Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMLC0062140A

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.
POKER LAKE / NMNM 071016X

8. Lease Name and Well No.
POKER LAKE UNIT 28-21 BS
125H

2. Name of Operator
XTO PERMIAN OPERATING LLC

9. API Well No.
30-015-53230

3a. Address
6401 Holiday Hill Road, Bldg 5, Midland, TX 79707

3b. Phone No. *(include area code)*
(432) 682-8873

10. Field and Pool, or Exploratory
PURPLE SAGE; WOLFCAMP (GAS)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface NWNE / 549 FNL / 2005 FEL / LAT 32.107049 / LONG -103.780967
At proposed prod. zone NWNE / 50 FNL / 2430 FEL / LAT 32.122984 / LONG -103.782261

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 28/T25S/R31E/NMP

14. Distance in miles and direction from nearest town or post office*
27 miles

12. County or Parish
EDDY

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
549 feet

16. No of acres in lease

17. Spacing Unit dedicated to this well
480.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
30 feet

19. Proposed Depth
11879 feet / 20070 feet

20. BLM/BIA Bond No. in file
FED: COB000050

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3348 feet

22. Approximate date work will start*
06/19/2021

23. Estimated duration
45 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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	STEPHANIE RABADUE / Ph: (432) 682-8873	01/09/2021

Title
Regulatory Coordinator

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	06/04/2021

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: 06/04/2021

(Continued on page 2)

*(Instructions on page 2)

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015- 53230	98220	Purple Sage; Wolfcamp (gas)

[4] Property Code	[5] Property Name	[6] Well Number
331529	POKER LAKE UNIT 28-21 BS	125H

[7] OGRID No.	[8] Operator Name	[9] Elevation
373075	XTO PERMIAN OPERATING, LLC	3,348'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	28	25 S	31 E		549	NORTH	2,005	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

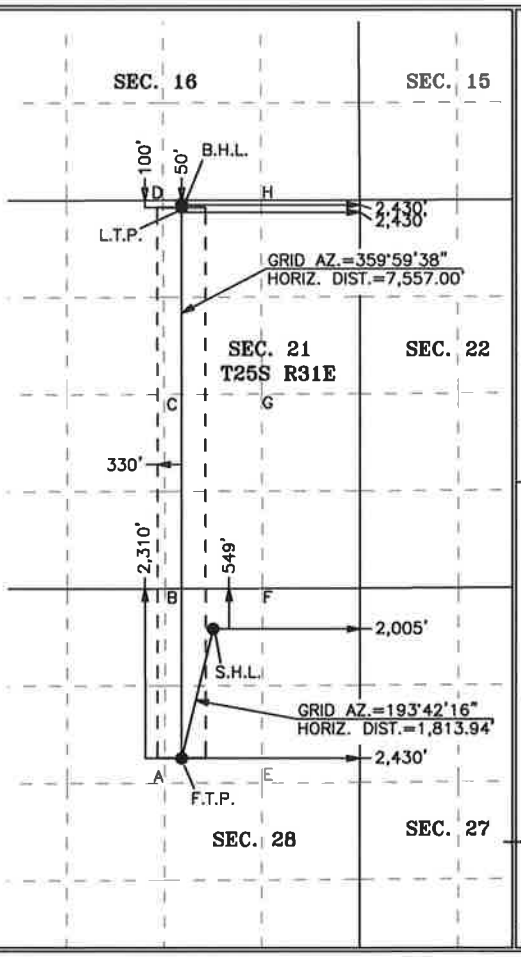
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	21	25 S	31 E		50	NORTH	2,430	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
480			

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.

[16]

SHL (NAD83 NME)		LTP (NAD83 NME)	
Y =	403,119.0	Y =	408,863.7
X =	712,366.5	X =	711,936.0
LAT. =	32.107049 °N	LAT. =	32.122846 °N
LONG. =	103.780967 °W	LONG. =	103.782262 °W
FTP (NAD83 NME)		BHL (NAD83 NME)	
Y =	401,356.7	Y =	408,913.7
X =	711,936.8	X =	711,935.9
LAT. =	32.102211 °N	LAT. =	32.122984 °N
LONG. =	103.782384 °W	LONG. =	103.782261 °W
CORNER COORDINATES (NAD83 NME)			
A - Y =	401,014.4 N ,	X =	711,707.2 E
B - Y =	403,666.0 N ,	X =	711,714.2 E
C - Y =	406,311.4 N ,	X =	711,697.2 E
D - Y =	408,963.3 N ,	X =	711,680.3 E
E - Y =	401,020.7 N ,	X =	713,036.5 E
F - Y =	403,670.3 N ,	X =	713,043.8 E
G - Y =	406,316.4 N ,	X =	713,033.4 E
H - Y =	408,965.5 N ,	X =	713,023.1 E
SHL (NAD27 NME)		LTP (NAD27 NME)	
Y =	403,061.1	Y =	408,805.6
X =	671,180.8	X =	670,750.6
LAT. =	32.106924 °N	LAT. =	32.122722 °N
LONG. =	103.780489 °W	LONG. =	103.781783 °W
FTP (NAD27 NME)		BHL (NAD27 NME)	
Y =	401,298.8	Y =	408,855.6
X =	670,751.0	X =	670,750.5
LAT. =	32.102086 °N	LAT. =	32.122859 °N
LONG. =	103.781906 °W	LONG. =	103.781783 °W
CORNER COORDINATES (NAD27 NME)			
A - Y =	400,956.5 N ,	X =	670,521.5 E
B - Y =	403,608.1 N ,	X =	670,528.5 E
C - Y =	406,253.4 N ,	X =	670,511.7 E
D - Y =	408,905.2 N ,	X =	670,494.8 E
E - Y =	400,962.9 N ,	X =	671,850.8 E
F - Y =	403,612.4 N ,	X =	671,858.2 E
G - Y =	406,258.4 N ,	X =	671,847.8 E
H - Y =	408,907.5 N ,	X =	671,837.6 E



[17] OPERATOR CERTIFICATION

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

Cassie Evans 12/03/2020
Signature Date

Cassie Evans
Printed Name

cassie_evans@xtoenergy.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

12-1-2020
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number LM 2019082864

P:\PROJECTS\2019\2019082864-XTO-POKER_LAKE_UNIT_28-21_BS_125H-EDDY\DWG\2019082864-XTO-POKER_LAKE_UNIT_28-21_BS_125H_C-102_11-30-2020.dwg

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:** 373075 **Date:** 05/01/2022

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 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 28-21 BS 102H		E-28-25S-31E	1505'FNL & 898'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 103H		C-28-25S-31E	544'FNL & 2187'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 104H		C-28-25S-31E	544'FNL & 2217'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 105H		B-28-25S-31E	549'FNL & 1945'FEL	2000	3200	3500
Poker Lake Unit 28-21 BS 107H		A-28-25S-31E	536'FNL & 770'FEL	2000	3200	3500
Poker Lake Unit 28-21 BS 108H		A-28-25S-31E	536'FNL & 740'FEL	2000	3200	3500
Poker Lake Unit 28-21 BS 121H		E-28-25S-31E	1505'FNL & 838'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 122H		E-28-25S-31E	1505'FNL & 868'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 124H		C-28-25S-31E	544'FNL & 2158'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 125H		B-28-25S-31E	549'FNL & 2005'FEL	2000	3200	3500
Poker Lake Unit 28-21 BS 126H		B-28-25S-31E	549'FNL & 1975'FEL	2000	3200	3500
Poker Lake Unit 28-21 BS 127H		A-28-25S-31E	536'FNL & 800'FEL	2000	3200	3500
Poker Lake Unit 28-21 BS 151H		E-28-25S-31E	1505'FNL & 438'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 153H		C-28-25S-31E	545'FNL & 1727'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 154H		C-28-25S-31E	545'FNL & 1758'FWL	2000	3200	3500
Poker Lake Unit 28-21 BS 156H		A-28-25S-31E	536'FNL & 1230'FEL	2000	3200	3500
Poker Lake Unit 28-21 BS 158H		A-28-25S-31E	536'FNL & 1200'FEL	2000	3200	3500

IV. Central Delivery Point Name: Poker Lake Unit 28 CTBW and Poker Lake Unit 28 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 Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 28-21 BS 102H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 103H		TBD	TBD	TBD	TBD	TBD

Poker Lake Unit 28-21 BS 104H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 105H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 107H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 108H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 121H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 122H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 124H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 125H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 126H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 127H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 151H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 153H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 154H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 156H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 158H		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 Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ 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 ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided 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 information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

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 Dooling
Printed Name: Jessica Dooling
Title: Lead Regulatory Coordinator
E-mail Address: Jessica.dooling@exxonmobil.com
Date: 11/16/2022
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.

AFMSS

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

Drilling Plan Data Report

08/27/2021

APD ID: 10400067290
Submission Date: 01/09/2021
Operator Name: XTO PERMIAN OPERATING LLC
Well Name: POKER LAKE UNIT 28-21 BS
Well Number: 125H
Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1254835	QUATERNARY	3348	0	0	ALLUVIUM	USEABLE WATER	N
1254836	RUSTLER	2546	802	802	SANDSTONE	USEABLE WATER	N
1254837	TOP SALT	2148	1200	1200	SALT	OTHER : Salt	N
1254838	BASE OF SALT	-686	4034	4034	SALT	NONE	N
1254839	DELAWARE	-893	4241	4241	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	N
1254840	BONE SPRING	-4831	8179	8179	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
1254841	WOLFCAMP	-8207	11555	11555	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 11879

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. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.
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.A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole. Permanent Wellhead – Multibowl System A. Starting Head: 13-5/8" 10M top flange x 11-3/4" SOW bottom B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange · Wellhead will be installed by manufacturer's representatives. · Manufacturer will monitor welding process to ensure appropriate temperature of seal. · Operator will test the 7-5/8" casing per BLM Onshore Order 2 · Wellhead Manufacturer representative will not be present for BOP test plug installation

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28-21 BS **Well Number:** 125H

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_28_21_BS_5MCM_20201226100406.pdf

BOP Diagram Attachment:

PLU_28_21_BS_5MBOP_20201226100413.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	14.75	11.75	NEW	API	N	0	1180	0	1180	3351	2171	1180	J-55	47	BUTT	2.46	1.17	DRY	8.6	DRY	8.6
2	INTERMEDIATE	10.625	8.625	NEW	API	N	0	10600	0	10600	3329	-7249	10600	HCL-80	32	BUTT	1.43	1.1	DRY	2.16	DRY	2.16
3	PRODUCTION	7.875	5.5	NEW	API	N	0	20070	0	11879	3329	-8528	20070	P-110	20	BUTT	1.48	1.18	DRY	2.29	DRY	2.29

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_125H_Csg_20201227125810.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28-21 BS **Well Number:** 125H

Casing Attachments

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_125H_Csg_20201227125734.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_125H_Csg_20201227125801.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1180	590	1.88	12.8	1109.2	100	Halc-C	2% CaCL
INTERMEDIATE	Lead	1230	0	1230	70	1.35	14.8	94.5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	1230	1230	10600	1850	1.88	12.8	3478	100	Halcem-C	2% CaCl

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28-21 BS **Well Number:** 125H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		1230	10600	310	1.33	14.8	412.3	100	Halcem-C	2% CaCl
PRODUCTION	Lead		10300	20070	2900	1.88	11.5	5452	100	Halcem-C	2% CaCl
PRODUCTION	Tail		10300	20070	2900	1.35	13.2	3915	100	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: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: Spud with fresh water/native mud and set 11-3/4" surface casing, isolating the fresh water aquifer. Drill out from under 11-3/4 surface casing with a brine/oil direct emulsion mud system. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

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)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1180	SPUD MUD	8.4	8.8							
1180	10600	OTHER : Brine / Cut Brine / Direct Emulsion	8.4	9.7							
10600	11879	OTHER : Cut Brine / WBM / OBM	10.8	11.8							

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28-21 BS **Well Number:** 125H

Section 6 - Test, Logging, Coring

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

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.Open hole logging will not be done on this well.

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

CEMENT BOND LOG,DIRECTIONAL SURVEY,

Coring operation description for the well:

No Coring Operations for Well

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6671 **Anticipated Surface Pressure:** 4057

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

PLU_28_21_BS_H2S_Dia_20201226061200.pdf
PLU_28_21_BS_H2S_Plan_20201226061206.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_28_21_BS_125H_DD_20201227125938.pdf

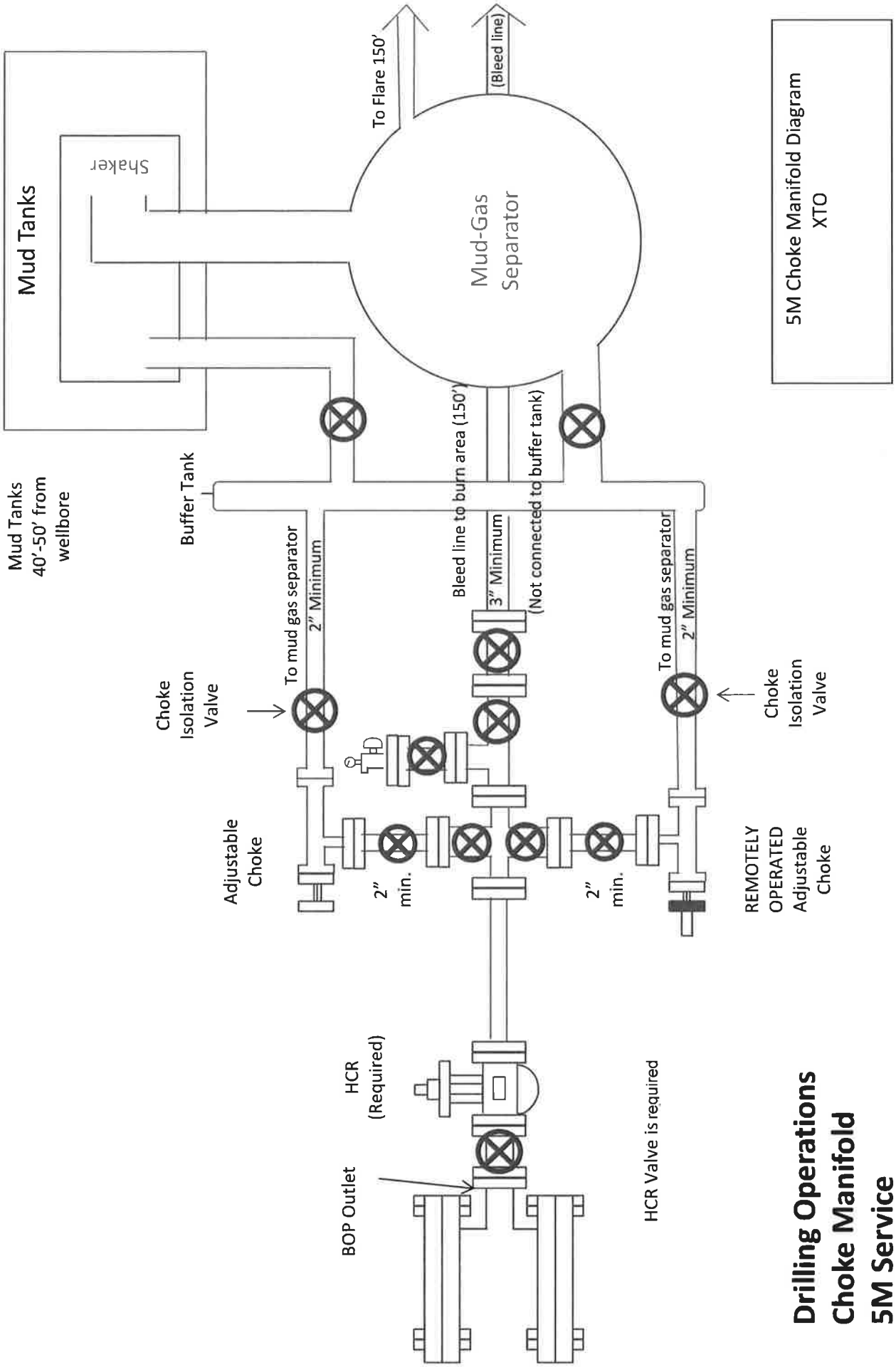
Other proposed operations facets description:

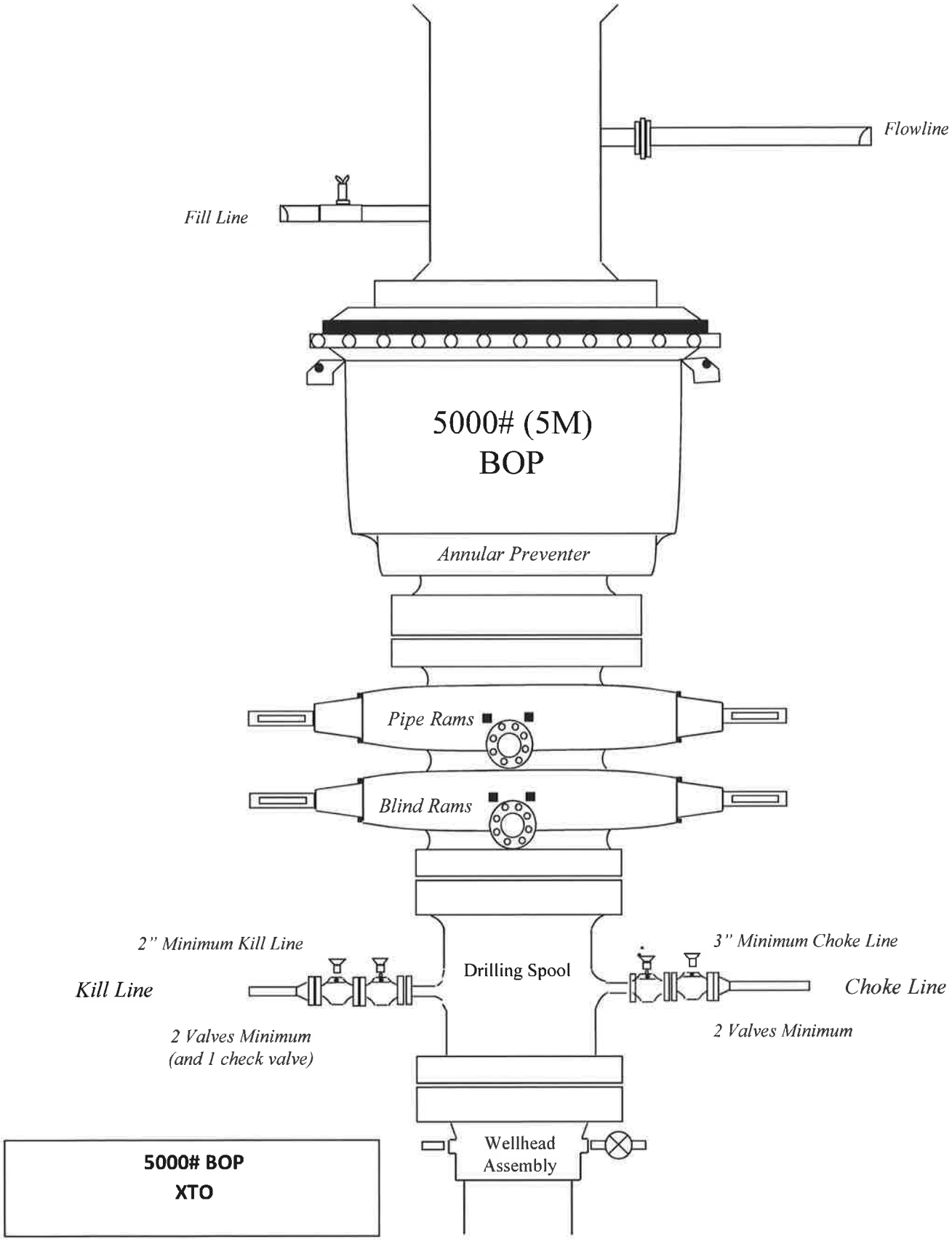
Other proposed operations facets attachment:

PLU_28_21_BS_GCP_20201226061229.pdf

Other Variance attachment:

PLU_28_21_BS_BOP_BTV_20201226061242.pdf
PLU_28_21_BS_BatchSpud_20201226061236.pdf
PLU_28_21_BS_MBS_20201226061434.pdf
PLU_28_21_BS_OFCV_20201226061250.pdf


Mud Tanks
Shaker
Mud-Gas Separator
To Flare 150'
(Bleed line)
5M Choke Manifold Diagram
XTO
Mud Tanks 40'-50' from wellbore
Buffer Tank
Bleed line to burn area (150')
3" Minimum
(Not connected to buffer tank)
To mud gas separator
2" Minimum
Choke Isolation Valve
Adjustable Choke
2" min.
REMOTELY OPERATED Adjustable Choke
HCR (Required)
BOP Outlet
HCR Valve is required
Drilling Operations
Choke Manifold
5M Service


Flowline
Fill Line
5000# (5M)
BOP
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
3" Minimum Choke Line
Kill Line
Drilling Spool
Choke Line
2 Valves Minimum
(and 1 check valve)
2 Valves Minimum
Wellhead
Assembly
5000# BOP
XTO

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 1180'	11-3/4"	47	BTC	J-55	New	1.17	2.46	8.60
10-5/8"	0' – 10600'	8-5/8"	32	BTC	HCL-80	New	1.10	1.43	2.16
7-7/8"	0' – 20070'	5-1/2"	20	BTC	P-110	New	1.18	1.48	2.29

- XTO requests to not utilize centralizers in the curve and lateral

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

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

XTO Energy

Eddy County, NM (NAD-27)
Poker Lake Unit 28-21 Big Sinks
#125H

Wellbore #1

Plan: PERMIT

Standard Planning Report

05 December, 2020

XTO ENERGY

Project: Eddy County, NM (NAD-27)
Site: Poker Lake Unit 28-21 Big Sinks
Well: #125H
Wellbore: Wellbore #1
Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)

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

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PLU28-21BS #125H: SHL (549' FNL & 2005' FEL)	0.00	0.00	0.00	403061.10	671180.80	32.1069245	-103.7804890	Point
PLU28-21BS #125H: FTP/ LP	11879.00	-1762.30	-429.60	401298.80	670751.00	32.1020861	-103.7819061	Point
PLU28-21BS #125H: LTP	11879.00	5744.50	-430.20	408805.60	670750.60	32.1227217	-103.7817834	Point
PLU28-21BS #125H: PBHL (50' FNL & 2435' FEL)	11879.00	5794.50	-430.30	408855.60	670750.50	32.1228591	-103.7817828	Point

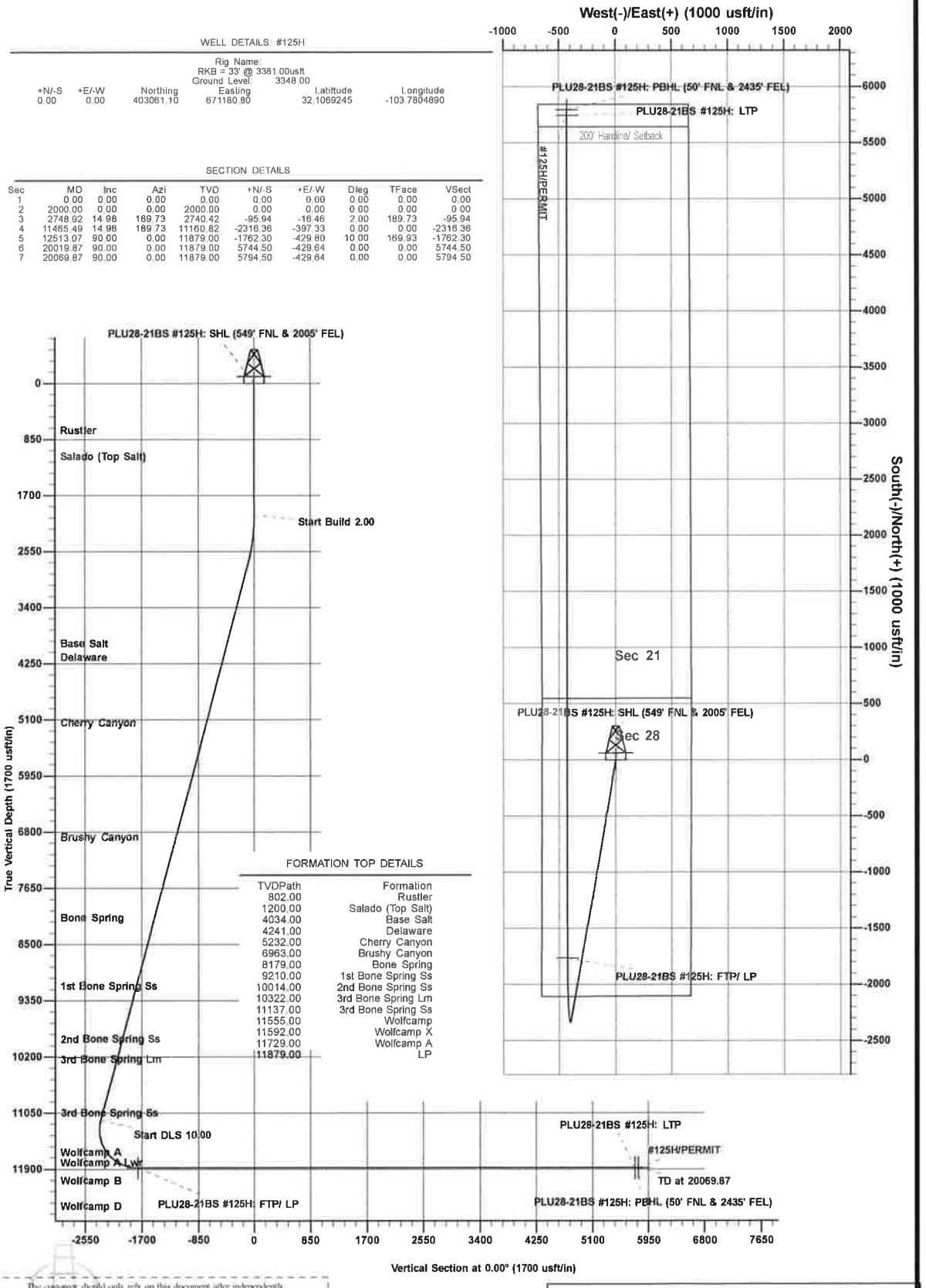
WELL DETAILS: #125H

Rig Name
RKB = 33' @ 3381.00usft
Ground Level: 3348.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	403061.10	671180.80	32.1069245	-103.7804890

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
3	2748.92	14.98	189.73	2740.42	-95.94	-16.46	2.00	189.73	-95.94
4	11485.49	14.98	189.73	11160.82	-2316.36	-397.33	0.00	0.00	-2316.36
5	12513.07	90.00	0.00	11879.00	-1762.30	-429.80	10.00	169.93	-1762.30
6	20019.87	90.00	0.00	11879.00	5744.50	-429.64	0.00	0.00	5744.50
7	20069.87	90.00	0.00	11879.00	5794.50	-429.64	0.00	0.00	5794.50



FORMATION TOP DETAILS

TVDPath	Formation
802.00	Rustler
1200.00	Salado (Top Salt)
4034.00	Base Salt
4241.00	Delaware
5232.00	Cherry Canyon
6963.00	Brushy Canyon
8179.00	Bone Spring
9210.00	1st Bone Spring Ss
10014.00	2nd Bone Spring Ss
10322.00	3rd Bone Spring Lm
11137.00	3rd Bone Spring Ss
11555.00	Wolfcamp
11592.00	Wolfcamp X
11729.00	Wolfcamp A
11879.00	LP

Plan: PERMIT (#125H/Wellbore #1)
Created By: Matthew May Date: 8:48, December 05 2020

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 33' @ 3381.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 33' @ 3381.00usft
Site:	Poker Lake Unit 28-21 Big Sinks	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Project	Eddy County, NM (NAD-27)		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Poker Lake Unit 28-21 Big Sinks				
Site Position:		**Northing:**	402,096.80 usft	**Latitude:**	32.1043077
From:	Map	**Easting:**	668,754.10 usft	**Longitude:**	-103.7883417
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.29 °

Well	#125H					
Well Position	**+N/-S**	964.30 usft	**Northing:**	403,061.10 usft	**Latitude:**	32.1069245
	+E/-W	2,426.70 usft	**Easting:**	671,180.80 usft	**Longitude:**	-103.7804890
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,348.00 usft

Wellbore	Wellbore #1			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	12/03/20	6.70	59.78	47,459

Design	PERMIT			
Audit Notes:				
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

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

Plan 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
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	0.00	0.00	0.00	0.00	0.00	
2,748.92	14.98	189.73	2,740.42	-95.94	-16.46	2.00	2.00	0.00	189.73	
11,465.49	14.98	189.73	11,160.82	-2,316.36	-397.33	0.00	0.00	0.00	0.00	
12,513.07	90.00	0.00	11,879.00	-1,762.30	-429.80	10.00	7.16	16.25	169.93	PLU28-21BS #125H
20,019.87	90.00	0.00	11,879.00	5,744.50	-429.64	0.00	0.00	0.00	0.00	PLU28-21BS #125H
20,069.87	90.00	0.00	11,879.00	5,794.50	-429.64	0.00	0.00	0.00	0.00	PLU28-21BS #125H

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 33' @ 3381.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 33' @ 3381.00usft
Site:	Poker Lake Unit 28-21 Big Sinks	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

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
100.00	0.00	0.00	100.00	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
300.00	0.00	0.00	300.00	0.00	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
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
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	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00
2,100.00	2.00	189.73	2,099.98	-1.72	-0.30	-1.72	2.00	2.00	0.00
2,200.00	4.00	189.73	2,199.84	-6.88	-1.18	-6.88	2.00	2.00	0.00
2,300.00	6.00	189.73	2,299.45	-15.47	-2.65	-15.47	2.00	2.00	0.00
2,400.00	8.00	189.73	2,398.70	-27.48	-4.71	-27.48	2.00	2.00	0.00
2,500.00	10.00	189.73	2,497.47	-42.90	-7.36	-42.90	2.00	2.00	0.00
2,600.00	12.00	189.73	2,595.62	-61.70	-10.58	-61.70	2.00	2.00	0.00
2,700.00	14.00	189.73	2,693.06	-83.87	-14.39	-83.87	2.00	2.00	0.00
2,748.92	14.98	189.73	2,740.42	-95.94	-16.46	-95.94	2.00	2.00	0.00
2,800.00	14.98	189.73	2,789.76	-108.95	-18.69	-108.95	0.00	0.00	0.00
2,900.00	14.98	189.73	2,886.37	-134.42	-23.06	-134.42	0.00	0.00	0.00
3,000.00	14.98	189.73	2,982.97	-159.89	-27.43	-159.89	0.00	0.00	0.00
3,100.00	14.98	189.73	3,079.57	-185.37	-31.80	-185.37	0.00	0.00	0.00
3,200.00	14.98	189.73	3,176.17	-210.84	-36.17	-210.84	0.00	0.00	0.00
3,300.00	14.98	189.73	3,272.77	-236.31	-40.54	-236.31	0.00	0.00	0.00
3,400.00	14.98	189.73	3,369.38	-261.79	-44.91	-261.79	0.00	0.00	0.00
3,500.00	14.98	189.73	3,465.98	-287.26	-49.27	-287.26	0.00	0.00	0.00
3,600.00	14.98	189.73	3,562.58	-312.74	-53.64	-312.74	0.00	0.00	0.00
3,700.00	14.98	189.73	3,659.18	-338.21	-58.01	-338.21	0.00	0.00	0.00
3,800.00	14.98	189.73	3,755.79	-363.68	-62.38	-363.68	0.00	0.00	0.00
3,900.00	14.98	189.73	3,852.39	-389.16	-66.75	-389.16	0.00	0.00	0.00
4,000.00	14.98	189.73	3,948.99	-414.63	-71.12	-414.63	0.00	0.00	0.00
4,100.00	14.98	189.73	4,045.59	-440.10	-75.49	-440.10	0.00	0.00	0.00
4,200.00	14.98	189.73	4,142.20	-465.58	-79.86	-465.58	0.00	0.00	0.00
4,300.00	14.98	189.73	4,238.80	-491.05	-84.23	-491.05	0.00	0.00	0.00
4,400.00	14.98	189.73	4,335.40	-516.52	-88.60	-516.52	0.00	0.00	0.00
4,500.00	14.98	189.73	4,432.00	-542.00	-92.97	-542.00	0.00	0.00	0.00
4,600.00	14.98	189.73	4,528.60	-567.47	-97.34	-567.47	0.00	0.00	0.00
4,700.00	14.98	189.73	4,625.21	-592.94	-101.71	-592.94	0.00	0.00	0.00
4,800.00	14.98	189.73	4,721.81	-618.42	-106.08	-618.42	0.00	0.00	0.00
4,900.00	14.98	189.73	4,818.41	-643.89	-110.45	-643.89	0.00	0.00	0.00
5,000.00	14.98	189.73	4,915.01	-669.37	-114.82	-669.37	0.00	0.00	0.00
5,100.00	14.98	189.73	5,011.62	-694.84	-119.19	-694.84	0.00	0.00	0.00
5,200.00	14.98	189.73	5,108.22	-720.31	-123.56	-720.31	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 33' @ 3381.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 33' @ 3381.00usft
Site:	Poker Lake Unit 28-21 Big Sinks	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

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)
5,300.00	14.98	189.73	5,204.82	-745.79	-127.93	-745.79	0.00	0.00	0.00
5,400.00	14.98	189.73	5,301.42	-771.26	-132.30	-771.26	0.00	0.00	0.00
5,500.00	14.98	189.73	5,398.03	-796.73	-136.67	-796.73	0.00	0.00	0.00
5,600.00	14.98	189.73	5,494.63	-822.21	-141.04	-822.21	0.00	0.00	0.00
5,700.00	14.98	189.73	5,591.23	-847.68	-145.40	-847.68	0.00	0.00	0.00
5,800.00	14.98	189.73	5,687.83	-873.15	-149.77	-873.15	0.00	0.00	0.00
5,900.00	14.98	189.73	5,784.43	-898.63	-154.14	-898.63	0.00	0.00	0.00
6,000.00	14.98	189.73	5,881.04	-924.10	-158.51	-924.10	0.00	0.00	0.00
6,100.00	14.98	189.73	5,977.64	-949.58	-162.88	-949.58	0.00	0.00	0.00
6,200.00	14.98	189.73	6,074.24	-975.05	-167.25	-975.05	0.00	0.00	0.00
6,300.00	14.98	189.73	6,170.84	-1,000.52	-171.62	-1,000.52	0.00	0.00	0.00
6,400.00	14.98	189.73	6,267.45	-1,026.00	-175.99	-1,026.00	0.00	0.00	0.00
6,500.00	14.98	189.73	6,364.05	-1,051.47	-180.36	-1,051.47	0.00	0.00	0.00
6,600.00	14.98	189.73	6,460.65	-1,076.94	-184.73	-1,076.94	0.00	0.00	0.00
6,700.00	14.98	189.73	6,557.25	-1,102.42	-189.10	-1,102.42	0.00	0.00	0.00
6,800.00	14.98	189.73	6,653.86	-1,127.89	-193.47	-1,127.89	0.00	0.00	0.00
6,900.00	14.98	189.73	6,750.46	-1,153.36	-197.84	-1,153.36	0.00	0.00	0.00
7,000.00	14.98	189.73	6,847.06	-1,178.84	-202.21	-1,178.84	0.00	0.00	0.00
7,100.00	14.98	189.73	6,943.66	-1,204.31	-206.58	-1,204.31	0.00	0.00	0.00
7,200.00	14.98	189.73	7,040.26	-1,229.78	-210.95	-1,229.78	0.00	0.00	0.00
7,300.00	14.98	189.73	7,136.87	-1,255.26	-215.32	-1,255.26	0.00	0.00	0.00
7,400.00	14.98	189.73	7,233.47	-1,280.73	-219.69	-1,280.73	0.00	0.00	0.00
7,500.00	14.98	189.73	7,330.07	-1,306.21	-224.06	-1,306.21	0.00	0.00	0.00
7,600.00	14.98	189.73	7,426.67	-1,331.68	-228.43	-1,331.68	0.00	0.00	0.00
7,700.00	14.98	189.73	7,523.28	-1,357.15	-232.80	-1,357.15	0.00	0.00	0.00
7,800.00	14.98	189.73	7,619.88	-1,382.63	-237.17	-1,382.63	0.00	0.00	0.00
7,900.00	14.98	189.73	7,716.48	-1,408.10	-241.54	-1,408.10	0.00	0.00	0.00
8,000.00	14.98	189.73	7,813.08	-1,433.57	-245.90	-1,433.57	0.00	0.00	0.00
8,100.00	14.98	189.73	7,909.69	-1,459.05	-250.27	-1,459.05	0.00	0.00	0.00
8,200.00	14.98	189.73	8,006.29	-1,484.52	-254.64	-1,484.52	0.00	0.00	0.00
8,300.00	14.98	189.73	8,102.89	-1,509.99	-259.01	-1,509.99	0.00	0.00	0.00
8,400.00	14.98	189.73	8,199.49	-1,535.47	-263.38	-1,535.47	0.00	0.00	0.00
8,500.00	14.98	189.73	8,296.09	-1,560.94	-267.75	-1,560.94	0.00	0.00	0.00
8,600.00	14.98	189.73	8,392.70	-1,586.41	-272.12	-1,586.41	0.00	0.00	0.00
8,700.00	14.98	189.73	8,489.30	-1,611.89	-276.49	-1,611.89	0.00	0.00	0.00
8,800.00	14.98	189.73	8,585.90	-1,637.36	-280.86	-1,637.36	0.00	0.00	0.00
8,900.00	14.98	189.73	8,682.50	-1,662.84	-285.23	-1,662.84	0.00	0.00	0.00
9,000.00	14.98	189.73	8,779.11	-1,688.31	-289.60	-1,688.31	0.00	0.00	0.00
9,100.00	14.98	189.73	8,875.71	-1,713.78	-293.97	-1,713.78	0.00	0.00	0.00
9,200.00	14.98	189.73	8,972.31	-1,739.26	-298.34	-1,739.26	0.00	0.00	0.00
9,300.00	14.98	189.73	9,068.91	-1,764.73	-302.71	-1,764.73	0.00	0.00	0.00
9,400.00	14.98	189.73	9,165.51	-1,790.20	-307.08	-1,790.20	0.00	0.00	0.00
9,500.00	14.98	189.73	9,262.12	-1,815.68	-311.45	-1,815.68	0.00	0.00	0.00
9,600.00	14.98	189.73	9,358.72	-1,841.15	-315.82	-1,841.15	0.00	0.00	0.00
9,700.00	14.98	189.73	9,455.32	-1,866.62	-320.19	-1,866.62	0.00	0.00	0.00
9,800.00	14.98	189.73	9,551.92	-1,892.10	-324.56	-1,892.10	0.00	0.00	0.00
9,900.00	14.98	189.73	9,648.53	-1,917.57	-328.93	-1,917.57	0.00	0.00	0.00
10,000.00	14.98	189.73	9,745.13	-1,943.04	-333.30	-1,943.04	0.00	0.00	0.00
10,100.00	14.98	189.73	9,841.73	-1,968.52	-337.67	-1,968.52	0.00	0.00	0.00
10,200.00	14.98	189.73	9,938.33	-1,993.99	-342.03	-1,993.99	0.00	0.00	0.00
10,300.00	14.98	189.73	10,034.94	-2,019.47	-346.40	-2,019.47	0.00	0.00	0.00
10,400.00	14.98	189.73	10,131.54	-2,044.94	-350.77	-2,044.94	0.00	0.00	0.00
10,500.00	14.98	189.73	10,228.14	-2,070.41	-355.14	-2,070.41	0.00	0.00	0.00
10,600.00	14.98	189.73	10,324.74	-2,095.89	-359.51	-2,095.89	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 33' @ 3381.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 33' @ 3381.00usft
Site:	Poker Lake Unit 28-21 Big Sinks	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

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)
10,700.00	14.98	189.73	10,421.34	-2,121.36	-363.88	-2,121.36	0.00	0.00	0.00
10,800.00	14.98	189.73	10,517.95	-2,146.83	-368.25	-2,146.83	0.00	0.00	0.00
10,900.00	14.98	189.73	10,614.55	-2,172.31	-372.62	-2,172.31	0.00	0.00	0.00
11,000.00	14.98	189.73	10,711.15	-2,197.78	-376.99	-2,197.78	0.00	0.00	0.00
11,100.00	14.98	189.73	10,807.75	-2,223.25	-381.36	-2,223.25	0.00	0.00	0.00
11,200.00	14.98	189.73	10,904.36	-2,248.73	-385.73	-2,248.73	0.00	0.00	0.00
11,300.00	14.98	189.73	11,000.96	-2,274.20	-390.10	-2,274.20	0.00	0.00	0.00
11,400.00	14.98	189.73	11,097.56	-2,299.67	-394.47	-2,299.67	0.00	0.00	0.00
11,465.49	14.98	189.73	11,160.82	-2,316.36	-397.33	-2,316.36	0.00	0.00	0.00
11,500.00	11.60	192.73	11,194.41	-2,324.14	-398.85	-2,324.14	10.00	-9.80	8.70
11,550.00	6.82	202.24	11,243.75	-2,331.79	-401.08	-2,331.79	10.00	-9.56	19.00
11,600.00	2.90	243.21	11,293.57	-2,335.11	-403.34	-2,335.11	10.00	-7.83	81.95
11,650.00	4.51	325.01	11,343.50	-2,334.07	-405.59	-2,334.07	10.00	3.22	163.60
11,700.00	9.07	343.54	11,393.14	-2,328.68	-407.84	-2,328.68	10.00	9.12	37.06
11,750.00	13.93	349.50	11,442.12	-2,318.97	-410.05	-2,318.97	10.00	9.73	11.91
11,800.00	18.87	352.40	11,490.07	-2,305.03	-412.22	-2,305.03	10.00	9.87	5.80
11,850.00	23.83	354.12	11,536.63	-2,286.96	-414.33	-2,286.96	10.00	9.92	3.46
11,900.00	28.80	355.28	11,581.44	-2,264.90	-416.35	-2,264.90	10.00	9.95	2.32
11,950.00	33.78	356.12	11,624.15	-2,239.01	-418.28	-2,239.01	10.00	9.96	1.68
12,000.00	38.77	356.77	11,664.45	-2,209.50	-420.11	-2,209.50	10.00	9.97	1.30
12,050.00	43.75	357.29	11,702.02	-2,176.58	-421.80	-2,176.58	10.00	9.98	1.04
12,100.00	48.74	357.73	11,736.59	-2,140.50	-423.37	-2,140.50	10.00	9.98	0.87
12,150.00	53.74	358.10	11,767.88	-2,101.55	-424.78	-2,101.55	10.00	9.98	0.74
12,200.00	58.73	358.43	11,795.66	-2,060.02	-426.04	-2,060.02	10.00	9.99	0.65
12,250.00	63.72	358.72	11,819.72	-2,016.22	-427.12	-2,016.22	10.00	9.99	0.59
12,300.00	68.72	358.99	11,839.88	-1,970.49	-428.04	-1,970.49	10.00	9.99	0.54
12,350.00	73.71	359.24	11,855.98	-1,923.17	-428.76	-1,923.17	10.00	9.99	0.50
12,400.00	78.70	359.48	11,867.89	-1,874.63	-429.30	-1,874.63	10.00	9.99	0.48
12,450.00	83.70	359.72	11,875.54	-1,825.24	-429.64	-1,825.24	10.00	9.99	0.46
12,500.00	88.69	359.94	11,878.85	-1,775.37	-429.79	-1,775.37	10.00	9.99	0.45
12,513.07	90.00	0.00	11,879.00	-1,762.30	-429.80	-1,762.30	10.00	9.99	0.45
12,600.00	90.00	0.00	11,879.00	-1,675.37	-429.80	-1,675.37	0.00	0.00	0.00
12,700.00	90.00	0.00	11,879.00	-1,575.37	-429.80	-1,575.37	0.00	0.00	0.00
12,800.00	90.00	0.00	11,879.00	-1,475.37	-429.79	-1,475.37	0.00	0.00	0.00
12,900.00	90.00	0.00	11,879.00	-1,375.37	-429.79	-1,375.37	0.00	0.00	0.00
13,000.00	90.00	0.00	11,879.00	-1,275.37	-429.79	-1,275.37	0.00	0.00	0.00
13,100.00	90.00	0.00	11,879.00	-1,175.37	-429.79	-1,175.37	0.00	0.00	0.00
13,200.00	90.00	0.00	11,879.00	-1,075.37	-429.79	-1,075.37	0.00	0.00	0.00
13,300.00	90.00	0.00	11,879.00	-975.37	-429.78	-975.37	0.00	0.00	0.00
13,400.00	90.00	0.00	11,879.00	-875.37	-429.78	-875.37	0.00	0.00	0.00
13,500.00	90.00	0.00	11,879.00	-775.37	-429.78	-775.37	0.00	0.00	0.00
13,600.00	90.00	0.00	11,879.00	-675.37	-429.78	-675.37	0.00	0.00	0.00
13,700.00	90.00	0.00	11,879.00	-575.37	-429.77	-575.37	0.00	0.00	0.00
13,800.00	90.00	0.00	11,879.00	-475.37	-429.77	-475.37	0.00	0.00	0.00
13,900.00	90.00	0.00	11,879.00	-375.37	-429.77	-375.37	0.00	0.00	0.00
14,000.00	90.00	0.00	11,879.00	-275.37	-429.77	-275.37	0.00	0.00	0.00
14,100.00	90.00	0.00	11,879.00	-175.37	-429.77	-175.37	0.00	0.00	0.00
14,200.00	90.00	0.00	11,879.00	-75.37	-429.76	-75.37	0.00	0.00	0.00
14,300.00	90.00	0.00	11,879.00	24.63	-429.76	24.63	0.00	0.00	0.00
14,400.00	90.00	0.00	11,879.00	124.63	-429.76	124.63	0.00	0.00	0.00
14,500.00	90.00	0.00	11,879.00	224.63	-429.76	224.63	0.00	0.00	0.00
14,600.00	90.00	0.00	11,879.00	324.63	-429.76	324.63	0.00	0.00	0.00
14,700.00	90.00	0.00	11,879.00	424.63	-429.75	424.63	0.00	0.00	0.00
14,800.00	90.00	0.00	11,879.00	524.63	-429.75	524.63	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 33' @ 3381.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 33' @ 3381.00usft
Site:	Poker Lake Unit 28-21 Big Sinks	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

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)
14,900.00	90.00	0.00	11,879.00	624.63	-429.75	624.63	0.00	0.00	0.00
15,000.00	90.00	0.00	11,879.00	724.63	-429.75	724.63	0.00	0.00	0.00
15,100.00	90.00	0.00	11,879.00	824.63	-429.75	824.63	0.00	0.00	0.00
15,200.00	90.00	0.00	11,879.00	924.63	-429.74	924.63	0.00	0.00	0.00
15,300.00	90.00	0.00	11,879.00	1,024.63	-429.74	1,024.63	0.00	0.00	0.00
15,400.00	90.00	0.00	11,879.00	1,124.63	-429.74	1,124.63	0.00	0.00	0.00
15,500.00	90.00	0.00	11,879.00	1,224.63	-429.74	1,224.63	0.00	0.00	0.00
15,600.00	90.00	0.00	11,879.00	1,324.63	-429.73	1,324.63	0.00	0.00	0.00
15,700.00	90.00	0.00	11,879.00	1,424.63	-429.73	1,424.63	0.00	0.00	0.00
15,800.00	90.00	0.00	11,879.00	1,524.63	-429.73	1,524.63	0.00	0.00	0.00
15,900.00	90.00	0.00	11,879.00	1,624.63	-429.73	1,624.63	0.00	0.00	0.00
16,000.00	90.00	0.00	11,879.00	1,724.63	-429.73	1,724.63	0.00	0.00	0.00
16,100.00	90.00	0.00	11,879.00	1,824.63	-429.72	1,824.63	0.00	0.00	0.00
16,200.00	90.00	0.00	11,879.00	1,924.63	-429.72	1,924.63	0.00	0.00	0.00
16,300.00	90.00	0.00	11,879.00	2,024.63	-429.72	2,024.63	0.00	0.00	0.00
16,400.00	90.00	0.00	11,879.00	2,124.63	-429.72	2,124.63	0.00	0.00	0.00
16,500.00	90.00	0.00	11,879.00	2,224.63	-429.72	2,224.63	0.00	0.00	0.00
16,600.00	90.00	0.00	11,879.00	2,324.63	-429.71	2,324.63	0.00	0.00	0.00
16,700.00	90.00	0.00	11,879.00	2,424.63	-429.71	2,424.63	0.00	0.00	0.00
16,800.00	90.00	0.00	11,879.00	2,524.63	-429.71	2,524.63	0.00	0.00	0.00
16,900.00	90.00	0.00	11,879.00	2,624.63	-429.71	2,624.63	0.00	0.00	0.00
17,000.00	90.00	0.00	11,879.00	2,724.63	-429.71	2,724.63	0.00	0.00	0.00
17,100.00	90.00	0.00	11,879.00	2,824.63	-429.70	2,824.63	0.00	0.00	0.00
17,200.00	90.00	0.00	11,879.00	2,924.63	-429.70	2,924.63	0.00	0.00	0.00
17,300.00	90.00	0.00	11,879.00	3,024.63	-429.70	3,024.63	0.00	0.00	0.00
17,400.00	90.00	0.00	11,879.00	3,124.63	-429.70	3,124.63	0.00	0.00	0.00
17,500.00	90.00	0.00	11,879.00	3,224.63	-429.69	3,224.63	0.00	0.00	0.00
17,600.00	90.00	0.00	11,879.00	3,324.63	-429.69	3,324.63	0.00	0.00	0.00
17,700.00	90.00	0.00	11,879.00	3,424.63	-429.69	3,424.63	0.00	0.00	0.00
17,800.00	90.00	0.00	11,879.00	3,524.63	-429.69	3,524.63	0.00	0.00	0.00
17,900.00	90.00	0.00	11,879.00	3,624.63	-429.69	3,624.63	0.00	0.00	0.00
18,000.00	90.00	0.00	11,879.00	3,724.63	-429.68	3,724.63	0.00	0.00	0.00
18,100.00	90.00	0.00	11,879.00	3,824.63	-429.68	3,824.63	0.00	0.00	0.00
18,200.00	90.00	0.00	11,879.00	3,924.63	-429.68	3,924.63	0.00	0.00	0.00
18,300.00	90.00	0.00	11,879.00	4,024.63	-429.68	4,024.63	0.00	0.00	0.00
18,400.00	90.00	0.00	11,879.00	4,124.63	-429.68	4,124.63	0.00	0.00	0.00
18,500.00	90.00	0.00	11,879.00	4,224.63	-429.67	4,224.63	0.00	0.00	0.00
18,600.00	90.00	0.00	11,879.00	4,324.63	-429.67	4,324.63	0.00	0.00	0.00
18,700.00	90.00	0.00	11,879.00	4,424.63	-429.67	4,424.63	0.00	0.00	0.00
18,800.00	90.00	0.00	11,879.00	4,524.63	-429.67	4,524.63	0.00	0.00	0.00
18,900.00	90.00	0.00	11,879.00	4,624.63	-429.67	4,624.63	0.00	0.00	0.00
19,000.00	90.00	0.00	11,879.00	4,724.63	-429.66	4,724.63	0.00	0.00	0.00
19,100.00	90.00	0.00	11,879.00	4,824.63	-429.66	4,824.63	0.00	0.00	0.00
19,200.00	90.00	0.00	11,879.00	4,924.63	-429.66	4,924.63	0.00	0.00	0.00
19,300.00	90.00	0.00	11,879.00	5,024.63	-429.66	5,024.63	0.00	0.00	0.00
19,400.00	90.00	0.00	11,879.00	5,124.63	-429.65	5,124.63	0.00	0.00	0.00
19,500.00	90.00	0.00	11,879.00	5,224.63	-429.65	5,224.63	0.00	0.00	0.00
19,600.00	90.00	0.00	11,879.00	5,324.63	-429.65	5,324.63	0.00	0.00	0.00
19,700.00	90.00	0.00	11,879.00	5,424.63	-429.65	5,424.63	0.00	0.00	0.00
19,800.00	90.00	0.00	11,879.00	5,524.63	-429.65	5,524.63	0.00	0.00	0.00
19,900.00	90.00	0.00	11,879.00	5,624.63	-429.64	5,624.63	0.00	0.00	0.00
20,000.00	90.00	0.00	11,879.00	5,724.63	-429.64	5,724.63	0.00	0.00	0.00
20,019.87	90.00	0.00	11,879.00	5,744.50	-429.64	5,744.50	0.00	0.00	0.00
20,069.87	90.00	0.00	11,879.00	5,794.50	-429.64	5,794.50	0.00	0.00	0.00

XTO ENERGY

Planning Report

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #125H
Company:	XTO Energy	**TVD Reference:**	RKB = 33' @ 3381.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	RKB = 33' @ 3381.00usft
Site:	Poker Lake Unit 28-21 Big Sinks	**North Reference:**	Grid
Well:	#125H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

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)

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU28-21BS #125H: - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	403,061.10	671,180.80	32.1069245	-103.7804890
PLU28-21BS #125H: - plan hits target center - Point	0.00	0.00	11,879.00	-1,762.30	-429.80	401,298.80	670,751.00	32.1020861	-103.7819061
PLU28-21BS #125H: - plan misses target center by 0.56usft at 20019.87usft MD (11879.00 TVD, 5744.50 N, -429.64 E) - Point	0.00	0.00	11,879.00	5,744.50	-430.20	408,805.60	670,750.60	32.1227217	-103.7817833
PLU28-21BS #125H: - plan misses target center by 0.66usft at 20069.87usft MD (11879.00 TVD, 5794.50 N, -429.64 E) - Point	0.00	0.00	11,879.00	5,794.50	-430.30	408,855.60	670,750.50	32.1228591	-103.7817828

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
802.00	802.00	Rustler			
1,200.00	1,200.00	Salado (Top Salt)			
4,088.00	4,034.00	Base Salt			
4,302.28	4,241.00	Delaware			
5,328.14	5,232.00	Cherry Canyon			
7,120.02	6,963.00	Brushy Canyon			
8,378.79	8,179.00	Bone Spring			
9,446.05	9,210.00	1st Bone Spring Ss			
10,278.33	10,014.00	2nd Bone Spring Ss			
10,597.16	10,322.00	3rd Bone Spring Lm			
11,440.83	11,137.00	3rd Bone Spring Ss			
11,870.24	11,555.00	Wolfcamp			
11,912.13	11,592.00	Wolfcamp X			
12,088.62	11,729.00	Wolfcamp A			
12,513.07	11,879.00	LP			

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**XTO Permian Operating, LLC**
LEASE NO.:	**NMLC-062140A**
WELL NAME & NO.:	**Poker Lake Unit 28-21 BS 125H**
SURFACE HOLE FOOTAGE:	**0549' FNL & 2005' FEL**
BOTTOM HOLE FOOTAGE	**0050' FNL & 2430' FEL Sec. 21, T.25 S., R.31 E.**
LOCATION:	**Section 28, T.25 S., R.31 E., NMPM**
COUNTY:	**Eddy County, New Mexico**

COA

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

Medium Cave/Karst
Possibility of water flows in the Salado and Castile.
Possibility of lost circulation in the Red Beds, Rustler, and Delaware.
Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.

A. HYDROGEN SULFIDE

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.

Approval Date: 06/04/2021

B. CASING

1. The **11-3/4** inch surface casing shall be set at approximately **1180** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

    Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

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

    a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
    b. Second stage above DV tool:

        - Cement to surface. If cement does not circulate 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.**

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

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

BOP Break Testing Variance

- Shelll testing is not approved for any portion of the hole with a MASP of 5000 psi or greater.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

D. SPECIAL 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.

GENERAL REQUIREMENTS

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

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

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig
      - Notify the BLM when moving in and removing the Spudder Rig.
      - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
      - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

5. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

6. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

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

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

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

    b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

d. The results of the test shall be reported to the appropriate BLM office.

e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

JAM 05122021

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_2S, 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_2S 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
  - Detection of H_2S, and
  - Measures for protection against the gas,
  - 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_2). 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_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	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	903-521-6477
Milton Turman, Drilling Superintendent	817-524-5107
Jeff Raines, Construction Foreman	432-557-3159
Toady Sanders, EH & S Manager	903-520-1601
Wes McSpadden, Production Foreman	575-441-1147

SHERIFF DEPARTMENTS:

Eddy County	575-887-7551
Lea County	575-396-3611

NEW MEXICO STATE POLICE: 575-392-5588

FIRE DEPARTMENTS: 911

Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359

HOSPITALS: 911

Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359

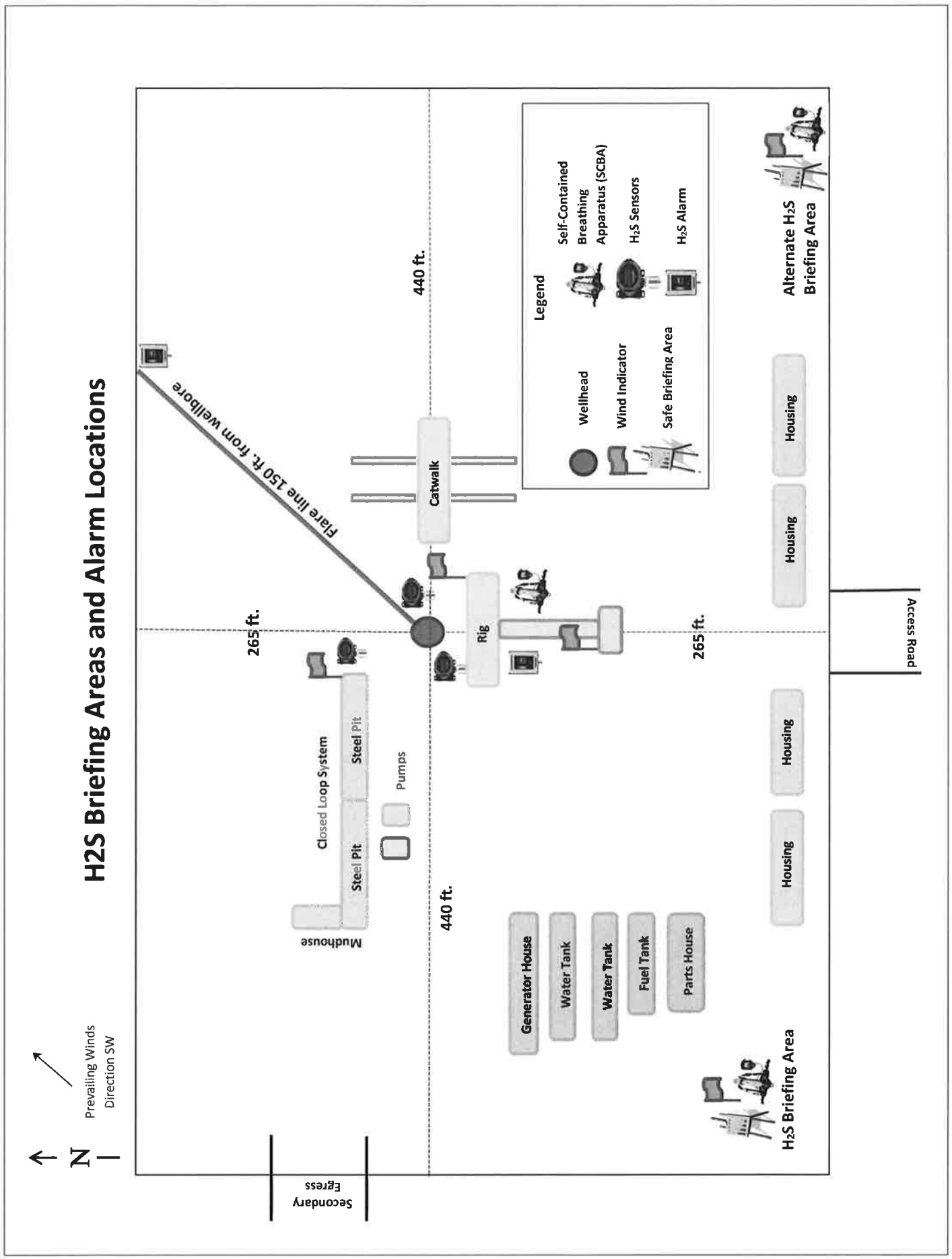
AGENT NOTIFICATIONS:

For Lea County:

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

For Eddy County:

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283


H2S Briefing Areas and Alarm Locations
N
Prevailing Winds
Direction SW
Secondary
Egress
H2S Briefing Area
Generator House
Water Tank
Water Tank
Fuel Tank
Parts House
Mudhouse
Closed Loop System
Steel Pit
Steel Pit
Pumps
Flare line 150 ft. from wellbore
Catwalk
Rig
265 ft.
440 ft.
265 ft.
440 ft.
Housing
Housing
Housing
Housing
Alternate H2S
Briefing Area
Access Road
Legend
Wellhead
Wind Indicator
Safe Briefing Area
Self-Contained
Breathing
Apparatus (SCBA)
H2S Sensors
H2S Alarm

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28-21 BS **Well Number:** 125H

Safe containmant attachment:

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

Disposal type description:

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

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 cutting 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.)**

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 Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

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
District IV
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 166691

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 166691
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require a administrative order for non-standard location prior to placing the well on production	12/19/2022
kpickford	Will require a name change complying with OCD policy prior to putting the well into production.	1/3/2023
kpickford	Notify OCD 24 hours prior to casing & cement	1/3/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/3/2023
kpickford	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	1/3/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	1/3/2023
kpickford	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	1/3/2023