### UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0137

Di	UREAU OF LAND MANAGEN	/ENT	Expire	s: January 31, 2018
SUNDRY	5. Lease Serial No NMLC06170			
Do not use thi abandoned wel	6. If Indian, Allott			
SUBMIT IN	TRIPLICATE - Other instruc	tions on page 2	7. If Unit or CA/A 891000303X	greement, Name and/or No.
1. Type of Well			8. Well Name and	No. UNIT 17 TWR 106H
Oil Well Gas Well Oth  Name of Operator		LY KARDOS	9. API Well No.	ONIT IT TWK TOOL
XTO PERMIAN OPERATING	LLC E-Mail: kelly_kardos@:		30-015-4665	5-00-X1
3a. Address 6401 HOLIDAY HILL ROAD B MIDLAND, TX 79707		Phone No. (include area code) 1: 432-620-4374		or Exploratory Area GE-WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., T.	., R., M., or Survey Description)		11. County or Pari	ish, State
Sec 20 T24S R31E NWNE 40 32.209969 N Lat, 103.796509			EDDY COUN	NTY, NM
12. CHECK THE AF	PPROPRIATE BOX(ES) TO	INDICATE NATURE OF	F NOTICE, REPORT, OR C	OTHER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
<b>—</b> N. d. G	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	Water Shut-Off
■ Notice of Intent	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	□ Casing Repair	■ New Construction	☐ Recomplete	<b>⊠</b> Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Abandon	□ Temporarily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug Back	■ Water Disposal	12
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fix XTO Permian Operating, LLC Change the casing/cement de	ally or recomplete horizontally, give it will be performed or provide the I operations. If the operation results bandonment Notices must be filed or inal inspection.  requests permission to make usign per the attached drilling	subsurface locations and measur Bond No. on file with BLM/BIA in a multiple completion or recor- ally after all requirements, including the following changes to the	red and true vertical depths of all person in a new interval, a Form ng reclamation, have been complet	ertinent markers and zones.  t be filed within 30 days 3160-4 must be filed once
XTO requests the following va	riances:			
Batch drill this well if necessar the well is cemented properly annulus, and the installation o to skid the rig to drill the remai all completed, XTO will begin	and the well is static. With flo f a 10K TA cap as per GE red ining wells on the pad. Once	ats holding, no pressure ocommendations, XTO will obsurface and intermediate so each of the wells.	n the csg contact the BLM trings are	
		Acce	epted 05/15/2020 - KMS NM	OCD
	Electronic Submission #5131 For XTO PERMIAN ( mmitted to AFMSS for procession	OPERATING LLC, sent to thing by PRISCILLA PEREZ on	ne Carlsbad n 04/29/2020 (20PP2492SE)	
Name(Printed/Typed) KELLY KA	ARDOS	Title REGUL/	ATORY COORDINATOR	
Signature (Electronic S	Submission)	Date 04/28/20	)20	
	THIS SPACE FOR I	FEDERAL OR STATE (	OFFICE USE	
Approved By JENNIFER SANCHE	=Z_ <u> </u>	TitlePETROLE	JM ENGINEER	Date 05/14/2020
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conduction of t	d. Approval of this notice does not nitable title to those rights in the sub			

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.

# PECOS DISTRICT DRILLING DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating, LLC.
LEASE NO.: NMLC-0061705B
WELL NAME & NO.: Poker Lake Unit 17 TWR 106H
SURFACE HOLE FOOTAGE: 0040' FNL & 1613' FEL

BOTTOM HOLE FOOTAGE | 0220' FSL & 1650' FEL Sec. 29, T. 24 S., R 31 E.

LOCATION: Section 20, T. 24 S., R 31 E., NMPM

**COUNTY:** | **Eddy County, New Mexico** 

COA

H2S	• Yes	C No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	• Low	© Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	© Multibowl	O Both
Other	☐4 String Area	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	□ СОМ	✓ Unit

### Offline cementing is NOT approved.

Possibility of water flows in the Salado and Castile.

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

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

#### A. HYDROGEN SULFIDE

1. 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 **867**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:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

#### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. 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 **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 OOGO2.III.A.2.i must be followed.

### **BOP Break Testing Variance**

- Shelll 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 intergrity 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 05142020

#### Poker Lake Unit 17 TWR 106H

Projected TD: 21918' MD / 11934' TVD

SHL: 65' FNL & 1613' FEL , Section 20, T24S, R31E

BHL: 220' FSL & 1650' FEL , Section 29, T24S, R31E

Eddy County, NM

#### **Casing Design**

The surface fresh water sands will be protected by setting 11-3/4" casing @ 867' (100' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 11009' 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 5-1/2" semi-flush 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' - 867'	11-3/4"	54	BTC	J-55	New	1.23	5.28	18.16
9-7-8"	0' – 11009'	7-5/8"	29.7	BTC	HCL-80	New	1.57	1.96	2.09
6-3/4"	0' – 10909'	5-1/2"	23	Freedom	P-110	New	1.21	2.07	2.03
6-3/4"	10909' - 21918'	5-1/2"	23	TCSF - semi flush	P-110	New	1.21	2.07	1.72

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

5-1/2" 23 ppf casing will be run from surface to 10,763' and crossed over to 5-1/2" 23 ppf semi-flush casing from 10,763' to TD.

Request to use 5" BTC Float equipment for the the production casing

#### WELLHEAD:

Permanent Wellhead – GE RSH Multibowl System

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

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: 260 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:

ECP/DV Tool to be set at 4297'

1st Stage

Lead: 1310 sxs Halcem - Class C (mixed at 11.0 ppg, 1.87 ft3/sx, 15.10 gal/sx water)
Tail: 310 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

Lead: 750 sxs Halcem - Class C (mixed at 11.0 ppg, 1.88 ft3/sx, 10.13 gal/sx water)
Tail: 320 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

#### **Production Casing:**

Lead: 20 sxs VersaCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)
Tail: 750 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' - 867'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
867' - 11009'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.6-9.8	30-32	NC
11009' to 21918'	6-3/4"	Cut Brine / WBM / OBM	10.8-11.8	32-36	NC

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

XTO Energy Inc.
Poker Lake Unit 17 TWR 106H
Projected TD: 21918' MD / 11934' TVD
SHL: 65' FNL & 1613' FEL , Section 20, T24S, R31E
BHL: 220' FSL & 1650' FEL , Section 29, T24S, R31E
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	557'	Water
Top of Salt	967'	Water
Base of Salt	4077'	Water
Delaware	4297'	Water
Bone Spring	8157'	Water
1st Bone Spring Ss	9117'	Water/Oil/Gas
2nd Bone Spring Ss	9917'	Water/Oil/Gas
3rd Bone Spring Ss	11097'	Water/Oil/Gas
Wolfcamp	11497'	Water/Oil/Gas
Wolfcamp A	11707'	Water/Oil/Gas
Target/Land Curve	11934'	Water/Oil/Gas

<sup>\*\*\*</sup> Hydrocarbons @ Brushy Canyon

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 @ 867' (100' above the salt) and circulating cement back to surface. The 7-5/8" intermediate casing will be set at 11009' 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 5-1/2" semi-flush 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' – 867'	11-3/4"	54	втс	J-55	New	1.23	5.28	18.16
9-7-8"	0' – 11009'	7-5/8"	29.7	BTC	HCL-80	New	1.57	1.96	2.09
6-3/4"	0' – 10909'	5-1/2"	23	Freedom	P-110	New	1.21	2.07	2.03
6-3/4"	10909' - 21918'	5-1/2"	23	TCSF - semi flush	P-110	New	1.21	2.07	1.72

- $\boldsymbol{\cdot}$  XTO requests to not utilize centralizers in the curve and lateral
- ·7-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- $\cdot$  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
- 5-1/2" 23 ppf casing will be run from surface to 10,909' and crossed over to 5-1/2" 23 ppf semi-flush casing from 10,909' to TD.

  Request 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 11-3/4" Hanger
- 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

<sup>\*\*\*</sup> Groundwater depth 40' (per NM State Engineers Office).

#### 4. Cement Program

#### Surface Casing: 11-3/4", 54 New J-55, BTC casing to be set at +/- 867'

Lead: 260 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 +/- 11009' ECP/DV Tool to be set at 4297'

1st Stage

Lead: 1310 sxs Halcem - Class C (mixed at 11.0 ppg, 1.87 ft3/sx, 15.10 gal/sx water)

Tail: 310 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

2nd Stage

Lead: 750 sxs Halcem - Class C (mixed at 11.0 ppg, 1.88 ft3/sx, 10.13 gal/sx water)

Tail: 320 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

Production Casing: 5-1/2", 23 New P-110, TCSF - semi flush casing to be set at +/- 21918'

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

Tail: 750 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 7.20 gal/sx water)

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

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 5M 3-Ram BOP. MASP should not exceed 4387 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 nippling up on the 11-3/4", 5M bradenhead and flange, the BOP test will be limited to 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 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 company 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 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 hale continued in the nad will be the deepest. All of the remaining hale continue will be the came

2. The first intermediate hole section unlied 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 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' - 867'	14-3/4"	FW / Native	8.4-8.8	35-40	NC
867' - 11009'	9-7/8"	Brine / Cut Brine / Direct Emuslion	8.6-9.8	30-32	NC
11009' to 21918'	6-3/4"	Cut Brine / WBM / OBM	10.8-11.8	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.

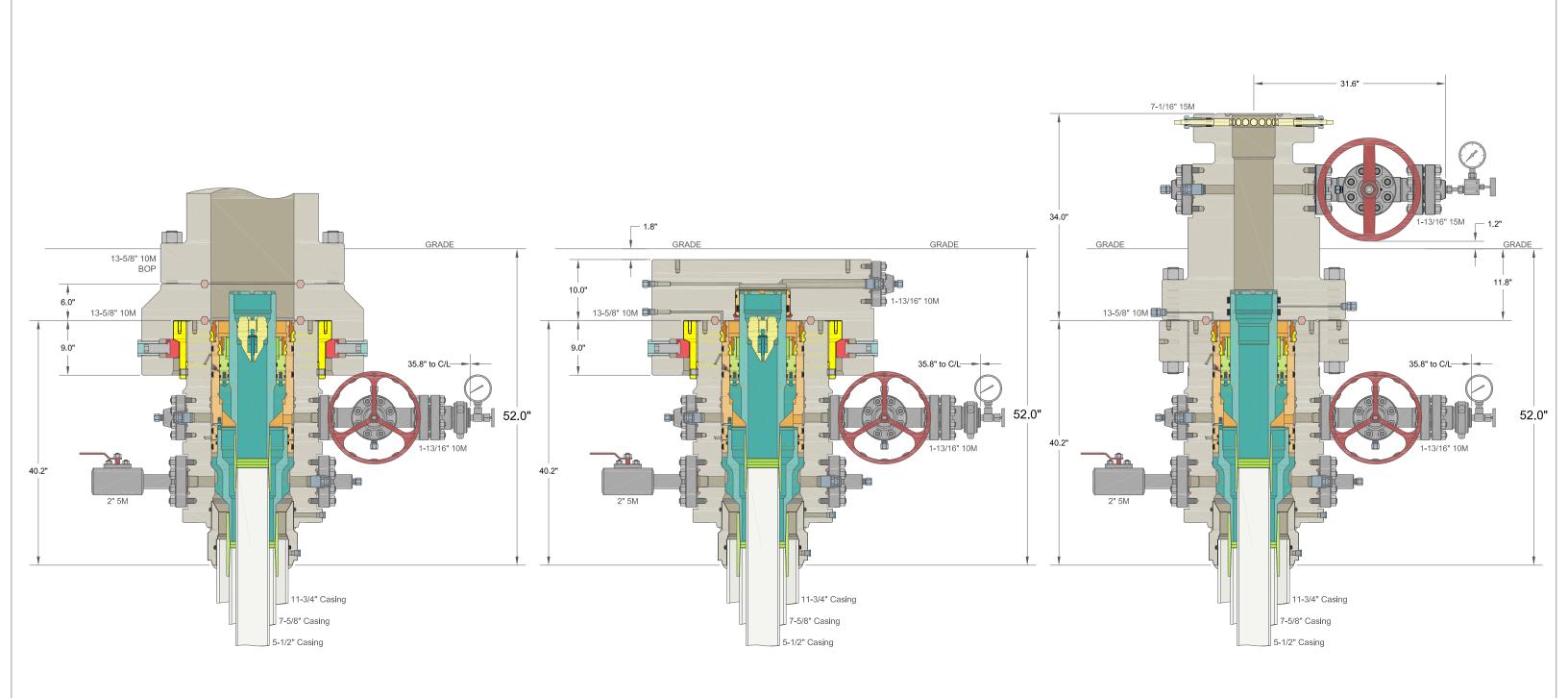
Open hole logging will not be done on this well.

#### 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 7012 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.



DRILLING SKID COMPLETION

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 Well	head System	DRAWN	DLE	09DEC19
		APPRV		
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB	•		0050	00004
And 7-5/8" & 5-1/2" Fluted Mandrel Casing Ha	And 7-5/8" & 5-1/2" Fluted Mandrel Casing Hangers		o. <b>ODE0</b> 0	03261

INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.





REFERI	REFERENCE WELLPATH IDENTIFICATION							
Operator	XTO Energy Inc.	Well	PLU 17 TWR #106H					
Field	Wolfcamp (Eddy Co., NM)	API/Legal						
Facility	PLU 17 TWR Pad 2	Wellbore	PLU 17 TWR #106H					
Slot	PLU 17 TWR #106H							

REPORT SETUP INFORMATION								
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 6.0					
North Reference	Grid	User	Deergai					
Scale	0.999941	Report Generated	4/22/2020 at 2:10:20 PM					
Convergence at slot	0.29° East	Database	WA-Houston					

WELLPATH LOCATION								
	Local coordinates		Grid co	ordinates	Geographic coordinates			
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude		
Slot Location	-34.90	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W		
Facility Reference Pt			666183.00	440486.80	32°12'35.5447"N	103°47'45.6933"W		
Field Reference Pt			152400.30	0.00	30°59'42.8458"N	105°26'33.6593"W		

WELLPATH DATUM							
Calculation method	Minimum curvature	H&P 549 (RKB) to Facility Vertical Datum	3549.00ft				
Horizontal Reference Pt	Slot	H&P 549 (RKB) to Mean Sea Level	3549.00ft				
Vertical Reference Pt	H&P 549 (RKB)	H&P 549 (RKB) to Ground Level at Slot (PLU 17 TWR #106H)	30.00ft				
MD Reference Pt	H&P 549 (RKB)	Section Origin	N 0.00, E 0.00 ft				
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.85°				



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REFERE	REFERENCE WELLPATH IDENTIFICATION											
Operator	XTO Energy Inc.	Well	PLU 17 TWR #106H									
Field	Wolfcamp (Eddy Co., NM)	API/Legal										
Facility	PLU 17 TWR Pad 2	Wellbore	PLU 17 TWR #106H									
Slot	PLU 17 TWR #106H											

-													
WELLP	PATH DATA (2:	28 stat	tions)	† = iı	nterp	olated. ± = e	xtrapolated	station					
MD	Inclination Azimuth	TVD	Vert Sect				Grid North	Latitude	Longitude	DLS	Build Rate	Turn Rate	Comments
[ft]	[°] [°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]		J	[°/100ft]	[°/100ft]	[°/100ft]	
0.00	0.000 217.230	0.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
30.00	0.000 217.230	30.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	Tie On
130.00†		130.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
230.00†		230.00	0.00			666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
330.00†	0.000 217.230	330.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
430.00†	0.000 217.230	430.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
530.00†		530.00		0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
630.00†		630.00		0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
730.00†		730.00		0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
830.00†		830.00	0.00			666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
930.00†		930.00		0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1030.00†			0.00	0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1130.00 <del>†</del>				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1230.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1330.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1430.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1530.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1630.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1730.00†	·		0.00			666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1830.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
1930.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
2030.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
2130.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
2230.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
2330.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
2430.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
2530.00†				0.00		666183.00	440451.90 440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
2630.00†			0.00			666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
2730.00† 2830.00†				0.00		666183.00 666183.00		32°12'35.1993"N 32°12'35.1993"N	103°47'45.6953"W 103°47'45.6953"W	0.00	0.00	0.00	
2930.00†			0.00			666183.00	440451.90	32°12'35.1993 N	103°47'45.6953"W	0.00	0.00	0.00	
3030.00				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
3130.00				0.00	<del></del>	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
3230.00				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
3330.00†				0.00		666183.00		32°12'35.1993'N	103°47'45.6953"W	0.00	0.00	0.00	
3430.00						666183.00		32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
3530.00				0.00		666183.00	440451.90	32°12'35.1993'N	103°47'45.6953"W	0.00	0.00	0.00	
3630.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
3730.00				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
3830.00†				0.00		666183.00		32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
3930.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
4030.00				0.00	-	666183.00	440451.90	32°12'35.1993'N	103°47'45.6953"W	0.00	0.00	0.00	
4130.00†				0.00		666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
4230.00†				0.00	<del></del>	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00	
4330.00†						J	440451.90		103°47'45.6953"W	0.00	0.00	0.00	
	0.000 211.200		0.00	3.00	J.55			12 .2 03.1000 11		5.00	0.00	0.00	



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REFERE	REFERENCE WELLPATH IDENTIFICATION											
Operator	XTO Energy Inc.	Well	PLU 17 TWR #106H									
Field	Wolfcamp (Eddy Co., NM)	API/Legal										
Facility	PLU 17 TWR Pad 2	Wellbore	PLU 17 TWR #106H									
Slot	PLU 17 TWR #106H											

WELLP	PATH DATA (2	228 st	ations	) +=i	nterpo	lated. ± = e	xtrapolated	station				
	Inclination Azimuth	TVD [ft]	Vert Sect		East [ft]	Grid East [US ft]	•	Latitude	Longitude	DLS [°/100ft]		Turn Rate Comments [°/100ft]
4430.00†	0.000 217.230	4430.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
4530.00†	0.000 217.230	4530.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
4630.00†	0.000 217.230	4630.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
4730.00†	0.000 217.230	4730.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
4830.00†	0.000 217.230	4830.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
4930.00†	0.000 217.230	4930.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
5030.00†	0.000 217.230	5030.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
5130.00†	0.000 217.230	5130.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
5230.00†	0.000 217.230	5230.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
5330.00†	0.000 217.230	5330.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
5430.00†	0.000 217.230	5430.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
5530.00†	0.000 217.230	5530.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
5630.00†	0.000 217.230	5630.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00
5700.00	0.000 217.230	5700.00	0.00	0.00	0.00	666183.00	440451.90	32°12'35.1993"N	103°47'45.6953"W	0.00	0.00	0.00 Begin Nudge
5730.00†	0.300 217.230	5730.00	0.06	-0.06	-0.05	666182.95	440451.84	32°12'35.1987"N	103°47'45.6959"W	1.00	1.00	0.00
5830.00†	1.300 217.230	5829.99		-1.17	-0.89	666182.11	440450.73	32°12'35.1877"N	103°47'45.7058"W	1.00	1.00	0.00
5930.00†	2.300 217.230	5929.94		-3.68	-2.79	666180.21	440448.23	32°12'35.1631"N	103°47'45.7280"W	1.00	1.00	0.00
6030.00†	3.300 217.230	6029.82	7.55	-7.56	-5.75	666177.25	440444.34	32°12'35.1247"N	103°47'45.7627"W	1.00	1.00	0.00
6130.00†	4.300 217.230	6129.60	12.82	-12.84	-9.76	666173.24	440439.06	32°12'35.0727"N	103°47'45.8096"W	1.00	1.00	0.00
6170.00	4.700 217.230	6169.47	15.31	-15.34	-11.66	666171.34	440436.56	32°12'35.0481"N	103°47'45.8319"W	1.00	1.00	0.00 End of Build
6230.00†	4.700 217.230	6229.27	19.22	-19.25	-14.63	666168.37	440432.65	32°12'35.0095"N	103°47'45.8667"W	0.00	0.00	0.00
6330.00†	4.700 217.230	6328.94	25.73	-25.78	-19.59	666163.41	440426.12	32°12'34.9452"N	103°47'45.9248"W	0.00	0.00	0.00
6430.00†	4.700 217.230	6428.60	32.24	-32.30	-24.55	666158.46	440419.60	32°12'34.8809"N	103°47'45.9829"W	0.00	0.00	0.00
6486.37	4.700 217.230	6484.78	35.91	-35.98	-27.34	666155.66	440415.92	32°12'34.8446"N	103°47'46.0156"W	0.00	0.00	0.00 End of Hold
6530.00†	4.264 217.230	6528.28	38.62	-38.69	-29.40	666153.60	440413.21	32°12'34.8179"N	103°47'46.0398"W	1.00	-1.00	0.00
6630.00†	3.264 217.230	6628.06	43.83	-43.92	-33.37	666149.63	440407.98	32°12'34.7663"N	103°47'46.0863"W	1.00	-1.00	0.00
6730.00†	2.264 217.230	6727.94	47.66	-47.76	-36.29	666146.71	440404.14	32°12'34.7285"N	103°47'46.1205"W	1.00	-1.00	0.00
6830.00†	1.264 217.230	6827.89	50.11	-50.21	-38.15	666144.85	440401.69	32°12'34.7043"N	103°47'46.1423"W	1.00	-1.00	0.00
6930.00†	0.264 217.230	6927.88	51.17	-51.27	-38.96	666144.04	440400.63	32°12'34.6939"N	103°47'46.1517"W	1.00	-1.00	0.00
6956.37	0.000 179.630	6954.25	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	1.00	-1.00	0.00 Vertical
7030.00†	0.000 179.630	7027.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
7130.00†	0.000 179.630	7127.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
7230.00†	0.000 179.630	7227.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
7330.00†	0.000 179.630	7327.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
7430.00†	0.000 179.630	7427.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
7530.00†	0.000 179.630	7527.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
7630.00†	0.000 179.630	7627.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
7730.00†	0.000 179.630	7727.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
7830.00†	0.000 179.630		<del>_</del>			·	·		103°47'46.1522"W	0.00	0.00	0.00
7930.00†	0.000 179.630	7927.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
8030.00†	0.000 179.630	8027.88	51.22						103°47'46.1522"W	0.00	0.00	0.00
8130.00†	0.000 179.630	8127.88	51.22				440400.58		103°47'46.1522"W	0.00	0.00	0.00
8230.00†	0.000 179.630	8227.88	51.22				440400.58	J	103°47'46.1522"W	0.00	0.00	0.00
8330.00†	0.000 179.630	8327.88	51.22	-51.32	-39.00	666144.01	440400.58	32°12'34.6934"N	103°47'46.1522"W	0.00	0.00	0.00
8430.00†	0.000 179.630					·			103°47'46.1522"W	0.00	0.00	0.00



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REFER	REFERENCE WELLPATH IDENTIFICATION											
Operator	or XTO Energy Inc. Well PLU 17 TWR #106H											
Field	Wolfcamp (Eddy Co., NM)	API/Legal										
Facility	PLU 17 TWR Pad 2	Wellbore	PLU 17 TWR #106H									
Slot	PLU 17 TWR #106H											

MD	Inclination Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS	Build	Turn	Comments
[ft]	[°] [°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	Latitude	Longitude	[°/100ft]		Rate	Comments
530.00†	0.000 179.630	8527.88	51.22						03°47'46.1522"W	0.00	0.00	0.00	
630.00†	0.000 179.630	8627.88	51.22	-51.32	-39.00	666144.01	440400.58 32	°12'34.6934"N 1	03°47'46.1522"W	0.00	0.00	0.00	
730.00†	0.000 179.630	8727.88	51.22	-51.32	-39.00	666144.01	440400.58 32	°12'34.6934"N 1	03°47'46.1522"W	0.00	0.00	0.00	
830.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
930.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
030.00		9027.88	51.22						03°47'46.1522"W		0.00	0.00	
130.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
230.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
330.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
430.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
530.00†	0.000179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
730.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
330.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00+	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00†	0.000179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00†	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00+	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00+	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
730.00+	0.000179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00+	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00+	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
030.00+	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
130.00+	0.000179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00+	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	
30.00+	0.000 179.630		51.22						03°47'46.1522"W		0.00	0.00	2 1/22
363.16	0.000 179.630		51.22						03°47'46.1522"W		0.00		Curve KOP
30.00+	6.684 179.630		55.11						03°47'46.1521"W		10.00	0.00	
30.00+	16.684 179.630		75.34					<del> </del> _	03°47'46.1518"W		10.00	0.00	
30.00+	26.684 179.630		112.24						03°47'46.1511"W		10.00	0.00	
30.00+	36.684 179.630		164.70						03°47'46.1502"W		10.00	0.00	
30.00+	46.684 179.630		231.11 309.47						03°47'46.1491"W		10.00	0.00	
30.00 <del>†</del> 30.00†	56.684179.630 66.684179.630		397.40						03°47'46.1478"W 03°47'46.1463"W		10.00	0.00	
												0.00	
30.00†	76.684179.630 86.684179.630		492.21 591.03						03°47'46.1447"W 03°47'46.1430"W		10.00 10.00	0.00	
263.16	90.000179.630		624.17						03°47'46.1430 W		10.00		LP 359' past
263.16 330.00†	90.000179.630										0.00	0.00	LP 339 past
			691.01						03°47'46.1413"W		0.00	0.00	
130.00† 530.00†	90.000 179.630 90.000 179.630		791.01 891.01						03°47'46.1396"W		0.00	0.00	
									03°47'46.1379"W				
30.00 <del>†</del> 30.00†	90.000 179.630 90.000 179.630								03°47'46.1362"W		0.00	0.00	



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REFERE	REFERENCE WELLPATH IDENTIFICATION											
Operator	XTO Energy Inc.	Well	PLU 17 TWR #106H									
Field	Wolfcamp (Eddy Co., NM)	API/Legal										
Facility	PLU 17 TWR Pad 2	Wellbore	PLU 17 TWR #106H									
Slot	PLU 17 TWR #106H											

WELLP	ATH DATA (2	28 stat	tions)	† = inter	polate	d, ‡ = extra	polated sta	tion				
MD [ft]	Inclination Azimuth	TVD [ft]	Vert Sect	North	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude		Build Rate [°/100ft]	Turn Rate Comments [°/100ft]
12830.00+								32°12'23.4145"N	103°47'46.1328"W	0.00	0.00	0.00
12930.00†	90.000 179.630	11934.00	1291.01	-1291.09	-30.99	666152.01	439160.88	32°12'22.4250"N	103°47'46.1311"W	0.00	0.00	0.00
13030.00†									103°47'46.1294"W	0.00	0.00	0.00
13130.00†	90.000 179.630	11934.00	1491.01	-1491.09	-29.70	666153.30	438960.90	32°12'20.4459"N	103°47'46.1277"W	0.00	0.00	0.00
13230.00†									103°47'46.1260"W	0.00	0.00	0.00
13330.00†									103°47'46.1243"W	0.00	0.00	0.00
13430.00†									103°47'46.1226"W	0.00	0.00	0.00
13530.00†	<del></del>	·	<del></del>			·	·		103°47'46.1209"W	0.00	0.00	0.00
13630.00†									103°47'46.1192"W	0.00	0.00	0.00
13730.00†									103°47'46.1175"W	0.00	0.00	0.00
13830.00†						<del></del>	<del></del>		103°47'46.1158"W	0.00	0.00	0.00
13930.00†									103°47'46.1141"W	0.00	0.00	0.00
14030.00†									103°47'46.1124"W	0.00	0.00	0.00
14130.00†							/		103°47'46.1107"W	0.00	0.00	0.00
14230.00†									103°47'46.1090"W	0.00	0.00	0.00
14330.00†	90.000 179.630								103°47'46.1073"W	0.00	0.00	0.00
14430.00†									103°47'46.1056"W	0.00	0.00	0.00
14530.00†	90.000 179.630	<del></del>			<del>/</del>	t <del></del>	t	/ <del></del>	103°47'46.1039"W	0.00	0.00	0.00
14630.00†	90.000 179.630								103°47'46.1022"W	0.00	0.00	0.00
14730.00†	90.000 179.630								103°47'46.1005"W	0.00	0.00	0.00
14830.00†	90.000 179.630						<del>,</del>		103°47'46.0988"W	0.00	0.00	0.00
14930.00†		\			<del>}</del>				103°47'46.0971"W	0.00	0.00	0.00
15030.00†	90.000 179.630								103°47'46.0954"W	0.00	0.00	0.00
15130.00†		<del></del>		<del></del>					103°47'46.0937"W	0.00	0.00	0.00
15230.00†									103°47'46.0920"W	0.00	0.00	0.00
15330.00†									103°47'46.0903"W	0.00	0.00	0.00
15430.00†									103°47'46.0886"W	0.00	0.00	0.00
15530.00†									103°47'46.0869"W	0.00	0.00	0.00
15630.00†									103°47'46.0852"W	0.00	0.00	0.00
15730.00†									103°47'46.0835"W	0.00	0.00	0.00
15830.00†									103°47'46.0818"W	0.00	0.00	0.00
15930.00†		<del></del>	<del></del>						103°47'46.0801"W	0.00	0.00	0.00
16030.00†									103°47'46.0784"W	0.00	0.00	0.00
16130.00†									103°47'46.0767"W	0.00	0.00	0.00
16230.00†	90.000 179.630								103°47'46.0750"W	0.00	0.00	0.00
16330.00†	90.000 179.630								103°47'46.0733"W	0.00	0.00	0.00
16430.00†	90.000 179.630		<del>                                     </del>		_				103°47'46.0716"W	0.00	0.00	0.00
16530.00†	90.000 179.630								103°47'46.0699"W	0.00	0.00	0.00
16630.00†	90.000 179.630	<del></del>							103°47'46.0682"W	0.00	0.00	0.00
16730.00†	90.000 179.630								103°47'46.0665"W	0.00		0.00
16830.00†	90.000 179.630	<del></del>	<del></del>			<del></del>	<del></del>		103°47'46.0648"W	0.00	0.00	0.00
16930.00+	90.000 179.630								103°47'46.0631"W	0.00	0.00	0.00
17030.00+	90.000 179.630	<del></del>	<del></del>						103°47'46.0614"W	0.00	0.00	0.00
17130.00†	90.000 179.630								103°47'46.0597"W	0.00	0.00	0.00
17230.00†	90.000 179.630	11934.00	15590.98	J-5591.00	-3.22	1000179.78	1434861.24	32 1139.8744"N	103°47'46.0580"W	0.00	0.00	0.00



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REFERI	REFERENCE WELLPATH IDENTIFICATION											
Operator	XTO Energy Inc.	Well	PLU 17 TWR #106H									
Field	Wolfcamp (Eddy Co., NM)	API/Legal										
Facility	PLU 17 TWR Pad 2	Wellbore	PLU 17 TWR #106H									
Slot	PLU 17 TWR #106H											

						<del></del>	<u> </u>						
WELLD	ATH DATA (2	28 stat	ions)	+ = interne	lated	+ = ovtran	olated stati	on					
$\overline{}$	Inclination Azimuth	TVD	Vert Sect	North		•			Latitude	Lamaituda	DLC	Duild Data	Turn Rate Comments
MD [ft]		[ft]	[ft]	[ft]	East [ft]	Grid East [US ft]	[US ft]		Latitude	Longitude		[°/100ft]	[°/100ft]
17330.00 <del>1</del>	90.000 179.630		5690.98					32°1′	1'38 8848"N	103°47'46.0563"W	0.00	0.00	0.00
17430.001	90.000 179.630		5790.98							103°47'46.0546"W	0.00	0.00	0.00
17530.001	90.000 179.630		5890.97							103°47'46.0529"W	0.00	0.00	0.00
17630.001	90.000 179.630		5990.97							103°47'46.0512"W	0.00	0.00	0.00
17730.001	90.000 179.630		6090.97	-6090.99						103°47'46.0495"W	0.00	0.00	0.00
17830.00†	90.000 179.630		6190.97	-6190.99						103°47'46.0478"W	0.00	0.00	0.00
17930.001	90.000 179.630		6290.97	-6290.99						103°47'46.0461"W	0.00	0.00	0.00
18030.001	90.000 179.630		6390.97	-6390.99						103°47'46.0444"W	0.00	0.00	0.00
18130.00†	90.000 179.630		6490.97	-6490.99						103°47'46.0427"W	0.00	0.00	0.00
18230.001	90.000 179.630		6590.97	-6590.98						103°47'46.0409"W	0.00	0.00	0.00
18330.001	90.000 179.630		6690.97	-6690.98						103°47'46.0392"W	0.00	0.00	0.00
18430.001	90.000 179.630		6790.97	-6790.98						103°47'46.0375"W	0.00	0.00	0.00
18530.00†	90.000 179.630		6890.97	-6890.98						103°47'46.0373 W	0.00	0.00	0.00
18630.00†	90.000 179.630		6990.97	-6990.98						103°47'46.0336 W	0.00	0.00	0.00
18730.001	90.000 179.630		7090.97	-7090.97						103°47'46.0341'W	0.00	0.00	0.00
18830.00†	90.000 179.630		7190.97	-7190.97						103°47'46.0324 W	0.00	0.00	0.00
18930.00	90.000 179.630		7290.96	-7290.97						103°47'46.0290"W	0.00	0.00	0.00
19030.001	90.000 179.630		7390.96	-7390.97						103°47'46.0290 W	0.00	0.00	0.00
19130.00†	90.000 179.630		7490.96	-7490.97							0.00	0.00	0.00
										103°47'46.0256"W	0.00	0.00	0.00
19230.00†	90.000 179.630		7590.96	-7590.96						103°47'46.0239"W	0.00		
19330.00†	90.000 179.630		7690.96							103°47'46.0222"W		0.00	0.00
19430.00†	90.000 179.630		7790.96							103°47'46.0205"W	0.00	0.00	0.00
19530.00†	90.000 179.630		7890.96							103°47'46.0188"W	0.00	0.00	0.00
19630.00†	90.000 179.630		7990.96							103°47'46.0171"W	0.00	0.00	0.00
19730.00†	90.000 179.630		8090.96					=		103°47'46.0154"W	0.00	0.00	0.00
19830.00†	90.000 179.630		8190.96			<del></del>		=		103°47'46.0137"W	0.00	0.00	0.00
19930.00†	90.000 179.630		8290.96							103°47'46.0120"W	0.00	0.00	0.00
20030.00†	90.000 179.630		8390.96							103°47'46.0103"W	0.00	0.00	0.00
20130.00†	90.000 179.630		8490.96							103°47'46.0086"W	0.00	0.00	0.00
20230.00†	90.000 179.630		8590.96					=		103°47'46.0069"W	0.00	0.00	0.00
20330.00†	90.000 179.630		8690.95				431761.49			103°47'46.0052"W	0.00	0.00	0.00
20430.00†	90.000 179.630		8790.95				431661.50			103°47'46.0035"W	0.00	0.00	0.00
20530.00†	90.000 179.630		8890.95			666201.09				103°47'46.0018"W	0.00	0.00	0.00
20630.00†	90.000 179.630		8990.95				431461.52			103°47'46.0001"W	0.00	0.00	0.00
20730.00†	90.000 179.630		9090.95				431361.52			103°47'45.9984"W	0.00	0.00	0.00
20830.00†	90.000 179.630		9190.95				431261.53			103°47'45.9967"W	0.00	0.00	0.00
20930.00†	90.000 179.630		9290.95				431161.54	-		103°47'45.9950"W	0.00	0.00	0.00
21030.00†	90.000 179.630		9390.95				431061.55			103°47'45.9933"W	0.00	0.00	0.00
21130.00†	90.000 179.630		9490.95				430961.56			103°47'45.9916"W	0.00	0.00	0.00
21230.00†	90.000 179.630		9590.95			666205.61				103°47'45.9899"W	0.00	0.00	0.00
21330.00†	90.000 179.630		9690.95							103°47'45.9882"W	0.00	0.00	0.00
21430.00†	90.000 179.630		9790.95							103°47'45.9865"W	0.00	0.00	0.00
21530.00†	90.000 179.630		9890.95			/				103°47'45.9848"W	0.00	0.00	0.00
21630.00†	90.000 179.630		9990.94			<del>/</del>				103°47'45.9831"W	0.00	0.00	0.00
21730.00	90.000 179.630	11934.00	10090.94	-10090.91	25.84	666208.84	430361.61	32°10	0'55.3446"N	103°47'45.9814"W	0.00	0.00	0.00



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REFERE	REFERENCE WELLPATH IDENTIFICATION											
Operator	XTO Energy Inc.	Well	PLU 17 TWR #106H									
Field	Wolfcamp (Eddy Co., NM)	API/Legal										
Facility	PLU 17 TWR Pad 2	Wellbore	PLU 17 TWR #106H									
Slot	PLU 17 TWR #106H											

WELLP	WELLPATH DATA (228 stations) †= interpolated, ‡ = extrapolated station												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	<b>Grid North</b>	Latitude	Longitude	DLS	Build	Turn Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]		_	[°/100ft]	Rate	Rate
												[°/100ft][	°/100ft]
21807.81	90.000	179.630	11934.00	10168.76	-10168.72	26.34	666209.34	430283.80	32°10'54.5746"N	103°47'45.9800"W	0.00	0.00	0.00 LTP (330' FSL)
21830.00	90.000	179.630	11934.00	10190.94	-10190.91	26.48	666209.48	430261.62	32°10'54.3550"N	103°47'45.9797"W	0.00	0.00	0.00
21917.82	90.000	179.630	11934.00	10278.77	-10278.73	27.05	666210.05	430173.80	32°10'53.4860"N	103°47'45.9782"W	0.00	0.00	0.00PBHI (200' FSL)

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PLU 17 TWR #106H BHL	N/A 2D Re	11934.00 ectangle 965	-10278.73 4.66 x 50.	26.80	666209.80	430173.80	32°10'53.4860"N	103°47'45.9811"W	rectangle
PLU 17 TWR #106H FTP	N/A	11934.00	-265.22	-35.30	666147.70	440186.70	32°12'32.5767"N	103°47'46.1216"W	point
PLU 17 TWR #106H LTP	N/A	11934.00	-10168.72	26.10	666209.10	430283.80	32°10'54.5746"N	103°47'45.9828"W	point

SURVEY PR	ROGRAM -	Ref Wellbore: PLU 17 TWR #106H	Ref Wellpath: PLU 17 TWR #106H Permit Plan	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	11363.16	BH NaviTrak (2019) (Standard)		PLU 17 TWR #106H
11363.16	21917.82	OWSG MWD rev2 + IFR1 + Multi-Station C	orrection	PLU 17 TWR #106H

#### Additional data for EC transaction #513150 that would not fit on the form

#### 32. Additional remarks, continued

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 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 prior to drilling the production hole.

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

Attachments: Casing/Cement Design Directional Plan

#### Revisions to Operator-Submitted EC Data for Sundry Notice #513150

**Operator Submitted BLM Revised (AFMSS)** 

APDCH **APDCH** Sundry Type: NOI NOI

NMLC061705B Lease: NMLC061705B

Agreement: NMNM71016X 891000303X (NMNM71016X)

XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277 Operator: XTO PERMIAN OPERATING, LLC

6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374

**KELLY KARDOS** Admin Contact:

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Ph: 432-620-4374 Ph: 432-620-4374

Location:

NM EDDY State: NM County: **EDDY** 

Field/Pool: PURPLE SAGE WOLFCAMP PURPLE SAGE-WOLFCAMP (GAS)

POKER LAKE UNIT 17 TWR 106H Well/Facility:

POKER LAKE UNIT 17 TWR 106H Sec 20 T24S R31E NWNE 40FNL 1613FEL Sec 20 T24S R31E Mer NMP NWNE 65FNL 1613FEL

32.209969 N Lat, 103.796509 W Lon