45	-512.84	0.00	392991.90	644035.70	N 32 4 46.55 W 103 52 5.86	

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	1/100.000	14.750	11.750		NAL_MWD_1.0_DEG-Depth Only	XTO Poker Lake Unit 27 BD 165H / XTO Poker Lake Unit 27 BD 165H Rev1 LP 15Jun20
	1	23.000	1250.000	1/100.000	14.750	11.750		NAL_MWD_1.0_DEG	XTO Poker Lake Unit 27 BD 165H / XTO Poker Lake Unit 27 BD
	1	1250.000	11174.000	1/100.000	9.875	7.625		NAL_MWD_1.0_DEG	XTO Poker Lake Unit 27 BD 165H / XTO Poker Lake Unit 27 BD
	1	11174.000	19613.973	1/100.000	6.750	5.500		NAL_MWD_1.0_DEG	XTO Poker Lake Unit 27 BD 165H / XTO Poker Lake Unit 27 BD

**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 (OOGO) No. 2, 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. OOGO No. 2, Section I.D.2 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 OOGO No. 2, Section IV., XTO Energy submits this request for the variance.

**Supporting Documentation**

OOGO No. 2 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 OOGO No. 2 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. OOGO No. 2 recognizes 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.

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API STANDARD 53

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

Component to be Pressure Tested	Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Pressure Test—High Pressure <sup>ac</sup>	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer <sup>b</sup>	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 <sup>bd</sup>	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 <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes <sup>e</sup>	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	

<sup>a</sup> 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.

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

<sup>c</sup> 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.

<sup>d</sup> 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.

<sup>e</sup> 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 OOGO No. 2 and 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 OOGO No. 2 (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 OOGO No.2.

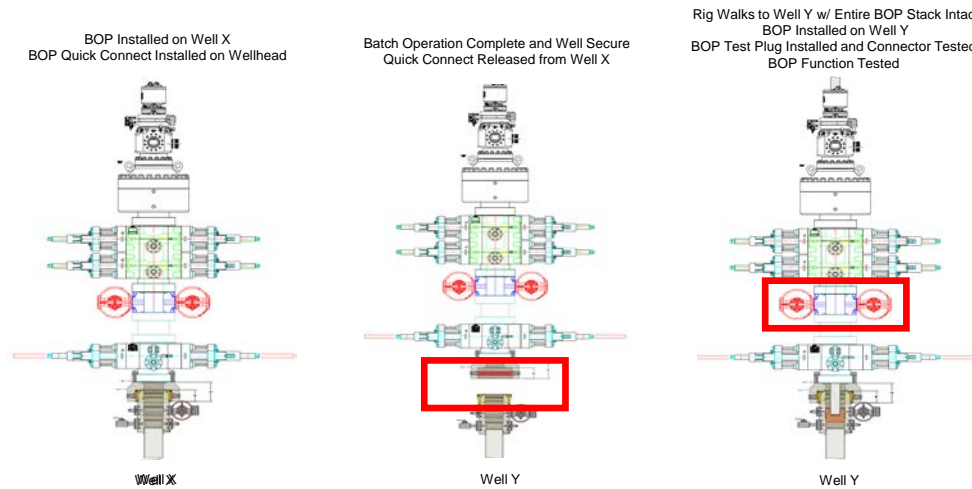
### **Procedures**

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.

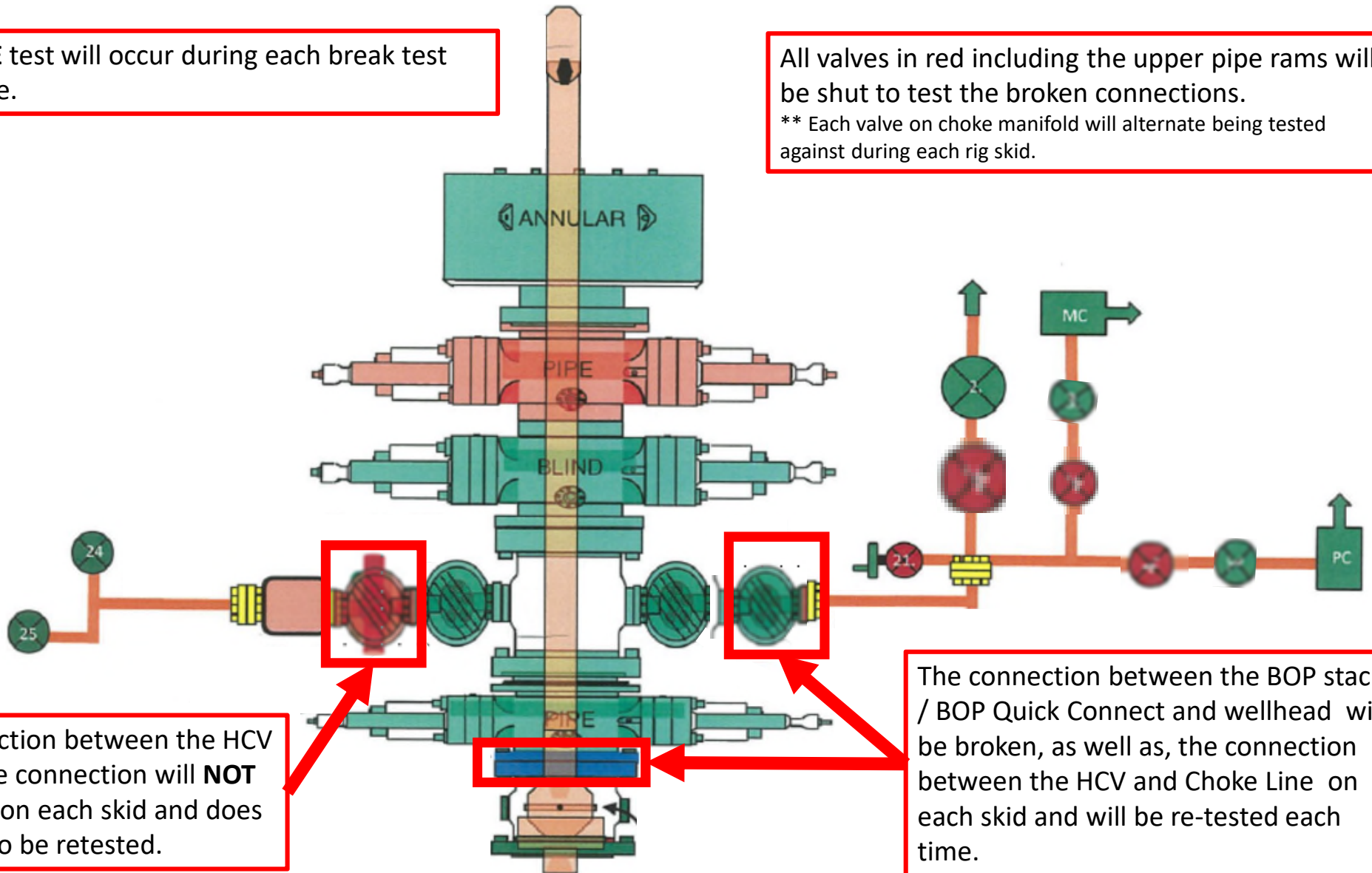
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

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.

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
  - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
  - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
  - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped up and tested on the wellhead before drilling operations resume on each well.
  - a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
  - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.