\*(Instructions on page 2)

Form 3160-3 FORM APPROVED (June 2015) OMB No. 1004-0137 Expires: January 31, 2018 UNITED STATES DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT NMNM05912 APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✔ DRILL la. Type of work: REENTER NMNM 071016X 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone POKER LAKE UNIT 13-1 PC 2. Name of Operator 9. API Well No. 30-015-54014 XTO PERMIAN OPERATING LLC 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 6401 Holiday Hill Road, Bldg 5, Midland, TX 79707 (432) 682-8873 COTTON DRAW/BONE SPING, SOUTH 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 13/T24S/R29E/NMP At surface SWNE / 2375 FNL / 1430 FEL / LAT 32.218278 / LONG -103.934126 At proposed prod. zone SENW / 2448 FSL / 1650 FEL / LAT 32.246113 / LONG -103.934869 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13. State **EDDY** NM 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 330 feet location to nearest property or lease line, ft. 799.77 (Also to nearest drig. unit line, if any) 18. Distance from proposed location 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 11252 feet / 21903 feet FED: COB000050 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3106 feet 12/01/2021 60 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date KELLY KARDOS / Ph: (432) 682-8873 (Electronic Submission) 11/02/2020 Title Regulatory Coordinator Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 07/27/2023 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval 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. Conditions of approval, if any, are attached. 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. APPROVED WITH CONDITIONS

Approval Date: 07/27/2023

(Continued on page 2)

#### **Additional Operator Remarks**

#### **Location of Well**

0. SHL: SWNE / 2375 FNL / 1430 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.218278 / LONG: -103.934126 ( TVD: 0 feet, MD: 0 feet ) PPP: SWNE / 2540 FNL / 1650 FEL / TWSP: 24S / RANGE: 29E / SECTION: 13 / LAT: 32.217826 / LONG: -103.934836 ( TVD: 11252 feet, MD: 11613 feet ) BHL: SENW / 2448 FSL / 1650 FEL / TWSP: 24S / RANGE: 29E / SECTION: 1 / LAT: 32.246113 / LONG: -103.934869 ( TVD: 11252 feet, MD: 21903 feet )

#### **BLM Point of Contact**

Name: PRISCILLA PEREZ

Title: Legal Instruments Examiner

Phone: (575) 234-5934 Email: pperez@blm.gov District 1
1625 N. French Dr., Hobbs, NM 88240
Phone: (375) 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

640

# 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

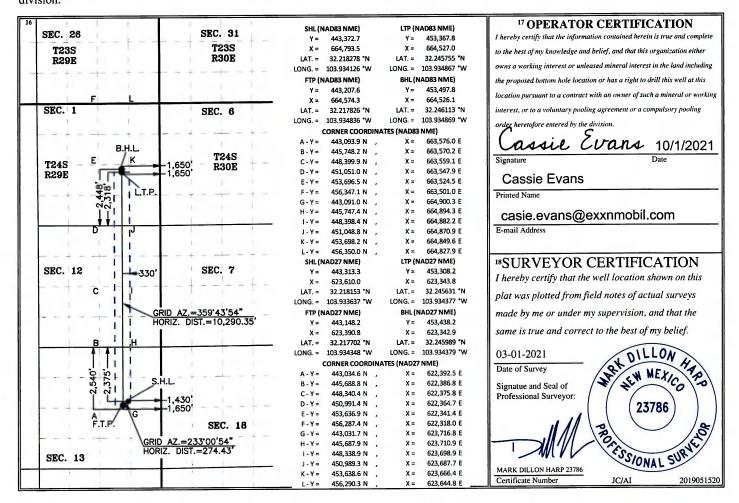
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Numb 30-015-	Pool Code 98220 Purple Sage; Wo		Purple Sage; Wolfcam	ip
<sup>4</sup> Property Code		5 p	roperty Name	<sup>6</sup> Well Number
333843		166H		
7 OGRID No.		8 C	perator Name	<sup>9</sup> Elevation
373075	_	XTO PERMI	AN OPERATING, LLC.	3,106'

<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	13	24 S	29 E		2,375	NORTH	1,430	EAST	EDDY
"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
J	1	24 S	29 E		2,448	SOUTH	1,650	EAST	EDDY
12 Dedicated Acre	<sup>2</sup> Dedicated Acres   13 Joint or Infill   14 Consolidation Code   15 Order No.								

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



#### State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

#### NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

#### Section 1 – Plan Description Effective May 25, 2021

I. Operator: _XTO Permian Operating, LLC	OGRID: _3373075	Date: _2/19/2023
II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC	□ 19.15.27.9.D(6)(b) NMAC	☐ Other.
If Other, please describe:		
III. Well(s): Provide the following information for each new or recomplete	ed well or set of wells proposed	d to be drilled or proposed to

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Poker Lake Unit 13-1 PC 105H		G-13-24S-29E	2315'FNL & 1730'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 106H		G-13-24S-29E	2315'FNL & 1430'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 107H		H-13-24S-29E	2315'FNL & 530'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 108H		H-13-24S-29E	1312'FNL & 230'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 116H		G-13-24S-29E	2345'FNL & 1430'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 118H		H-13-24S-29E	2345'FNL & 230'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 125H		G-13-24S-29E	2345'FNL & 1730'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 127H		H-13-24S-29E	2345'FNL & 530'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 157H		H-13-24S-29E	2375'FNL & 530'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 165H		G-13-24S-29E	2375'FNL & 1730'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 166H		G-13-24S-29E	2375'FNL & 1430'FEL	2000	3200	3500
Poker Lake Unit 13-1 PC 168H		H-13-24S-29E	2375'FNL & 230'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 105H		G-13-24S-29E	2414'FNL & 2445'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 106H		G-13-24S-29E	2414'FNL & 2145'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 107H		H-13-24S-29E	2375'FNL & 1130'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 108H		H-13-24S-29E	2375'FNL & 830'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 116H		G-13-24S-29E	2384'FNL & 2145'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 118H		H-13-24S-29E	2345'FNL & 830'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 125H		G-13-24S-29E	2384'FNL & 2445'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 127H		H-13-24S-29E	2345'FNL & 1130'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 156H		G-13-24S-29E	2354'FNL & 2144'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 158H		H-13-24S-29E	2315'FNL & 830'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 165H		G-13-24S-29E	2354'FNL & 2444'FEL	2000	3200	3500
Poker Lake Unit 13-24 PC 167H		H-13-24S-29E	2315'FNL & 1130'FEL	2000	3200	3500

IV. Central Delivery Point Name: \_Poker Lake Unit 13 PC CTBW and Poker Lake Unit 13 PC CTBE\_\_\_\_\_ [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Poker Lake Unit 13-1 PC 105H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 106H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 107H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 108H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 116H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 118H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 125H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 127H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 157H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 165H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 166H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-1 PC 168H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 105H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 106H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 107H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 108H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 116H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 118H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 125H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 127H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 156H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 158H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 165H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 13-24 PC 167H		TBD	TBD	TBD	TBD	TBD

VI. Separation Equipment: ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ⊠ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: 

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

#### Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

🗵 Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

#### X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering	Available Maximum Daily Capacity
_	-		Start Date	of System Segment Tie-in

XI. Map. $\square$ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system $\square$ will $\square$ will not have capacity to gather 100% of the anticipated na	tural gas
production volume from the well prior to the date of first production.	

XIII. Line Pressure. Operator $\square$ does $\square$ does not anticipate that its existing well(s) connected to the same segment	nt, or portion,	of the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused	by the new we	ell(s).

」Attach Operator's plan to manage pro	duction in response to	the increased line	pressure
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XIV. Confidentiality: $\Box$ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provide	d in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific informa	ıtion
for which confidentiality is asserted and the basis for such assertion.	

# Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

□ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☑ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ⊠ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

#### **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Jessica Sooling
Printed Name: Jessica Dooling
Title: Regulatory Coordinator
E-mail Address: jessica.dooling@exxonmobil.com
Date: 2/19/2023
Phone: 970-769-6048
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

#### **VI. Separation Equipment:**

XTO Permian Operating, LLC. production tank batteries include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool in conjunction with the total number of wells planned to or existing within the facility. Separation equipment is upgraded prior to well being drilled or completed, if determined to be undersized or needed. The separation equipment is designed and built according to the relevant industry specifications (API Specification 12J and ASME Sec VIII Div I). Other recognized industry publications such as the Gas Processors Suppliers Association (GPSA) are referenced when designing separation equipment to optimize gas capture.

#### **VII. Operational Practices:**

#### 1. Subsection B.

- During drilling, flare stacks will be located a minimum of 150 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

#### 2. Subsection C.

 During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.

For emergencies, equipment malfunction, or if the operator decides to produce oil and gas during well completion:

- Flowlines will be routed for flowback fluids into a completion or storage tank and, if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

#### 3. Subsection D.

- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.

 Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

#### 4. Subsection E.

- All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
- Flare stack was installed prior to May 25, 2021 but has been designed for proper size and combustion efficiency. Flare currently has a continuous pilot and is located more than 100 feet from any known well and storage tanks.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.

#### 5. Subsection F.

- Measurement equipment is installed to measure the volume of natural gas flared from process piping or a flowline piped from the equipment associated with a well and facility associated with the approved application for permit to drill that has an average daily production greater than 60 mcf of natural gas.
- Measurement equipment installed is not designed or equipped with a manifold to allow diversion of natural gas around the metering equipment, except for the sole purpose of inspecting and servicing the measurement equipment, as noted in NMAC 19.15.27.8 Subsection G.

#### **VIII. Best Management Practices:**

- 1. During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- 2. Operator does not flow well (well shut in) during initial production until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.
- 3. Operator equips storage tanks with an automatic gauging system to reduce venting of natural gas.
- 4. Operator reduces the number of blowdowns by looking for opportunities to coordinate repair and maintenance activities.
- 5. Operator combusts natural gas that would otherwise be vented or flared, when feasible.
- 6. Operator has a flare stack designed in accordance with need and to handle sufficient volume to ensure proper combustion efficiency. Flare stacks are equipped with continuous pilots and securely anchored at least 100 feet (at minimum) from storage tanks and wells.
- 7. Operator minimizes venting (when feasible) through pump downs of vessels and reducing time required to purge equipment before returning equipment to service.
- 8. Operator will shut in wells (when feasible) in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.



APD ID: 10400064724

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

# Drilling Plan Data Report

Submission Date: 11/02/2020

Highlighted data reflects the most recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Number: 166H

Well Name: POKER LAKE UNIT 13-1 PC
Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

**Show Final Text** 

#### **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
1127287	PERMIAN	3106	0	Ó	OTHER : Quaternary	NONE	N
1127278	RUSTLER	2860	246	246	SILTSTONE	USEABLE WATER	N
1127279	TOP SALT	2573	533	533	SALT	OTHER : Produced Water	N
1127280	BASE OF SALT	0	3106	3106	SALT	OTHER : Produced Water	N
1127276	DELAWARE	-207	3313	3313	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
1127277	BONE SPRING	-3957	7063	7063	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
1127275	BONE SPRING 1ST	-4982	8088	8088	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
1127274	BONE SPRING 2ND	-5817	8923	8923	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
1127293	BONE SPRING 3RD	-6917	10023	10023	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
1127295	WOLFCAMP	-7282	10388	10388	SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y

#### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M

Rating Depth: 11613

**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 4390 psi.

#### Requesting Variance? YES

**Variance request:** 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. Permanent Wellhead — Multibowl System A. Starting Head (RSH System): 11-3/4" SOW bottom x 13-5/8" 5M top flange A. Starting Head (RSH System): 11-3/4" SOW bottom x 13-5/8" 5M top flange B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M 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

Well Name: POKER LAKE UNIT 13-1 PC Well Number: 166H

8-5/8" casing per BLM Onshore Order 2 · Wellhead Manufacturer representative will not be present for BOP test plug installation Approval to utilize a spudder rig to pre-set surface casing per the attached Description of Operations. 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 GE 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. 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.

**Testing Procedure:** 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.

#### **Choke Diagram Attachment:**

PLU\_13\_PC\_5MBOP\_20201016112447.pdf

#### **BOP Diagram Attachment:**

PLU\_13\_PC\_5MCM\_20201016112511.pdf

#### Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	11.75	NEW	API	N	0	430	0	500	3106	2606	430	J-55	47	BUTT	5.81	1.17	DRY	20.3	DRY	20.3
2	INTERMED IATE	10.6 25	8.625	NEW	API	N	0	10600	0	10600	3125	-7494	10600	HCL -80	32	BUTT	1.43	1.3	DRY	2.16	DRY	2.16
3	PRODUCTI ON	7.87 5	5.5	NEW	API	N	0	21903	0	11252	3125	-8146	21903	P- 110	20	BUTT	1.65	1.18	DRY	2.07	DRY	2.07

#### **Casing Attachments**

Well Name: POKER LAKE UNIT 13-1 PC

Well Number: 166H

Casing	Attac	hment	S
--------	-------	-------	---

Casing ID: 1

String

SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

PLU\_13\_1\_PC\_166H\_Csg\_20230506165602.pdf

Casing ID: 2

String

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

PLU 13\_1\_PC\_166H\_Csg\_20230506165615.pdf

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

PLU\_13\_1\_PC\_166H\_Csg\_20230506165647.pdf

Section 4 - Cement

Well Name: POKER LAKE UNIT 13-1 PC

Well Number: 166H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead	-	0	500	100	1.88	12.8	188	100	Halcem-C	2% CaCl
SURFACE	Tail				190	1.35	14.8	256.5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead		0	1060 0	2010	1.88	12.8	3778. 8	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				310	1.33	14.8	412.3	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	2455 5	2250	1.88	11.5	4230	20	Halcem-C	2% CaCl
PRODUCTION	Tail				2250	1.33	13.2	2992. 5	20	VersaCem	none

#### **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Mud Logging Unit (2 man) below intermediate casing.

**Describe the mud monitoring system utilized:** A Pason or Totco will be used to detect changes in loss or gain of mud volume.

#### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1060	1125 2	OTHER : FW / Cut Brine / Polymer / OBM	11.2	11.8							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

Page 4 of 7

Well Name: POKER LAKE UNIT 13-1 PC

Well Number: 166H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
<u> </u>											down after mud up. Rig up solids control equipment to operate as a closed loop system
0	500	OTHER : FW/Native	8.4	8.8							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
500	1060	OTHER : FW / Cut Brine / Direct Emulsion	8.7	9.8							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

#### Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

List of open and cased hole logs run in the well:

CEMENT BOND LOG,COMPENSATED NEUTRON LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,MUD LOG/GEOLOGIC LITHOLOGY LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring will take place on this well.

#### Section 7 - Pressure

**Anticipated Bottom Hole Pressure: 6945** 

**Anticipated Surface Pressure: 4469** 

Anticipated Bottom Hole Temperature(F): 160

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Well Name: POKER LAKE UNIT 13-1 PC Well Number: 166H

Potential loss of circulation through the Capitan Reef.

#### Contingency Plans geoharzards description:

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

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

PLU\_13\_PC\_H2S\_Plan\_20201016120421.pdf PLU 13 PC Pad 2 H2S Dia\_20201028130621.pdf

#### **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

PLU\_13\_1\_PC\_166H\_DD\_20230506165718.pdf

#### Other proposed operations facets description:

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 11.75 inch casing @ 500' (31' above the salt) and circulating cement back to surface. A 10-5/8 inch vertical hole will be drilled to 10600' and 8-5/8 inch casing ran and cemented 500' into the 11-3/4 inch casing, this will also isolate the salt. An 7-7/8 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 8-5/8 inch casing shoe.

8-5/8" 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.

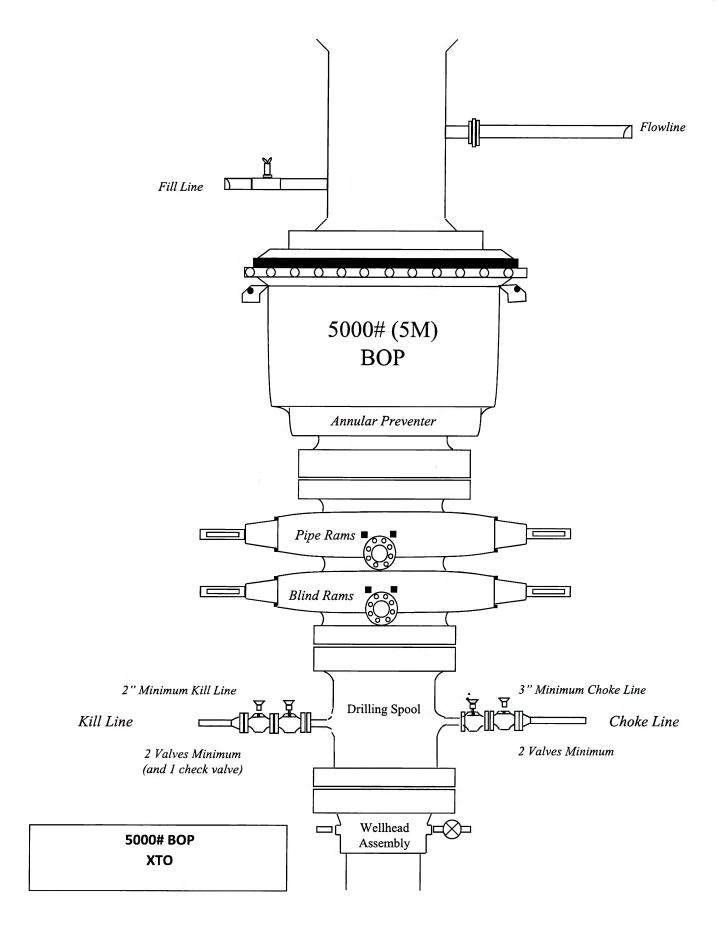
Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less.

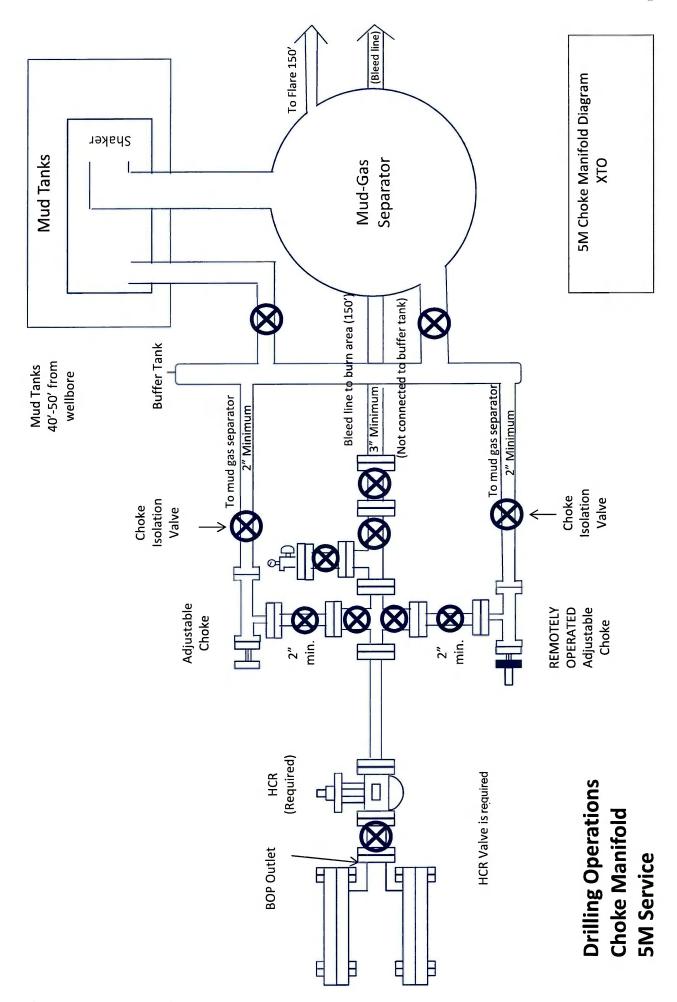
#### Other proposed operations facets attachment:

PLU\_13\_1\_PC\_GCP\_20201102065203.pdf

#### Other Variance attachment:

PLU\_13\_PC\_FH\_20201016120948.pdf
PLU\_13\_PC\_MBD\_20201016120928.pdf
PLU\_13\_PC\_Spud\_20201016121004.pdf
PLU\_13\_PC\_break\_20201016121015.pdf
PLU\_13\_PC\_cmt\_20201016121035.pdf





#### **Casing Assumption Worksheet**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' - 500'	11-3/4"	47	втс	J-55	New	1.17	5.81	20.30
10-5/8*	0' - 10600'	8-5/8"	32	втс	HCL-80	New	1.30	1.43	2.16
7-7/8"	0' - 21903.39'	5-1/2"	20	втс	P-110	New	1.18	1.65	2.19

XTO requests to not utilize centralizers in the curve and lateral

#### WELLHEAD:

#### Permanent Wellhead - GE RSH Multibowl System

- A. Starting Head (RSH System): 11-3/4" SOW bottom x 13-5/8" 5M top flange
- B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange
  - Wellhead will be installed by manufacturer's representatives.
  - Manufacturer will monitor welding process to ensure appropriate temperature of scal.
  - Operator will test the 8-5/8" casing per Onshore Order 2.

<sup>8-5/8&</sup>quot; Collapse analyzed using 50% evacuation based on regional experience.

<sup>5-1/2&</sup>quot; 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

#### Casing Assumption Worksheet

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' - 500'	11-3/4"	47	ВТС	J-55	New	1.17	5.81	20.30
10-5/8*	0' - 10600'	8-5/8°	32	BTC	HCL-80	New	1.30	1.43	2.16
7-7/8"	0' - 21903.39'	5-1/2"	20	BTC	P-110	New	1.18	1.65	2.19

XTO requests to not utilize centralizers in the curve and lateral

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#### **Casing Assumption Worksheet**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0* - 500	11-3/4"	47	BTC	J-55	New	1.17	5.81	20.30
10-5/8*	0' - 10600'	8-5/8"	32	BTC	HCL-80	New	1.30	1.43	2.16
7-7/8"	0' - 21903.39'	5-1/2"	20	ВТС	P-110	New	1.18	1.65	2.19

XTO requests to not utilize centralizers in the curve and lateral

#### WELLHEAD:

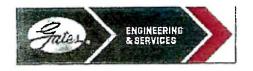
#### Permanent Wellhead - GE RSH Multibowl System

- A. Starting Head (RSH System): 11-3/4" SOW bottom x 13-5/8" 5M top flange
- B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M 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 8-5/8" casing per Onshore Order 2.

<sup>8-5/8&</sup>quot; Collapse analyzed using 50% evacuation based on regional experience.

<sup>5-1/2&</sup>quot; 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



**GATES E & S NORTH AMERICA, INC** 

**DU-TEX** 

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX:

361-887-0812

EMAIL: crpe&s@gates.com

www.gates.com

#### **GRADE D PRESSURE TEST CERTIFICATE**

Customer :

Customer Ref. : Invoice No.:

AUSTIN DISTRIBUTING

PENDING

201709

Test Date:

Hose Senal No.:

Created By:

6/8/2014

D-060814-1

**NORMA** 

Product Description:

FD3.042.0R41/16.5KFLGE/E LE

End Fitting 1:

Gates Part No. :

Working Pressure:

4 1/16 m.5K FLG 4774-6001 5,000 PSI

End Fitting 2:

Assembly Code:

Test Pressure :

4 1/16 in.5K FLG

L33090011513D-060814-1

7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:

Date :

Signature:

QUALITY

6/8/2014

Technical Supervisor:

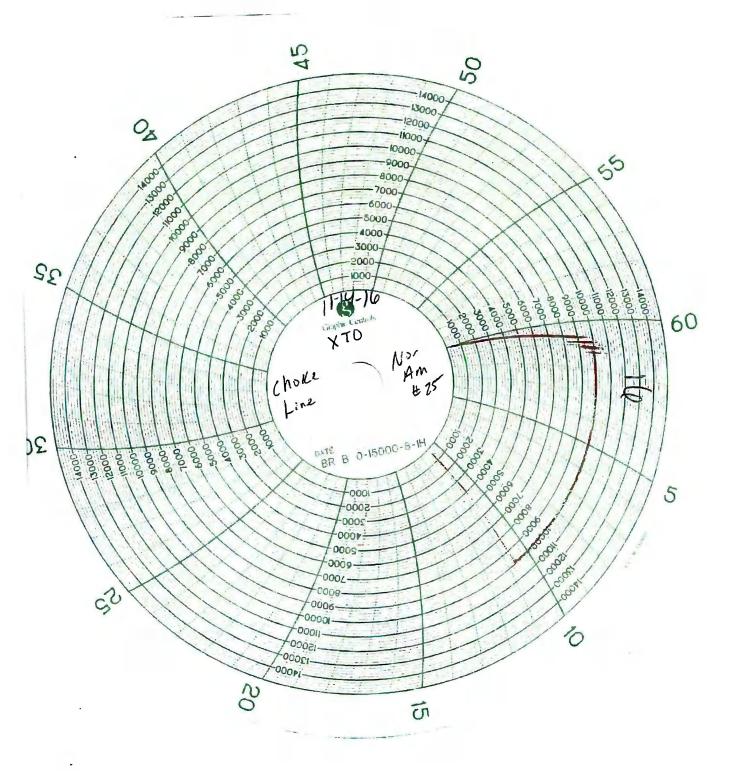
Date:

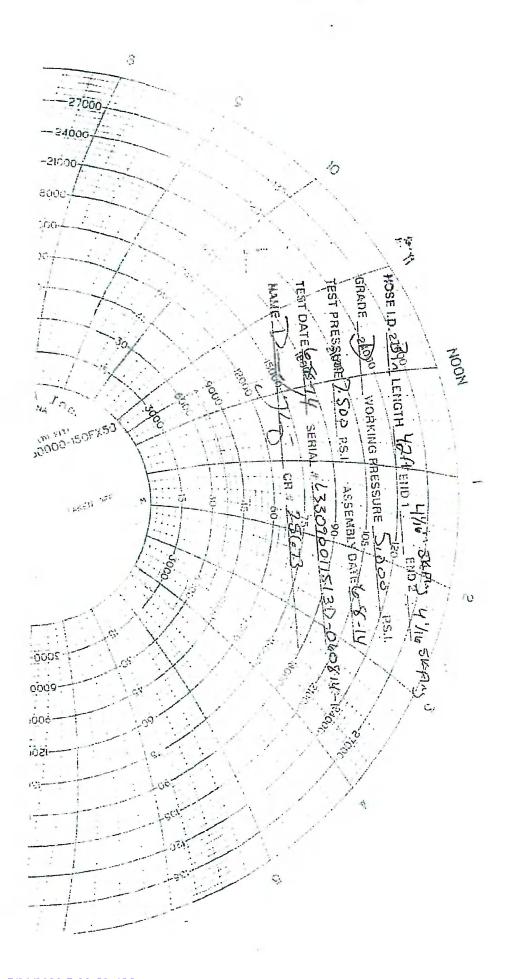
Signature:

**PRODUCTION** 

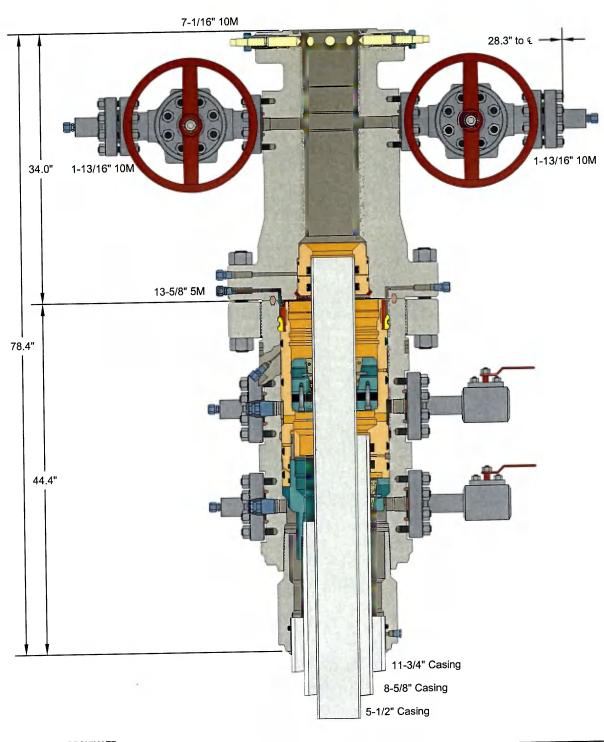
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Form PTC - 01 Rev.0 2









ALL DIMENSIONS ARE APPROXIMATE			
This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.	XTO	O ENERGY	, INC.
	DRAWN	VJK	310CT16
11-3/4" x 8-5/8" x 5-1/2" 10M RSH-2 Wellhead	APPRV	KN	310CT16
Assembly, With T-EBS-F Tubing Head	FOR REFERENCE DRAWING NO	100	12358

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.
  - 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.
- 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 nippled 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.

<u>Subject:</u> 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.

Table C.4—Initial Pressure Testing, Surface BOP Stacks  Pressure Test—High Pressure							
Component to be Pressure Tested	Pressure Test—Low Pressure <mark>**</mark> psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer or Ring Gasket				
Annular preventer	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	ПР				
Choke manifold—upstream of chokes	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ПР				
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or fi whichever is lower	MASP for the well program,				
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program					
Annular(s) and VBR(s) shall be pre- For pad drilling operations, moving pressure-controlling connections; For surface offshore operations, to vented during the initial test. For leading a program upsted at comme.	e during the evaluation period. The essure tested on the largest and sin throm one wellhead to another with when the integrity of a pressure se the ram BOPs shall be pressure to raind operations, the ram BOPs shall inssponned annually.	pressure shall not decrease below th nallest OO drill pipe to be used in well in the 21 days, pressure testing is rea	quired for pressure-containing ar d the closing and locking pressur ocks engaged and the closing ar				

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.

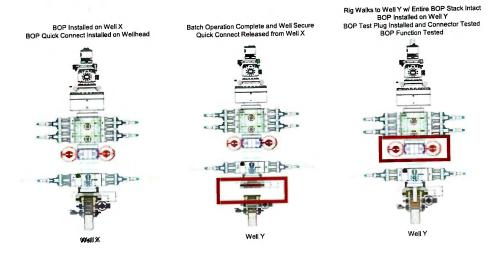
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that 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**

- 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



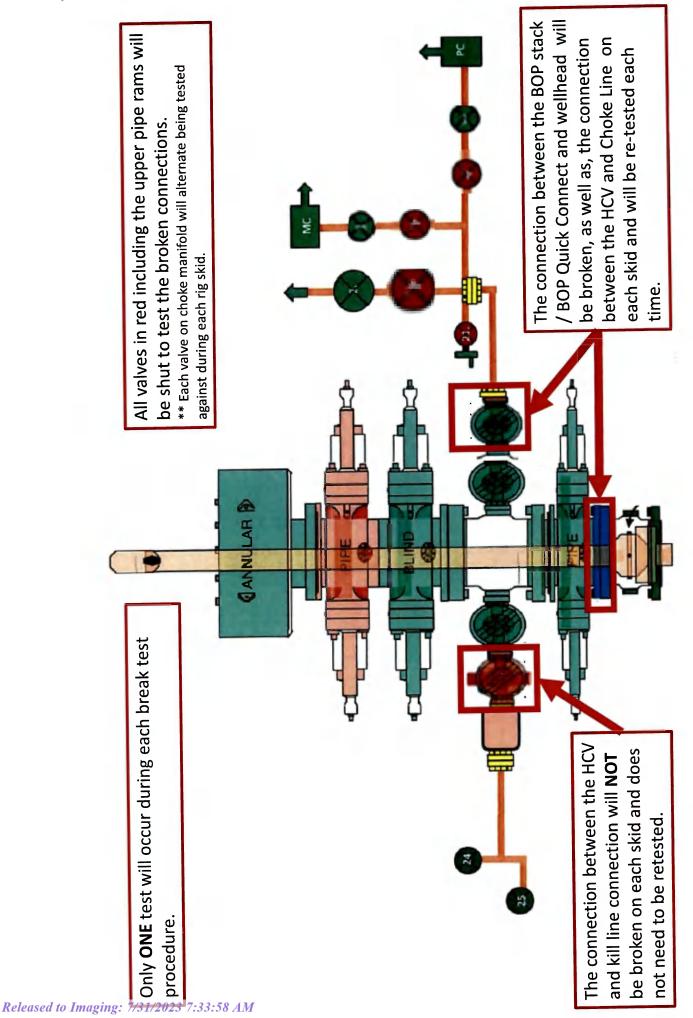
#### **Summary**

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.



# XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

#### 1. Cement Program

No changes to the cement program will take place for offline cementing.

#### 2. Offline Cementing Procedure

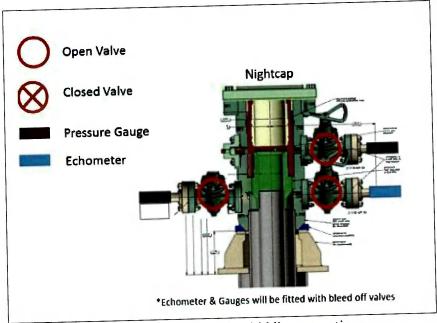
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
  - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

### XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
  - a. Well Control Plan
    - The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
    - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
    - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
    - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
    - v. Well will be confirmed static
    - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment

# From Mud Pumps From Cement Truck

# XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
  - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
  - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.



**XTO Energy** 

EDDY COUNTY, NM (NAD-27 / NME) POKER LAKE UNIT 13-1 PC 166H

Wellbore #1

Plan: PERMIT

# **Standard Planning Report**

01 May, 2023



Project: EDDY COUNTY, NM (NAD-27 / NME) Site: POKER LAKE UNIT 13-1 PC Well: 166H Wellbore: Wellbore #1 Design: PERMIT

Wellbore:

PROJECT DETAILS: EDDY COUNTY, NM (NAD-27 / NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: 166H

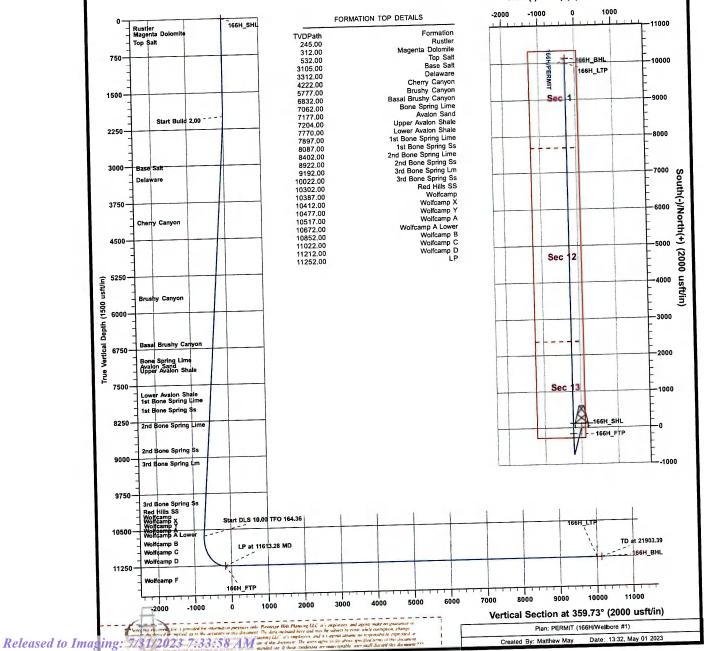
Rig Name: TBD
RKB = 33' @ 3139.00usft (TBD)
Ground Level: 3106.00
Easting
623610.00 3 Latittude 32.2181534 Longitude -103.9336367 +E/-W 0.00 Northing 443313.30 +N/-S 0.00

SECTION DETAILS													
Sec 1 2 3 4 5 6	MD 0.00 2000.00 2256.41 10663.89 11613.28 21773.39	0.00 0.00 5.13 5.13 90.00 90.00	Azi 0.00 0.00 195.32 195.32 359.73	TVD 0.00 2000.00 2256.06 10629.89 11252.00 11252.00	+N/-S 0.00 0.00 -11.06 -735.85 -165.10 9994.90 10124.90	+E/-W 0.00 0.00 -3.03 -201.54 -219.20 -266.49 -267.10	Dleg 0.00 0.00 2.00 0.00 10.00 0.00	TFace 0.00 0.00 195.32 0.00 164.36 0.00 0.00	VSect 0.00 0.00 -11.05 -734.90 -164.07 9996.04 10126.05	Target 166H_FTP 166H_LTP 166H_BHL			

DESIGN TARGET DETAILS

		DESIGN	1741021 221112				
Name TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
166H_SHL 0.00	0.00	0.00	443313.30	623610.00	32.2181534	-103.9336367	
166H_BHL 11252.00	10124.90	-267.10	453438.20	623342.90	32.2459888	-103.9343788	
166H_FTP 11252.00	-165.10	-219.20	443148.20	623390.80	32.2177018	-103.9343475	
166H_TTP 11252.00	9994.90	-266.20	453308.20	623343.80	32.2456314	-103.9343775	

#### West(-)/East(+) (2000 usft/in)





Database: Company: EDM 5000.1.13 Single User Db

**XTO Energy** 

Project:

EDDY COUNTY, NM (NAD-27 / NME)

Site: Well: POKER LAKE UNIT 13-1 PC 166H Wellbore #1

**PERMIT** 

Local Co-ordinate Reference:

**TVD Reference:** 

**MD Reference:** North Reference:

**Survey Calculation Method:** 

Well 166H

RKB = 33' @ 3139.00usft (TBD) RKB = 33' @ 3139.00usft (TBD)

Minimum Curvature

Design: Project

Wellbore:

EDDY COUNTY, NM (NAD-27 / NME)

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Site

POKER LAKE UNIT 13-1 PC

Site Position:

Map

Northing: Easting:

443,343.50 usft 623,310.00 usft

Latitude: Longitude:

32,2182396 -103.9346064

From: Position Uncertainty:

0.00 usft

Slot Radius:

13-3/16 "

**Grid Convergence:** 

0.21°

Well

166H +N/-S

+E/-W

-30.20 usft

Northing: Easting:

443,313.30 usft 623,610.00 usft Latitude: Longitude:

32.2181535 -103.9336367

**Position Uncertainty** 

300.00 usft 0.00 usft

Wellhead Elevation:

0.00 usft

**Ground Level:** 

3,106.00 usft

Wellbore

**Well Position** 

Wellbore #1

**Model Name Magnetics** 

PERMIT

05/01/23 **IGRF2020** 

Sample Date

Declination (°) 6.49 Dip Angle (°) 59.78 **Field Strength** (nT)

47,260

Design

**Audit Notes:** 

Version:

Phase:

**PLAN** 

Tie On Depth:

0.00

Direction +E/-W +N/-S Depth From (TVD) **Vertical Section:** (°) (usft) (usft) (usft) 359.73 0.00 0.00 0.00

an Sections Measured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
Parallel Sales		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	
2.000.00	0.00	0.00	2,000.00	0.00			2.00	0.00	195.32	
2.256.41	5.13	195.32	2,256.06	-11.06	-3.03	2.00			0.00	
_,		195.32	10.629.89	-735.85	-201.54	0.00	0.00	0.00		
10,663.89				-165.10	-219.20	10.00	8.94	17.32	164.36	166H_FTP
11,613.28	90.00	359.73	11,252.00				0.00	0.00	0.00	166H LTP
21,773.39	90.00	359.73	11,252.00	9,994.90	-266.49	0.00				166H BHL
21,903.39		359.73	11,252.00	10,124.90	-267.10	0.00	0.00	0.00	0.00	10011_DITL



Database: Company: Project:

Site:

Well:

EDM 5000.1.13 Single User Db XTO Energy

EDDY COUNTY, NM (NAD-27 / NME)

POKER LAKE UNIT 13-1 PC

166H Wellbore #1 Wellbore: PERMIT

Local Co-ordinate Reference:

TVD Reference: **MD** Reference:

North Reference: **Survey Calculation Method:**  Well 166H

RKB = 33' @ 3139.00usft (TBD) RKB = 33' @ 3139.00usft (TBD)

Minimum Curvature

n:	PERMIT								
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166H_SHL							0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00
245.00	0.00	0.00	245.00	0.00	0.00	0.00	0.00	0.00	
Rustler			000.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00				0.00	0.00
312.00	0.00	0.00	312.00	0.00	0.00	0.00	0.00	0.00	0.00
Magenta D	olomite				0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00
532.00	0.00	0.00	532.00	0.00	0.00	3.33			
Top Salt	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00					0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00 900.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00 0.00	0.00 0.00	1.000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00 1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
·			1.200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00 0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00 0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00 1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00		0.00 0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00 2.00		0.00
2,100.00	2.00	195.32	2,099.98	-1.68	-0.46	-1.68			
2,200.00	4.00	195.32	2,199.84	-6.73	-1.84	-6.72	2.00		0.00 0.00
2,256.41	5.13	195.32	2,256.06	-11.06	-3.03	-11.05	2.00		0.00
2,300.00	5.13	195.32	2,299.48	-14.82	-4.06	-14.80	0.00 0.00		0.00
2,400.00	5.13		2,399.08	-23.44	-6.42	-23.41 -32.02	0.00		0.00
2,500.00	5.13		2,498.68	-32.06	-8.78				0.00
2,600.00			2,598.28	-40.68	-11.14	-40.63 -49.24	0.00 0.00		0.00
2,700.00			2,697.88	-49.30 57.03	-13.50 -15.86		0.00		0.00
2,800.00			2,797.48 2,897.08	-57.92 -66.54	-18.23		0.00		0.00
2,900.00			2,897.08	-75.16	-20.59		0.00		0.00
3,000.00			·	-83.78	-22.95		0.00	0.00	
3,100.00			3,096.28 3,105.00	-84.54	-23.15		0.00		
3,108.75		193.32	5, 100.00	3					
Base Salt 3,200.00		195.32	3,195.88	-92.41	-25.31				
3,200.00			3,295.48	-101.03	-27.67			0.00	
3,316.59			3,312.00	-102.46	-28.06	-102.32	0.00	0.00	0.00
Delaware									
		195.32	3,395.08	-109.65	-30.03	-109.50	0.00		
3,400.00			3,494.68	-118.27	-32.39	-118.11			
3,500.00 3,600.00			3,594.28	-126.89	-34.75				
3,700.00			3,693.88	-135.51	-37.11				
3,800.00			3,793.48	-144.13	-39.48				
3,900.00			3,893.08	-152.75	-41.84				
4,000.00				-161.37	-44.20	-161.16	0.00	0.00	0.00



Database: Company: Project:

Wellbore:

Design:

EDM 5000.1.13 Single User Db XTO Energy

EDDY COUNTY, NM (NAD-27 / NME) POKER LAKE UNIT 13-1 PC

Site: Well:

166H Wellbore #1 PERMIT

Local Co-ordinate Reference.

**TVD Reference:** MD Reference:

North Reference: **Survey Calculation Method:**  Well 166H

RKB = 33' @ 3139.00usft (TBD) RKB = 33' @ 3139.00usft (TBD)

Grid

Minimum Curvature

P	lann	ed	Sui	rvey

	Measured Depth I (usft)	nclination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4.100.00 5.13 195.32 4.191.88 -178.61 49.92 -178.38 0.00 0.00 4.200.00 5.13 195.32 4.222.00 -181.22 49.63 -180.98 0.00 0.00 Cherry Canyon  4.300.00 5.13 195.32 4.391.08 -195.86 53.64 -195.60 0.00 0.00 4.300.00 5.13 195.32 4.391.08 -195.86 53.64 -195.60 0.00 0.00 4.500.00 5.13 195.32 4.790.88 -204.48 56.00 -204.21 0.00 0.00 4.500.00 5.13 195.32 4.889.88 -221.72 58.37 -212.82 0.00 0.00 4.500.00 5.13 195.32 4.889.88 -221.72 58.37 -212.82 0.00 0.00 4.500.00 5.13 195.32 4.889.88 -221.72 58.37 -212.82 0.00 0.00 5.000.00 5.13 195.32 4.889.88 -221.72 58.07 -230.04 0.00 5.000.00 5.13 195.32 4.889.88 -224.58 58.78 1 -247.26 0.00 0.00 5.000.00 5.13 195.32 5.885.07 52.84 58.84 59.28 0.00 0.00 5.000.00 5.13 195.32 5.586.27 -299.31 81.99 -273.09 0.00 0.00 5.000.00 5.13 195.32 5.586.27 -299.31 81.99 -289.99 5.000.00 5.13 195.32 5.586.57 -307.93 -81.34 0.00 0.00 5.000.00 5.13 195.32 5.586.27 -399.31 81.99 -289.99 5.000.00 5.13 195.32 5.586.27 -399.31 81.99 -289.99 5.000.00 5.13 195.32 5.586.27 -399.31 81.99 -289.99 5.000.00 5.13 195.32 5.586.79 -307.93 -81.34 0.00 0.00 5.000.00 5.13 195.32 5.586.79 -307.93 -81.34 0.00 0.00 5.000.00 5.13 195.32 5.585.07 -325.17 -89.06 -305.00 0.00 5.000.00 5.13 195.32 5.585.07 -325.17 -89.06 -305.00 0.00 5.000.00 5.13 195.32 5.585.07 -325.17 -89.06 -305.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -305.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -305.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 5.885.07 -325.17 -89.06 -325.47 0.00 0.00 5.000.00 5.13 195.32 7.785.07 -426.80 -426.60 0.00 0.00 5.0	A STATE OF THE PARTY OF THE PAR	SECURE SECURE SECURE	STATE OF STREET	STATE OF THE PARTY OF	THE RESERVE AND ADDRESS.	-46.56	-169.77			0.00
4,290.00							-178.38	0.00		0.00
A   200   Chery Canyon				4,191.00			-180.98	0.00	0.00	0.00
4,300.00 5.13 195.32 4,291.48 -187.23 51.28 -186.99 0.00 0.00 0.00 4,400.00 5.13 195.32 4,991.08 -195.86 53.64 -195.60 0.00 0.00 0.00 4,600.00 5.13 195.32 4,890.88 -204.48 56.00 -204.21 0.00 0.00 0.00 4,600.00 5.13 195.32 4,890.28 -213.10 56.03 -212.82 0.00 0.00 0.00 4,600.00 5.13 195.32 4,890.28 -221.72 60.73 -221.43 0.00 0.00 0.00 4,700.00 5.13 195.32 4,890.88 -221.72 60.73 -221.43 0.00 0.00 0.00 4,900.00 5.13 195.32 4,890.88 -221.72 60.73 -221.43 0.00 0.00 0.00 5,000.00 5.13 195.32 5,082.89 -247.58 67.81 -247.28 0.00 0.00 0.00 5,000.00 5.13 195.32 5,082.89 -247.58 67.81 -247.28 0.00 0.00 0.00 5,000.00 5.13 195.32 5,882.89 -226.20 -70.17 -255.87 0.00 0.00 5,000.00 5.13 195.32 5,887.88 -226.82 -72.53 -2264.48 0.00 0.00 5,000.00 5.13 195.32 5,886.80 -282.06 -77.25 -281.70 0.00 0.00 5,000.00 5.13 195.32 5,886.80 -282.06 -77.25 -281.70 0.00 0.00 5,000.00 5.13 195.32 5,886.87 -289.08 -79.62 -290.31 0.00 0.00 5,000.00 5.13 195.32 5,886.87 -299.38 8-1.98 -208.92 0.00 0.00 5,000.00 5.13 195.32 5,885.87 -307.93 884.34 -307.53 0.00 0.00 5,000.00 5.13 195.32 5,885.87 -307.93 884.34 -307.53 0.00 0.00 5,000.00 5.13 195.32 5,885.87 -307.93 884.34 -307.53 0.00 0.00 5,000.00 5.13 195.32 5,885.87 -307.93 884.34 -307.53 0.00 0.00 5,000.00 5.13 195.32 5,885.87 -307.93 884.34 -307.53 0.00 0.00 5,000.00 5.13 195.32 5,885.87 -307.93 884.34 -307.53 0.00 0.00 5,000.00 5.13 195.32 5,885.87 -307.93 884.34 -307.53 0.00 0.00 6.00 6.00 6.00 6.00 6.00 6.0	4,230.24	5.13	195.32	4,222.00	-101.22					
4,300.00 5,13 195,32 4,291,48 187,23 51,26 0.00 0.00 0.00 4,500.00 5,13 195,32 4,490,68 2,04,48 56,00 -204,21 0.00 0.00 4,500.00 5,13 195,32 4,890,68 2,213,10 58,37 -221,43 0.00 0.00 4,500.00 5,13 195,32 4,890,88 -221,72 60,73 -221,43 0.00 0.00 4,500.00 5,13 195,32 4,880,88 -221,72 60,73 -221,43 0.00 0.00 0.00 4,500.00 5,13 195,32 4,888,88 -238,96 65,45 -238,65 0.00 0.00 5,000.00 5,13 195,32 4,888,88 -238,96 65,45 -238,65 0.00 0.00 5,000.00 5,13 195,32 5,082,8 2,262.00 70,17 -255,87 0.00 0.00 5,000.00 5,13 195,32 5,082,8 2,262.00 70,17 -255,87 0.00 0.00 5,000.00 5,13 195,32 5,287,48 -273,44 74,89 -273,09 0.00 0.00 5,000.00 5,13 195,32 5,287,48 -273,44 74,89 -273,09 0.00 0.00 5,000.00 5,13 195,32 5,287,48 -224,68 -77,25 -281,70 0.00 0.00 5,000.00 5,13 195,32 5,486,67 -290,68 -79,62 -290,31 0.00 0.00 5,500.00 5,13 195,32 5,486,67 -290,81 -79,62 -290,31 0.00 0.00 5,500.00 5,13 195,32 5,885,87 -307,93 -343,4 -307,53 0.00 0.00 5,701,49 5,13 195,32 5,885,87 -307,93 -343,4 -307,53 0.00 0.00 5,701,49 5,13 195,32 5,885,87 -307,93 -84,34 -307,53 0.00 0.00 5,701,49 5,13 195,32 5,885,87 -307,93 -84,34 -307,53 0.00 0.00 5,701,49 5,13 195,32 5,885,87 -325,87 -89,06 324,74 0.00 0.00 5,700.00 5,13 195,32 5,885,87 -325,87 -89,06 324,74 0.00 0.00 5,700.00 5,13 195,32 5,885,07 -325,17 -89,06 324,74 0.00 0.00 5,900.00 5,13 195,32 5,885,07 -325,17 -89,06 324,74 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 6,000 5,13 195,32 6,884,27 -342,41 -93,78 341,96 0.00 0.00 0.00 6,000 5,13 195,32 7,782,47 445,86 112,47 445,89 0.00 0.00 0.00 6,000 5,13 195,	<b>Cherry Cany</b>	on .						0.00	0.00	0.00
4,400.00 5,13 195.32 4,391.08 -195.86 53.84 -195.60 0.00 0.00 0.00 4,500.00 5.13 195.32 4,890.68 -204.48 -204.48 -20.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	4 200 00	5 13	195.32	4,291.48	-187.23					0.00
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S,791.49	5,700.00			5,685.87	-307.93	-84.34	-307.53			
Strushy Canyon			105 32	5 777.00	-315.81	-86.50	-315.40	0.00	0.00	0.00
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6,400.00 5.13 195.32 6,482.67 -376.89 -103.23 -376.40 0.00 0.00 6,500.00 5.13 195.32 6,582.27 -385.51 -105.59 -385.01 0.00 0.00 0.00 6,700.00 5.13 195.32 6,681.87 -394.13 -107.95 -393.62 0.00 0.00 0.00 6,800.00 5.13 195.32 6,832.00 -407.13 -111.51 -406.60 0.00 0.00 0.00 6,800.00 5.13 195.32 6,832.00 -407.13 -111.51 -406.60 0.00 0.00 0.00 0.00 6,800.00 5.13 195.32 6,832.00 -407.13 -111.51 -406.60 0.00 0.00 0.00 0.00 0.00 0.00 0.0			195.32					0.00		0.00
6,500.00 5.13 195.32 6,582.27 -385.51 -105.59 -385.01 0.00 0.00 6,600.00 5.13 195.32 6,681.87 -394.13 -107.95 -393.62 0.00 0.00 0.00 6,800.00 5.13 195.32 6,832.00 -407.13 -111.51 -406.60 0.00 0.00 0.00 6,850.73 5.13 195.32 6,832.00 -407.13 -111.51 -406.60 0.00 0.00 0.00 0.00 6,900.00 5.13 195.32 6,881.07 -411.38 -112.67 -410.84 0.00 0.00 0.00 7,000.00 5.13 195.32 6,880.67 -420.00 -115.03 -419.45 0.00 0.00 7,001.00 5.13 195.32 7,062.00 -427.04 -116.96 -426.48 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0										0.00
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6,800.00 5.13 195.32 6,81.47 402.76 111.51 406.60 0.00 0.00 0.00 6,850.73 5.13 195.32 6,832.00 407.13 -111.51 406.60 0.00 0.00 0.00 6,900.00 5.13 195.32 6,881.07 411.38 -112.67 410.84 0.00 0.00 0.00 7,000.00 5.13 195.32 6,980.67 420.00 -115.03 419.45 0.00 0.00 7,081.66 5.13 195.32 7,062.00 427.04 -116.96 426.48 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	6.700.00	5.13								0.00
6,850.73         5.13         195.32         6,832.00         407.13         5113         407.13         5113         407.13         5113         407.13         5113         407.13         5113         407.14         407.15         407.14		5.13								0.00
Basal Brushy Canyon         6,900.00         5.13         195.32         6,881.07         -411.38         -112.67         -410.84         0.00         0.00           7,000.00         5.13         195.32         6,980.67         -420.00         -115.03         -419.45         0.00         0.00           7,081.66         5.13         195.32         7,062.00         -427.04         -116.96         -426.48         0.00         0.00           Bone Spring Lime           7,100.00         5.13         195.32         7,080.27         -428.62         -117.39         -428.06         0.00         0.00           Avalon Sand           7,200.00         5.13         195.32         7,179.87         -437.24         -119.76         -436.67         0.00         0.00           Typer Avalon Shale           7,300.00         5.13         195.32         7,279.47         -445.86         -122.12         -445.28         0.00         0.00           7,400.00         5.13         195.32         7,379.07         -454.48         -124.48         -453.89         0.00         0.00           7,500.00         5.13         195.32         7,578.27         -471.72         -129.20	6,850.73	5.13	195.32	6,832.00	-407.13	-111.51	-400.00	0.00		
6,900.00       5.13       195.32       6,881.07       -411.38       -112.07       419.45       0.00       0.00         7,000.00       5.13       195.32       6,980.67       -420.00       -115.03       -419.45       0.00       0.00         7,081.66       5.13       195.32       7,062.00       -427.04       -116.96       -426.48       0.00       0.00         Bone Spring Lime         7,100.00       5.13       195.32       7,080.27       -428.62       -117.39       -428.06       0.00       0.00         7,100.00       5.13       195.32       7,177.00       -436.99       -119.69       -436.42       0.00       0.00         Avalon Sand         7,200.00       5.13       195.32       7,179.87       -437.24       -119.76       -436.67       0.00       0.00         Typer Avalon Shale         7,300.00       5.13       195.32       7,279.47       -445.86       -122.12       -445.28       0.00       0.00         7,400.00       5.13       195.32       7,379.07       -454.48       -124.48       -453.89       0.00       0.00         7,500.00       5.13       195.32		hy Canyon				110.07	440.94	0.00	0.00	0.00
7,000.00         5.13         195.32         6,980.67         -420.00         -115.03										
7,081.66         5.13         195.32         7,062.00         -427.04         -116.96         -426.48         0.00         0.00           Bone Spring Lime         7,100.00         5.13         195.32         7,080.27         -428.62         -117.39         -428.06         0.00         0.00           7,197.12         5.13         195.32         7,177.00         -436.99         -119.69         -436.42         0.00         0.00           Avalon Sand         7,200.00         5.13         195.32         7,179.87         -437.24         -119.76         -436.67         0.00         0.00           7,2024.23         5.13         195.32         7,204.00         -439.33         -120.33         -438.76         0.00         0.00           Upper Avalon Shale           7,300.00         5.13         195.32         7,279.47         -445.86         -122.12         -445.28         0.00         0.00           7,400.00         5.13         195.32         7,379.07         -454.48         -124.48         -453.89         0.00         0.00           7,500.00         5.13         195.32         7,578.27         -471.72         -129.20         -471.11         0.00         0.00           7,60				6,980.67	-420.00					
Bone Spring Lime           7,100.00         5.13         195.32         7,080.27         -428.62         -117.39         -428.06         0.00         0.00           7,197.12         5.13         195.32         7,177.00         -436.99         -119.69         -436.42         0.00         0.00           Avalon Sand           7,200.00         5.13         195.32         7,179.87         -437.24         -119.76         -436.67         0.00         0.00           7,224.23         5.13         195.32         7,204.00         -439.33         -120.33         -438.76         0.00         0.00           Upper Avalon Shale           7,300.00         5.13         195.32         7,279.47         -445.86         -122.12         -445.28         0.00         0.00           7,400.00         5.13         195.32         7,379.07         -454.48         -124.48         -453.89         0.00         0.00           7,500.00         5.13         195.32         7,578.27         -471.72         -129.20         -471.11         0.00         0.00           7,600.00         5.13         195.32         7,578.27         -471.72         -129.20         -471.11         0.00 </td <td></td> <td>5.13</td> <td>195.32</td> <td>7,062.00</td> <td>-427.04</td> <td>-116.96</td> <td>-426.48</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>		5.13	195.32	7,062.00	-427.04	-116.96	-426.48	0.00	0.00	0.00
7,100.00 5.13 195.32 7,080.27 426.62 -117.69 436.42 0.00 0.00  Avalon Sand 7,200.00 5.13 195.32 7,179.87 -437.24 -119.76 436.67 0.00 0.00 7,224.23 5.13 195.32 7,204.00 -439.33 -120.33 -438.76 0.00 0.00  Upper Avalon Shale  7,300.00 5.13 195.32 7,279.47 -445.86 -122.12 -445.28 0.00 0.00 7,400.00 5.13 195.32 7,379.07 -454.48 -124.48 -453.89 0.00 0.00 7,500.00 5.13 195.32 7,478.67 -463.10 -126.84 -462.50 0.00 0.00 7,500.00 5.13 195.32 7,578.27 -471.72 -129.20 -471.11 0.00 0.00 7,600.00 5.13 195.32 7,578.27 -471.72 -129.20 -471.11 0.00 0.00 7,700.00 5.13 195.32 7,677.87 -480.34 -131.56 -479.72 0.00 0.00 7,700.00 5.13 195.32 7,677.87 -480.34 -131.56 -479.72 0.00 0.00								0.00		0.00
7,197.12 5.13 195.32 7,177.00 436.99 -119.69 436.42 0.00 0.00  Avalon Sand 7,200.00 5.13 195.32 7,179.87 -437.24 -119.76 436.67 0.00 0.00 7,224.23 5.13 195.32 7,204.00 439.33 -120.33 -438.76 0.00 0.00  Upper Avalon Shale 7,300.00 5.13 195.32 7,279.47 -445.86 -122.12 445.28 0.00 0.00 7,400.00 5.13 195.32 7,379.07 454.48 -124.48 453.89 0.00 0.00 7,500.00 5.13 195.32 7,478.67 463.10 -126.84 462.50 0.00 0.00 7,500.00 5.13 195.32 7,578.27 471.72 -129.20 471.11 0.00 0.00 7,600.00 5.13 195.32 7,578.27 471.72 -129.20 471.11 0.00 0.00 7,700.00 5.13 195.32 7,677.87 480.34 -131.56 479.72 0.00 0.00 7,700.00 5.13 195.32 7,677.87 480.34 -131.56 479.72 0.00 0.00		5.13	195.32	7,080.27						
Avalon Sand         7,200.00         5.13         195.32         7,179.87         -437.24         -119.76         -436.67         0.00         0.00           7,224.23         5.13         195.32         7,204.00         -439.33         -120.33         -438.76         0.00         0.00           Upper Avalon Shale           7,300.00         5.13         195.32         7,279.47         -445.86         -122.12         -445.28         0.00         0.00           7,400.00         5.13         195.32         7,379.07         -454.48         -124.48         -453.89         0.00         0.00           7,500.00         5.13         195.32         7,478.67         -463.10         -126.84         -462.50         0.00         0.00           7,600.00         5.13         195.32         7,578.27         -471.72         -129.20         -471.11         0.00         0.00           7,700.00         5.13         195.32         7,677.87         -480.34         -131.56         -479.72         0.00         0.00           7,700.00         5.13         195.32         7,677.87         -480.34         -131.56         -479.72         0.00         0.00	7 197 12			7,177.00	-436.99	-119.69	-436.42	0.00	, 0.00	0.00
7,200.00 5.13 195.32 7,179.87 -437.24 -113.70 1.00 1.00 0.00 0.00 0.00 0.00 0.00 0										0.0
7,224.23 5.13 195.32 7,204.00 -439.33 -120.33 -438.76 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0			195.32	7,179.87	-437.24					
Upper Avalon Shale           7,300.00         5.13         195.32         7,279.47         -445.86         -122.12         -445.28         0.00         0.00           7,400.00         5.13         195.32         7,379.07         -454.48         -124.48         -453.89         0.00         0.00           7,500.00         5.13         195.32         7,478.67         -463.10         -126.84         -462.50         0.00         0.00           7,600.00         5.13         195.32         7,578.27         -471.72         -129.20         -471.11         0.00         0.00           7,700.00         5.13         195.32         7,677.87         -480.34         -131.56         -479.72         0.00         0.00           7,700.00         5.13         195.32         7,3770.00         -488.32         -133.75         -487.68         0.00         0.00					-439.33	-120.33	-438.76	0.00	) 0.00	0.0
7,300.00 5.13 195.32 7,279.47 -445.86 -122.12 -445.28 0.00 0.00 7,400.00 5.13 195.32 7,379.07 -454.48 -124.48 -453.89 0.00 0.00 7,500.00 5.13 195.32 7,478.67 -463.10 -126.84 -462.50 0.00 0.00 7,500.00 5.13 195.32 7,578.27 -471.72 -129.20 -471.11 0.00 0.00 7,600.00 5.13 195.32 7,677.87 -480.34 -131.56 -479.72 0.00 0.00 7,700.00 5.13 195.32 7,677.87 -480.34 -131.56 -479.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	•									
7,300.00     5.13     195.32     7,279.47     -443.80     -124.48     -453.89     0.00     0.00       7,400.00     5.13     195.32     7,379.07     -454.48     -124.48     -453.89     0.00     0.00       7,500.00     5.13     195.32     7,478.67     -463.10     -126.84     -462.50     0.00     0.00       7,600.00     5.13     195.32     7,578.27     -471.72     -129.20     -471.11     0.00     0.00       7,700.00     5.13     195.32     7,677.87     -480.34     -131.56     -479.72     0.00     0.00       7,700.00     5.13     195.32     7,377.00     -488.32     -133.75     -487.68     0.00     0.00	• •			7 070 47	_115 QE	-192 12	-445.28	0.00		
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7,700.00 5.13 195.32 7,677.07 405.00 188.32 -133.75 487.68 0.00 0.00				7,5/8.2/						0.0
- 40C 00 7 770 00 -/88 37 -100 100 0100	7,700.00	5.13							0 00	0.0
7,702.00	7,792.50	5.13	195.32	7,770.00	-488.32	-133./5	-401.00	, 0.0	5.00	
Lower Avalon Shale 423 02 488 33 0 00 0.00		alon Shale			400.00	422.00	7 2/88 3	3 00	0.00	0.0
7,800.00 5.13 195.32 7,777.47 488.96 -133.92 488.33 0.00 0.00 7,900.00 5.13 195.32 7,877.07 497.58 -136.28 496.94 0.00 0.00		5.13	_						-	



Database: Company: Project:

EDM 5000.1.13 Single User Db

**XTO Energy** 

EDDY COUNTY, NM (NAD-27 / NME) POKER LAKE UNIT 13-1 PC

Site: Well: Wellbore:

166H Wellbore #1 **PERMIT** 

Local Co-ordinate Reference:

**TVD Reference:** MD Reference:

North Reference:

**Survey Calculation Method:** 

Well 166H

RKB = 33' @ 3139.00usft (TBD) RKB = 33' @ 3139.00usft (TBD)

Minimum Curvature

ed Survey		NAME OF TAXABLE PARTY.		STATE OF THE PARTY OF	THE PARTY OF THE P	A STATE OF THE STA			
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)		Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,920.01	5.13	195.32	7,897.00	-499.31	-136.76	-498.66	0.00	0.00	0.00
	Spring Lime		7.070.07	-506.21	-138.65	-505.55	0.00	0.00	0.00
00.000,8	5.13	195.32	7,976.67	-514.83	-141.01	-514.16	0.00	0.00	0.00
8,100.00	5.13 5.13	195.32 195.32	8,076.27 8,087.00	-514.63 -515.75	-141.26	-515.08	0.00	0.00	0.00
8,110.78	Spring Ss	100.02			440.07	-522.77	0.00	0.00	0.00
8,200.00		195.32	8,175.87	-523.45	-143.37		0.00	0.00	0.00
0,200.00		195.32	8,275.47	-532.07	-145.73	-531.37	0.00	0.00	0.00
8,300.00		195.32	8,375.07	-540.69	-148.09	-539.98	0.00		
8,400.00		195.32	8,402.00	-543.02	-148.73	-542.31	0.00	0.00	0.00
8,427.04		195.32	8,402.00	0.10.102			0.00	0.00	0.00
2nd Bone	Spring Lime	105 22	8,474.67	-549.31	-150.45	-548.59	0.00		0.00
8,500.00	5.13	195.32	8,574.27	-557.93	-152.81	-557.20	0.00	0.00	
8,600.00		195.32	8,574.27 8,673.87	-566.55	-155.17	-565.81	0.00	0.00	0.00
8,700.00	5.13	195.32			-157.53	-574.42	0.00	0.00	0.00
8,800.00		195.32	8,773.47	-575.17			0.00	0.00	0.00
8.900.00	5.13	195.32	8,873.07	-583.79	-159.90 -161.06	-583.03 -587.26	0.00	0.00	0.00
8,949.13	5.13	195.32	8,922.00	-588.03	-101.00	337.20			
2nd Bone	e Spring Ss			500.44	-162.26	-591.64	0.00	0.00	0.00
9,000.00	5.13	195.32	8,972.67	-592.41	-164.62	-600.25	0.00	0.00	0.00
9,100.00		195.32	9,072.27	-601.03		-608.86	0.00	0.00	0.00
9,200.00			9,171.86	-609.65	-166.98		0.00	0.00	0.00
9,220.22		195.32	9,192.00	-611.40	-167.46	-610.60	0.00	0.00	
	Spring Lm			-10.00	460.24	-617.47	0.00	0.00	0.00
9,300.00		195.32	9,271.46	-618.28	-169.34	-626.08	0.00	0.00	0.00
9,400.0			9,371.06	-626.90	-171.70		0.00		0.00
			9,470.66	-635.52	-174.06	-634.69	0.00		0.00
9,500.0 9,600.0			9,570.26	-644.14	-176.42	-643.30			
	•		9,669.86	-652.76	-178.79	-651.91	0.00		0.00
9,700.0	0 5.13			-661.38	-181.15	-660.52	0.00		0.00
9,800.0	0 5.13		9,769.46	-670.00	-183.51	-669.13	0.00	0.00	0.00
9,900.0	0 5.13		9,869.06	-678.62	-185.87	-677.74	0.00	0.00	
10,000.0		195.32	9,968.66		-187.13	-682.35			0.00
10,053.5	5 5.13	195.32	10,022.00	-683.24	-107.13	-002.00			
3rd Bon	e Spring Ss					000 2F	0.00	0.00	0.00
40 400 0	n 5.13	195.32	10,068.26	-687.24	-188.23				
10,100.0 10,200.0			10,167,86	-695.86	-190.59				
			10,267.46	-704.48	-192.95				
10,300.0 10,334.6			10,302.00	-707.47	-193.77	-706.55	0.00	, 0.00	2.30
Red Hill	-					740.40	0.00	0.00	0.00
10,400.0		3 195.32		-713.10	-195.31				
10,420.0		3 195.32	10,387.00	-714.83	-195.79	-713.90	0.00	0.00	
Wolfcar				740.00	106 20	-716.06	3 0.0	0.00	0.00
10,445.	12 5.1	3 195.32	10,412.00	-716.99	-196.38	-/ 10.00			
Wolfcar			10,466.66	-721.73	-197.67	-720.79			
10,500.					-197.92			0.00	0.00
10,510.		3 130.32						0.0	0.00
Wolfca		3 195.32	10,517.00	-726.08	-198.87	7 -725.1	4 0.0	0.0	0.00
10,550.		0 100.02							
Wolfca		105.00	10 566 26	-730.35	-200.04	4 -729.4	0.0		
10,600.	00 5.1				-201.54		0.0		
10,663.	89 5.1				-202.40			00 -8.9	
10,700.		225.85	5 10,665.93	-737.83 -737.94	-202.5	-		0 -5.9	0 268.78



Database: Company: Project:

Design:

**Planned Survey** 

EDM 5000.1.13 Single User Db

XTO Energy

PERMIT

EDDY COUNTY, NM (NAD-27 / NME)

POKER LAKE UNIT 13-1 PC Site: 166H Well: Wellbore #1 Wellbore:

Local Co-ordinate Reference: **TVD Reference: MD** Reference:

**North Reference: Survey Calculation Method:** 

**Vertical** 

Well 166H

**Dogleg** 

RKB = 33' @ 3139.00usft (TBD)

Build

Turn

RKB = 33' @ 3139.00usft (TBD)

Minimum Curvature

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-224.72

-225.19

-225.66

-226.12

-226.59

-227.05

-227.52

-227.98

-228.45

-228.91

-229.38

-229.84

-230.31

-230.78

-231.24

Measured Depth (usft)	Inclination (°)	Azimuth	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
Wolfcamp A 10.750.00	Lower 3.92	339.15	10,715.89	-736.82	-203.61	-735.85	10.00	5.38	220.77
10,800.00 10,850.00 10,888.86	8.78 13.74 17.61	350.75 354.07 355.38	10,765.57 10,814.60 10,852.00	-731.45 -721.77 -711.32	-204.84 -206.06 -207.01	-730.47 -720.79 -710.33	10.00 10.00 10.00	9.72 9.92 9.96	23.21 6.64 3.35
Wolfcamp E 10,900.00 10.950.00	18.72 23.71	355.65 356.59	10,862.59 10,909.19	-707.85 -689.80	-207.28 -208.49	-706.87 -688.81	10.00 10.00	9.97 9.98	2.48 1.87
11,000.00 11,050.00 11,080.87	28.70 33.70 36.78	357.21 357.66 357.89	10,954.03 10,996.79 11,022.00	-667.76 -641.90 -624.10	-209.68 -210.83 -211.52	-666.77 -640.89 -623.09	10.00 10.00 10.00	9.98 9.99 9.99	1.25 0.90 0.73
Wolfcamp ( 11,100.00 11,150.00	38.69 43.69	358.01 358.29	11,037.12 11,074.74	-612.40 -579.50	-211.94 -213.00	-611.39 -578.49	10.00 10.00	9.99 9.99	0.64 0.56
11,200.00 11,250.00 11,300.00 11,350.00 11,397.89	48.69 53.68 58.68 63.68 68.47	358.52 358.72 358.89 359.05 359.19	11,109.34 11,140.67 11,168.49 11,192.58 11,212.00	-543.44 -504.51 -462.99 -419.20 -375.45	-214.00 -214.94 -215.80 -216.58 -217.26	-542.43 -503.49 -461.97 -418.18 -374.42		9.99 10.00 10.00 10.00 10.00	0.46 0.40 0.35 0.31 0.29
Wolfcamp I 11,400.00 11,450.00 11,500.00 11,550.00 11,600.00	68.68 73.68 78.68 83.67 88.67	359.19 359.33 359.46 359.58 359.70	11,212.77 11,228.90 11,240.84 11,248.51 11,251.85	-373.48 -326.17 -277.64 -228.25 -178.38	-217.28 -217.89 -218.41 -218.82 -219.13	-372.45 -325.14 -276.61 -227.22 -177.34	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.28 0.27 0.26 0.25 0.24
11,613.28	90.00	359.73	11,252.00	-165.10	-219.20	-164.07	10.00	10.00	
<b>LP - 166H</b> _ 11,700.00 11,800.00 11,900.00 12,000.00	90.00 90.00 90.00 90.00	359.73 359.73	11,252.00 11,252.00 11,252.00 11,252.00	-78.38 21.62 121.62 221.62	-219.60 -220.07 -220.53 -221.00	222.66	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
10,100,00	00.00	250 73	11 252 00	321.62	-221.47	322.66	0.00	0.00	0.00

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Database: Company: Project:

EDM 5000.1.13 Single User Db

XTO Energy

EDDY COUNTY, NM (NAD-27 / NME) POKER LAKE UNIT 13-1 PC

Site: 166H Well: Wellbore #1 Wellbore:

Local Co-ordinate Reference:

**TVD Reference: MD** Reference:

North Reference: **Survey Calculation Method:**  Well 166H

RKB = 33' @ 3139.00usft (TBD) RKB = 33' @ 3139.00usft (TBD)

Grid

Minimum Curvature

gn:	PERMIT			15-1					
nned Survey			Vertical			Vertical	Dogleg	Build	Turn Rate
Measured Depth (usft)	Inclination (°)	Azimuth	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	(°/100usft)
	90.00	359.73	11,252.00	2,521.59	-231.71	2,522.66	0.00 0.00	0.00 0.00	0.00
14,300.00 14,400.00	90.00	359.73	11,252.00	2,621.59	-232.17	2,622.66	0.00	0.00	0.00
14,500.00	90.00	359.73	11,252.00	2,721.59	-232.64	2,722.66			0.00
		359.73	11,252.00	2,821.59	-233.10	2,822.66	0.00	0.00 0.00	0.00
14,600.00	90.00	359.73	11,252.00	2,921.59	-233.57	2,922.66	0.00	0.00	0.00
14,700.00	90.00 90.00	359.73	11,252.00	3,021.59	-234.03	3,022.66	0.00 0.00	0.00	0.00
14,800.00	90.00	359.73	11,252.00	3,121.59	-234.50	3,122.66	0.00	0.00	0.00
14,900.00	90.00	359.73	11,252.00	3,221.58	-234.97	3,222.66			0.00
15,000.00			11,252.00	3,321.58	-235.43	3,322.66	0.00	0.00	0.00
15,100.00	90.00	359.73 359.73	11,252.00	3,421.58	-235.90	3,422.66	0.00	0.00 0.00	0.00
15,200.00	90.00	359.73	11,252.00	3,521.58	-236.36	3,522.66	0.00	0.00	0.00
15,300.00	90.00	359.73	11,252.00	3,621.58	-236.83	3,622.66	0.00	0.00	0.00
15,400.00	90.00 90.00	359.73	11,252.00	3,721.58	-237.29	3,722.66	0.00		
15,500.00				3.821.58	-237.76	3,822.66	0.00	0.00	0.00 0.00
15,600.00	90.00	359.73	11,252.00 11,252.00	3,921.58	-238.22	3,922.66	0.00	0.00	0.00
15,700.00	90.00	359.73	11,252.00	4,021.58	-238.69	4,022.66	0.00	0.00	0.00
15,800.00	90.00	359.73	11,252.00	4,121.57	-239.15	4,122.66	0.00	0.00	0.00
15,900.00	90.00	359.73 359.73	11,252.00	4,221.57	-239.62	4,222.66	0.00	0.00	
16,000.00	90.00			4,321.57	-240.09	4,322.66	0.00	0.00	0.00
16,100.00	90.00	359.73	11,252.00	4,321.57	-240.55	4,422.66	0.00	0.00	0.00
16,200.00	90.00	359.73	11,252.00	4,521.57	-241.02	4,522.66	0.00		0.00 0.00
16,300.00	90.00	359.73	11,252.00 11,252.00	4,621.57	-241.48	4,622.66	0.00		0.00
16,400.00		359.73 359.73	11,252.00	4,721.57	-241.95	4,722.66	0.00		
16,500.00	90.00			4,821.57	-242.41	4,822.66	0.00		0.00
16,600.00	90.00		11,252.00	4,921.57	-242.88	4,922.66	0.00	0.00	0.00
16,700.00	90.00		11,252.00 11,252.00	5,021.56	-243.34	5,022.66	0.00		0.00 0.00
16,800.00			11,252.00	5,121.56	-243.81	5,122.66	0.00		0.00
16,900.00	90.00		11,252.00	5,221.56	-244.27	5,222.66	0.00		
17,000.00	90.00				-244.74	5,322.66	0.00	0.00	0.00
17,100.00	90.00		11,252.00	5,321.56 5,421.56	-245.21	5,422.66	0.00		
17,200.00	90.00		11,252.00	5,421.56	-245.67		0.00		
17,300.00	90.00		11,252.00 11,252.00	5,621.56	-246.14		0.00		
17,400.00	90.00		11,252.00	5,721.56	-246.60	5,722.66	0.00	0.00	
17,500.00	90.00	359.73			-247.07	5,822.66	0.00	0.00	
17,600.00	90.00		11,252.00	5,821.56 5,921.56	-247.57		0.00	0.00	
17,700.00	ე 90.00		11,252.00	6,021.55	-248.00		3 0.0		
17,800.0	90.00		11,252.00 11,252.00	6,121.55	-248.46	6,122.60	3 0.0		
17,900.0				6,221.55	-248.93		6 0.0		
18,000.0	0 90.00				-249.40	6,322.6	6 0.0		
18,100.0	0 90.00		11,252.00	6,321.55 6.421.55	-249.86		6 0.0		
18,200.0	0 90.0			6,521.55	-250.33	6,522.6	6 0.0		
18,300.0	0 90.0			6,621.55	-250.79	6,622.6	6 0.0		
18,400.0				6,721.55	-251.26		6 0.0		
18,500.0				6,821.55	-251.72	2 6,822.6	6 0.0		
18,600.0	0.09		11,252.00	6,921.54	-252.19		6 0.0		
18,700.0	0.00			7,021.54	-252.6		6 0.0		
18,800.0	90.0			7,121.54	-253.1	2 7,122.6			
18,900.0	90.0				-253.5		6 0.0		
19,000.0					-254.0	5 7,322.6	66 0.0		
19,100.0	0.00				-254.5		6 0.0		
19,200.0	0.09				-254.9		66 0.0		
19,300.0	00 90.0					5 7,622.6	66 0.0		
19,400.0							66 0.		
19,500.0	00 90.0	-				8 7,822.6	66 0.	0.0	0.00
19,600.	იი 90.0	0 359.7	3 11,252.00	7,821.53	-230.3	7,022.			OMPASS 5000.1

05/01/23 1:33:06PM

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Database: Company: Project:

EDM 5000.1.13 Single User Db

XTO Energy

EDDY COUNTY, NM (NAD-27 / NME)

Site: Well: Wellbore: Design:

POKER LAKE UNIT 13-1 PC

**Local Co-ordinate Reference: TVD Reference:** MD Reference: North Reference: **Survey Calculation Method:** 

Well 166H

RKB = 33' @ 3139.00usft (TBD) RKB = 33' @ 3139.00usft (TBD)

Grid

Minimum Curvature

166H Wellbore #1 **PERMIT** 

Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,700.00	90.00	359.73	11,252.00	7,921.53	-256.84	7,922.66	0.00	0.00	0.00
19,800.00	90.00	359.73	11,252.00	8,021.53	-257.31	8,022.66	0.00	0.00	0.00
19,900.00	90.00	359.73	11,252.00	8,121.53	-257.77	8,122.66	0.00	0.00	0.00
20,000.00	90.00	359.73	11,252.00	8,221.53	-258.24	8,222.66	0.00	0.00	0.00
20,100.00	90.00	359.73	11,252.00	8,321.53	-258.71	8,322.66	0.00	0.00	0.00
20,200.00	90.00	359.73	11,252.00	8,421.53	-259.17	8,422.66	0.00	0.00	0.00
20,300.00	90.00	359.73	11,252.00	8,521.53	-259.64	8,522.66	0.00	0.00	0.00
20,400.00	90.00	359.73	11,252.00	8,621.53	-260.10	8,622.66	0.00	0.00	0.00
20,500.00	90.00	359.73	11,252.00	8,721.52	-260.57	8,722.66	0.00	0.00	0.00
20,600.00	90.00	359.73	11,252.00	8,821.52	-261.03	8,822.66	0.00	0.00	0.00
20,700.00	90.00	359.73	11,252.00	8,921.52	-261.50	8,922.66	0.00	0.00	0.00
20,800.00	90.00	359.73	11,252.00	9,021.52	-261.96	9,022.66	0.00	0.00	0.00
20,900.00	90.00	359.73	11,252.00	9,121.52	-262.43	9,122.66	0.00	0.00	0.00
21,000.00	90.00	359.73	11,252.00	9,221.52	-262.89	9,222.66	0.00	0.00	0.00
21,100.00	90.00	359.73	11,252.00	9,321.52	-263.36	9,322.66	0.00	0.00	0.00
21,200.00	90.00	359.73	11,252.00	9,421.52	-263.83	9,422.66	0.00	0.00	0.00
21,300.00	90.00	359.73	11,252.00	9,521.52	-264.29	9,522.66	0.00	0.00	0.00
21,400.00	90.00	359.73	11,252.00	9,621.52	-264.76	9,622.66	0.00	0.00	0.00
21,500.00	90.00	359.73	11,252.00	9,721.51	-265.22	9,722.66	0.00	0.00	0.00
21,600.00 21,700.00 21,773.39 <b>166H LTP</b>	90.00 90.00 90.00	359.73 359.73 359.73	11,252.00 11,252.00 11,252.00	9,821.51 9,921.51 9,994.90	-265.69 -266.15 -266.49	9,822.66 9,922.66 9,996.04	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
21,800.00 21,903.39 <b>166H BHL</b>	90.00 90.00	359.73 359.73	11,252.00 11,252.00	10,021.51 10,124.90	-266.62 -267.10	10,022.66 10,126.05	0.00 0.00	0.00 0.00	0.00 0.00

Design Targets	NUMBER OF STREET			IN INCOMES		COLUMN TO THE		NAME OF THE OWNER.	
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
166H_SHL - plan hits target ce - Point	0.00 enter	0.00	0.00	0.00	0.00	443,313.30	623,610.00	32.2181535	-103.9336367
166H_FTP - plan hits target ce - Point	0.00 enter	0.00	11,252.00	-165.10	-219.20	443,148.20	623,390.80	32.2177019	-103.9343475
166H_LTP - plan misses targe - Point	0.00 et center by	0.00 0.29usft at	11,252.00 21773.39u	9,994.90 sft MD (1125	-266.20 2.00 TVD, 9	453,308.20 994.90 N, -266.4	623,343.80 9 E)	32.2456314	-103.9343775
166H_BHL - plan hits target ce - Point	0.00 enter	0.00	11,252.00	10,124.90	-267.10	453,438.20	623,342.90	32.2459888	-103.9343788



Database: Company: Project: EDM 5000.1.13 Single User Db

XTO Energy

EDDY COUNTY, NM (NAD-27 / NME)
POKER LAKE UNIT 13-1 PC

Site: POKER LAK
Well: 166H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method: Well 166H

RKB = 33' @ 3139.00usft (TBD) RKB = 33' @ 3139.00usft (TBD)

> Dip Direction

(°)

Grid

Lithology

Minimum Curvature

Dip

-	-	-	91179	
E.	-	-4:	-	

ns	THE RESERVE		THE RESERVE AND ADDRESS OF THE PARTY.
	Measured Depth (usft)	Vertical Depth (usft)	Name
	245.00	245.00	Rustler
	312.00	312.00	Magenta Dolomite
	532.00	532.00	Top Salt
	3,108.75	3,105.00	Base Salt
	3,316.59	3,312.00	Delaware
	4,230.24	4,222.00	Cherry Canyon
	5,791.49	5,777.00	Brushy Canyon
	6,850.73	6,832.00	Basal Brushy Canyon
	7,081.66	7,062.00	Bone Spring Lime
	7,197.12	7,177.00	Avalon Sand
	7,224.23	7,204.00	Upper Avalon Shale
	7,792.50	7,770.00	Lower Avalon Shale
	7,920.01	7,897.00	1st Bone Spring Lime
	8,110.78	8,087.00	1st Bone Spring Ss
	8,427.04	8,402.00	2nd Bone Spring Lime
	8,949.13	8,922.00	2nd Bone Spring Ss
	9,220.22	9,192.00	3rd Bone Spring Lm
	10,053.55	10,022.00	3rd Bone Spring Ss
	10,334.68	10,302.00	Red Hills SS
	10,420.02	10,387.00	Wolfcamp
	10,445.12	10,412.00	Wolfcamp X
	10,510.38	10,477.00	Wolfcamp Y
	10,550.54	10,517.00	Wolfcamp A
	10,706.07	10,672.00	Wolfcamp A Lower
	10,888.86	10,852.00	Wolfcamp B
	11,080.87	11,022.00	Wolfcamp C
	11,397.89	11,212.00	Wolfcamp D

11,252.00 LP

11,613.28

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: WELL NAME & NO.:

XTO Permian Operating LLC Poker Lake Unit 13-1 PC 166H

LOCATION:

Sec 13-24S-29E-NMP

COUNTY:

Eddy County, New Mexico

COA

H <sub>2</sub> S	€ No	C Yes		
Potash / WIPP	• None	Secretary	C R-111-P	□ WIPP
Cave / Karst	C Low	Medium	C High	Critical
Wellhead	Conventional	Multibowl	C Both	<ul><li>Diverter</li></ul>
Cementing	☐ Primary Squeeze	Cont. Squeeze	☐ EchoMeter	□ DV Tool
Special Req	▼ Break Testing	☐ Water Disposal	ГСОМ	<b>▽</b> Unit
Variance	▼ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	Capitan Reef
Variance	☐ Four-String	▼ Offline Cementing	▼ Fluid-Filled	☐ Open Annulus
		Batch APD / Sundry		

#### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 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 430 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - 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.

# Intermediate casing must be kept fluid-filled to meet BLM's minimum collapse requirements.

- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
  - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

## D. SPECIAL REQUIREMENT (S)

#### **Unit Wells**

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

### **Commercial Well Determination**

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

## **BOPE Break Testing Variance**

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

#### **Offline Cementing**

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

# GENERAL REQUIREMENTS

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

a. Spudding well (minimum of 24 hours)

Page 3 of 8

**Approval Date: 07/27/2023** 

- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County
    Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM\_NM\_CFO\_DrillingNotifications@BLM.GOV (575) 361-2822
  - Lea County
     Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

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

changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

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

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

#### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.



# **HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN**

# **Assumed 100 ppm ROE = 3000'**

100 ppm H2S concentration shall trigger activation of this plan.

# **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- · Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- · Have received training in the
  - o Detection of H<sub>2</sub>S, and
  - o Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

### **Ignition of Gas source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

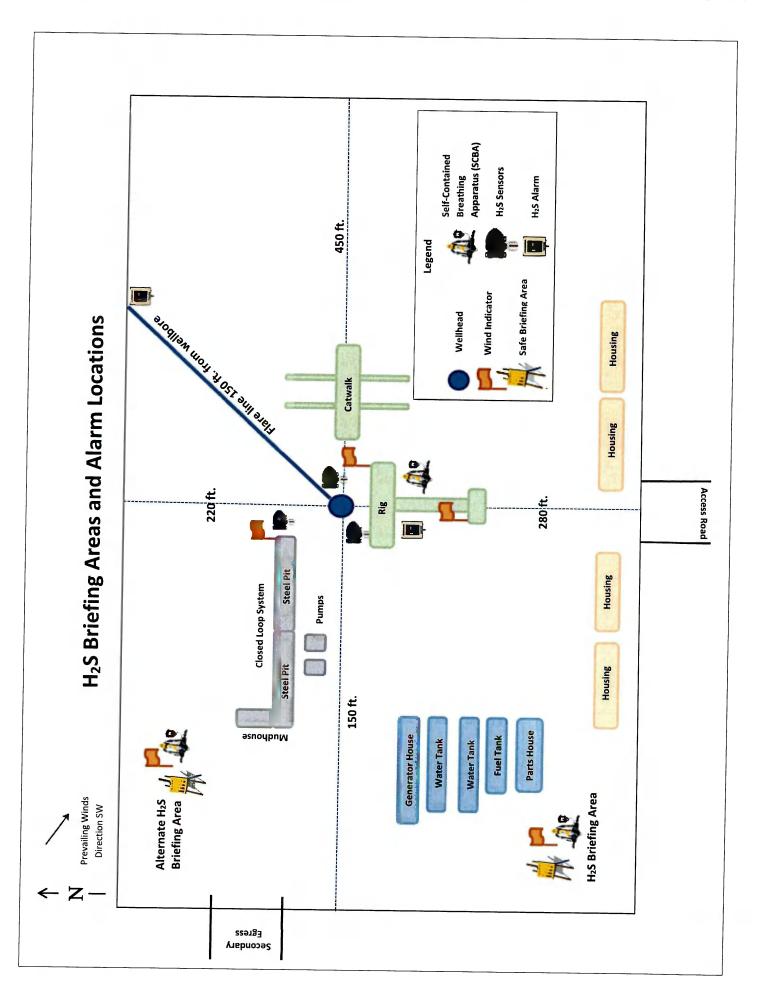
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = I	2 ppm	N/A	1000 ppm

#### **Contacting Authorities**

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

# **CARLSBAD OFFICE – EDDY & LEA COUNTIES**

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL:  Kendall Decker, Drilling Manager  Milton Turman, Drilling Superintendent  Jeff Raines, Construction Foreman  Toady Sanders, EH & S Manager  Wes McSpadden, Production Foreman	903-521-6477 817-524-5107 432-557-3159 903-520-1601 575-441-1147
SHERIFF DEPARTMENTS: Eddy County Lea County	575-887-7551 575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS: Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2112 575-397-9308 575-395-2221 575-396-2359
AGENT NOTIFICATIONS: For Lea County: Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
For Eddy County: Bureau of Land Management - Carlsbad New Mexico Oil Conservation Division - Artesia	575-234-5972 575-748-1283



**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: POKER LAKE UNIT 13-1 PC Well Number: 166H

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

**FACILITY** 

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of human waste.

Waste type: GARBAGE

Waste content description: Garbage, junk and non-flammable waste materials

Amount of waste: 250

pounds

Waste disposal frequency: Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

**FACILITY** 

Disposal type description:

**Disposal location description:** A licensed 3rd party vendor will be contracted to haul and safely dispose of garbage, junk and non-flammable waste materials.

#### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

### **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? Y

**Description of cuttings location** Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.)

Cuttings area width (ft.)

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 13-1 PC

Well Number: 166H

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

# **Section 8 - Ancillary**

Are you requesting any Ancillary Facilities?: N

**Ancillary Facilities** 

Comments:

# Section 9 - Well Site

#### Well Site Layout Diagram:

PLU\_13\_1\_PC\_166H\_Layout\_20201102072814.pdf

**Comments:** There are 4 multi-well pads in the Poker Lake Unit 13 PC lease anticipated. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East: 1. Pad 1 is a 6-well pad expected to be 600x600. 2. Pad 2 is a 6-well pad expected to be 600x600. 3. Pad 3 is a 6-well pad expected to be 600x600. 4. Pad 4 is a 6-well pad expected to be 600x600.

## Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: POKER LAKE UNIT 13 PC

Multiple Well Pad Number: 2

#### Recontouring

PLU\_13\_PC\_IR1\_Dia\_20201016121729.pdf

PLU\_13\_PC\_IR2\_Dia\_20201016121737.pdf

PLU\_13\_PC\_IR3\_Dia\_20201016121749.pdf

PLU\_13\_PC\_IR4\_Dia\_20201016121800.pdf

**Drainage/Erosion control construction:** All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

**Drainage/Erosion control reclamation:** Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 245383

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	245383
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	7/31/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/31/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	7/31/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	7/31/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	7/31/2023
ward.rikala	XTO is currently out of compliance with Rule 5.9. This well can not be produced until XTO is in compliance with Rule 5.9.	7/31/2023