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 NMLC063875A APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. V DRILL la. Type of work: REENTER POKER LAKE / 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 26 BD 104H 2. Name of Operator 9. API Well No. XTO PERMIAN OPERATING LLC 30-015-49413 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 PURPLE SAGE/WOLFCAMP 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 26/T25S/R30E/NMP At surface SENW / 2215 FNL / 1915 FWL / LAT 32.102434 / LONG -103.854241 At proposed prod. zone SESW / 200 FSL / 2486 FWL / LAT 32.07977 / LONG -103.852499 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. 480.0 (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 11205 feet / 18988 feet FED: COB000050 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3312 feet 08/01/2020 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 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) 10/14/2019 Regulatory Coordinator Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) CHRISTOPHER WALLS / Ph: (575) 234-2234 05/19/2020 Title Office Petroleum Engineer 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 pproval Date: 05/19/2020

*(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

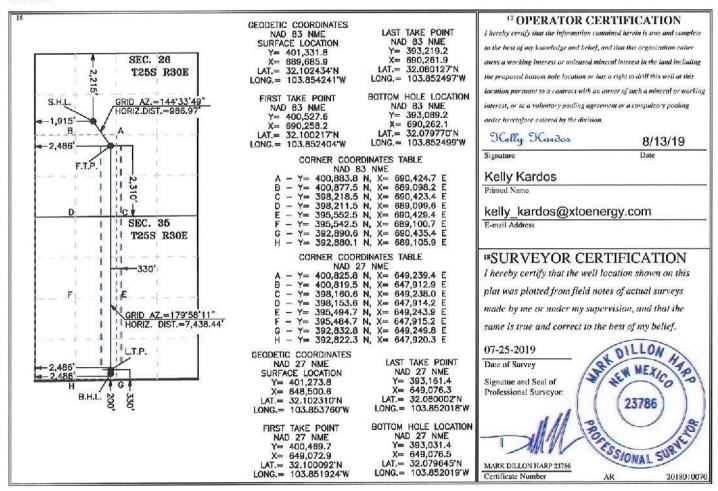
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015 49413	² Pool Code 98220	PURPLE SAGE; WOLFCAMP	ame				
⁴ Property Code 329859	Р	⁵ Property Name POKER LAKE UNIT 26 BD					
⁷ OGRID No. 373075	XTO	⁸ Operator Name PERMIAN OPERATING, LLC.	⁹ Elevation 3,312				

Surface Location

UL or lot no. F	Section 26	Township 25 S	Range 30 E	Lot Idn	Feet from the 2,215	North/South line NORTH	Feet from the 1,915	East/West line WEST	County EDDY
			" Bott	om Hole	Location If I	Different From	Surface		
UL or lot no.	Section 35	Township 25 S	Range 30 E	Lot Idn	Feet from the 200	North/South line SOUTH	Feet from the 2,486	East/West line WEST	County EDDY
12 Dedicated Acre 480	s 13 Joint o	r Infill 14 C	onsolidation Co	ide 15 Orde	er No.	4		·	

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	:_373075	Date: _08/2	.5/2021
II. Type: XOriginal □ An	nendment du	e to □ 19.15.27.9	9.D(6)(a)NMAC □ 19.15.	27.9.D(6)(b) NN	MAC □ Other.	
If Other, please describe:						
III. Well(s): Provide the foll be recompleted from a single				set of wells pro	posed to be drille	d or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Poker Lake Unit 26 BD 104H		F-26-25S-30E	2215'FNL & 1915'FWL	1500	2700	3000
				<u> </u>	<u> </u>	
IV. Central Delivery Point	Name: _PLU	J 26 BD	[See 19.15.27.9(D)(1) NM	IAC]		
V. Anticipated Schedule: Proposed to be recompleted f		•			of wells propose	d to be drilled or

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Poker Lake Unit 26 BD 104H		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

capture requirement IX. Anticipated Na	for the applicable re	eporting area.	cion because Operator is in o	compliance with its statewide natural
Wo		API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natur Gas for the First Year MCF
X. Natural Gas Gat	thering System (NO	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capaci of System Segment Tie-in
production operation the segment or portion XII. Line Capacity	s to the existing or on of the natural gas. The natural gas garom the well prior the company of	planned interconnect of the graph of the state of the graph of the date of first product the does not anticipate that	the natural gas gathering system which the well(s) will be considered will not have capacity to go ion.	aticipated pipeline route(s) connecting em(s), and the maximum daily capacin nected. Eather 100% of the anticipated natural ted to the same segment, or portion, on line pressure caused by the new well

Section 3 - Certifications Effective May 25, 2021

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

 \Box 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: Stephanie Rabadue
Printed Name: Stephanie Rabadue
Title: Regulatory Supervisor
E-mail Address: Stephanie.rabadue@exxonmobil.com
Date: 01/30/2022
Phone: 432-620-6714
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: 10400049291

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

Well Name: POKER LAKE UNIT 26 BD

Drilling Plan Data Report 02/20/2022

Submission Date: 10/14/2019

Highlighted data reflects the most

recent changes Well Number: 104H Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Operator Name: XTO PERMIAN OPERATING LLC

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
561912	PERMIAN	3312	0	0	OTHER: Quaternary	NONE	N
561903	RUSTLER	2362	950	950	SILTSTONE	USEABLE WATER	N
561904	TOP SALT	2212	1100	1100	SALT	OTHER : Produced Water	N
561905	BASE OF SALT	-546	3858	3858	SALT	OTHER : Produced Water	N
561901	DELAWARE	-638	3950	3950	SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	N
561902	BONE SPRING	-4460	7772	7772	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
561920	WOLFCAMP	-7824	11136	11136	SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Υ

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 11205

Equipment: Once the permanent WH is installed on the 13-3/8 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 4235 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

Requesting Variance? YES

Variance request: · XTO requests to not utilize centralizers in the curve and lateral · 9-5/8" Collapse analyzed using 50% evacuation based on regional experience. • 4-1/2" 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 Permanent Wellhead - GE RSH Multibowl System A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set 7" casing and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13 3/8", 5M bradenhead and flange, the BOP test will be limited to

Page 1 of 7

Well Name: POKER LAKE UNIT 26 BD Well Number: 104H

5000 psi. When nippling up on the 7-0", the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU_26_BD_5MCM_20191014092514.pdf

PLU_26_BD_10MCM_20191014092533.pdf

BOP Diagram Attachment:

PLU_26_BD_5MBOP_20191014092546.pdf

PLU_26_BD_5M10M_BOP_20191014092555.pdf

PLU_26_BD_Multi_20191014092837.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	17.5	13.375	NEW	API	N	0	1075	0	1075	3312	2237	1075	J-55	54.5	ST&C	2.32	2.27	BUOY	8.77	DRY	8.77
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	О	3880	0	3880		-568	3880	J-55	40	ST&C	2.11	1.31	DRY	2.91	DRY	2.91
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	11625	0	11625	3500	-8313	11625	P- 110	32	BUTT	1.78	1.31	DRY	2.41	DRY	2.41
4	LINER	6	4.5	NEW	API	N	10590	18988	10590	11205	-7279	-7893	8398	P- 110	13.5	BUTT	1.6	1.31	DRY	2.21	DRY	2.21

Casing Attachments

Well Name: POKER LAKE UNIT 26 BD

Well Number: 104H

Casing Attachments
Casing ID: 1 String Type:SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
PLU_26_BD_104H_Csg_20191014102911.pdf
Casing ID: 2 String Type: INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
PLU_26_BD_104H_Csg_20191014102940.pdf
Casing ID: 3 String Type:PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):

PLU_26_BD_104H_Csg_20191014103005.pdf

Well Name: POKER LAKE UNIT 26 BD Well Number: 104H

Casing Attachments

Casing ID: 4

String Type:LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_26_BD_104H_Csg_20191014103045.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	1075	570	1.87	12.9	1065. 9	100	EconoCem- HLTRRC	none
SURFACE	Tail				300	1.35	14.8	405	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead		0	3880	1030	1.87	12.9	1926. 1	100	EconoCem- HLTRRC	none
INTERMEDIATE	Tail				360	1.35	14.8	486	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	1162 5	1100	1.88	12.9	2068	100	Halcem-C	2% CaCl
PRODUCTION	Tail				220	1.33	14.8	292.6	100	Halcem-C	2% CaCl
LINER	Lead		1059 0	1898 8	580	1.61	13.2	933.8	30	VersaCem	none

Well Name: POKER LAKE UNIT 26 BD Well Number: 104H

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: 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 (ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1059	1120 5	OIL-BASED MUD	11.2	11.5							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
3880	1162 5	OTHER : FW / Cut Brine	8.7	10							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
0	1075	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

Well Name: POKER LAKE UNIT 26 BD

Well Number: 104H

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)	as a closed loop system
1075	3880	OTHER : Brine	9.8	10.2							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 will not be done on this well.

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

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

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6701

Anticipated Surface Pressure: 4235

Anticipated Bottom Hole Temperature(F): 160

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

Describe:

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 attachment:

Well Name: POKER LAKE UNIT 26 BD Well Number: 104H

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

PLU_26_BD_H2S_Dia_2E_20191014095000.pdf PLU_26_BD_H2S_Dia_2W_20191014095011.pdf PLU_26_BD_H2S_Plan_20191014094949.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_26_BD_104H_DD_20191014103323.pdf

Other proposed operations facets description:

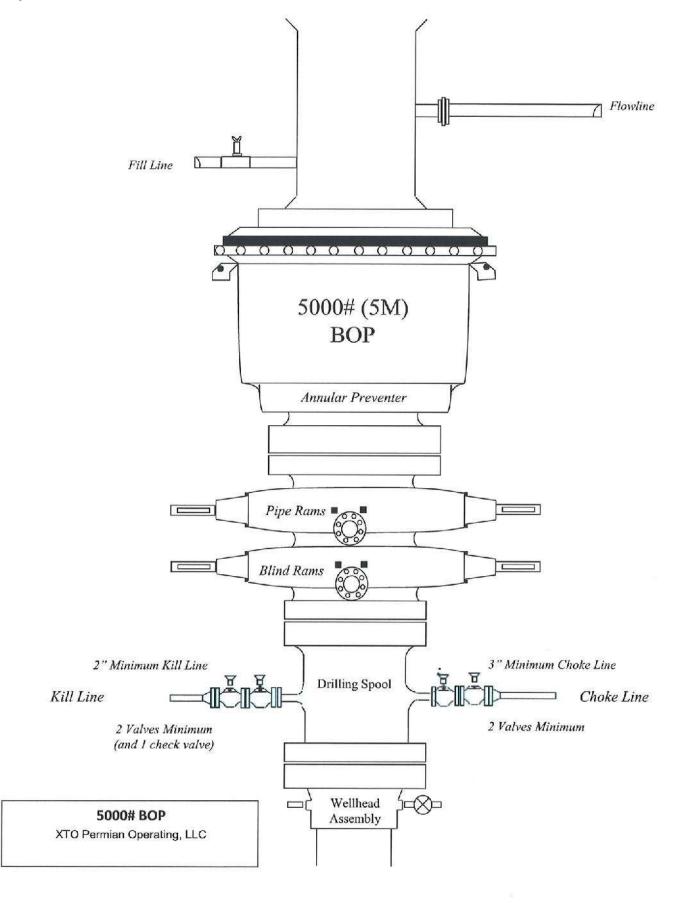
The surface fresh water sands will be protected by setting 13 3/8" inch casing @ 1075' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9-5/8" inch casing at 3880' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7-0" inch casing through the curve at 11625' and bringing TOC back 200' inside the previous shoe. A 6-0" inch lateral hole will be drilled to MD/TD and a 4-1/2 inch liner will be set at TD and cemented.

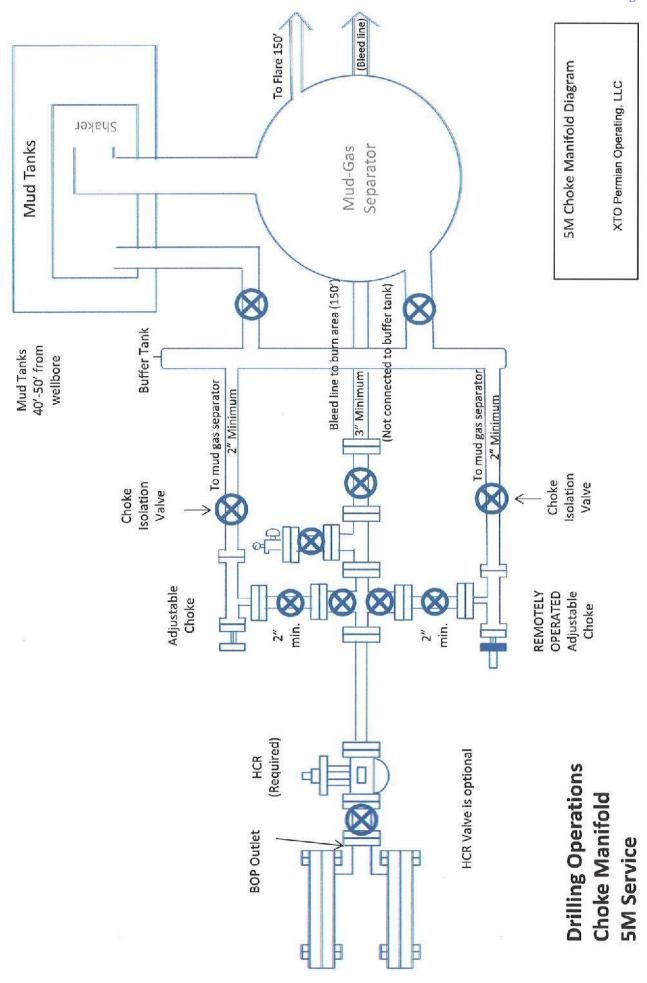
Other proposed operations facets attachment:

PLU_26_BD_GCPE_20191014095133.pdf PLU_26_BD_GCPW_20191014095141.pdf

Other Variance attachment:

PLU_26_BD_FH_20191014095156.pdf PLU_26_BD_WWC_20191014095240.pdf







PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: CTPe&s@gates.cc

WEB: www.gates.com

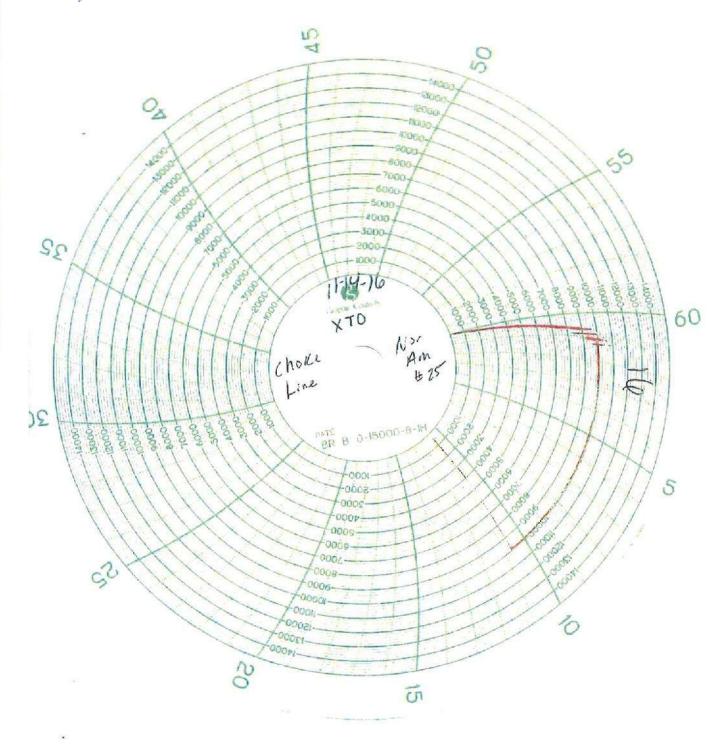
GATES E & S NORTH AMERICA, INC DU-TEX 234 44TH STREET CORPUS CHRISTI, TEXAS 78405

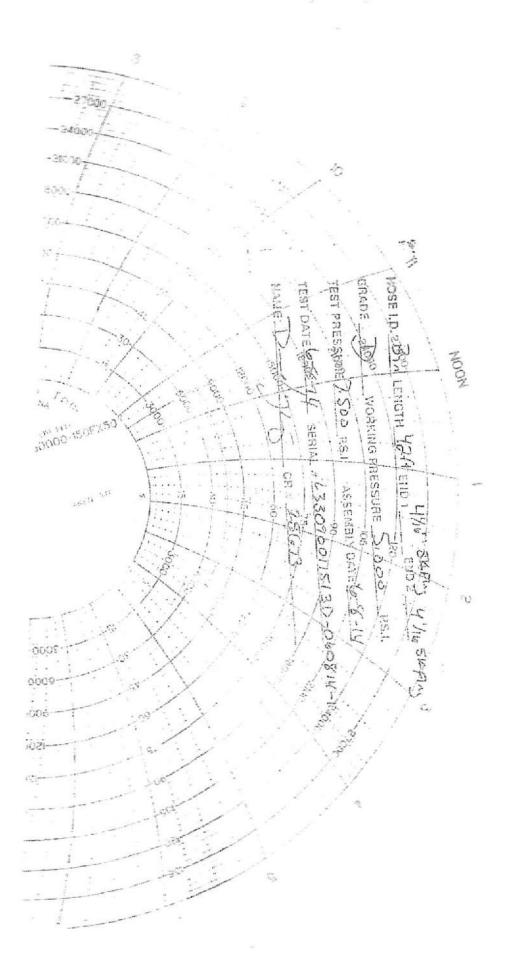
GRADE D PRESSURE TEST CERTIFICATE

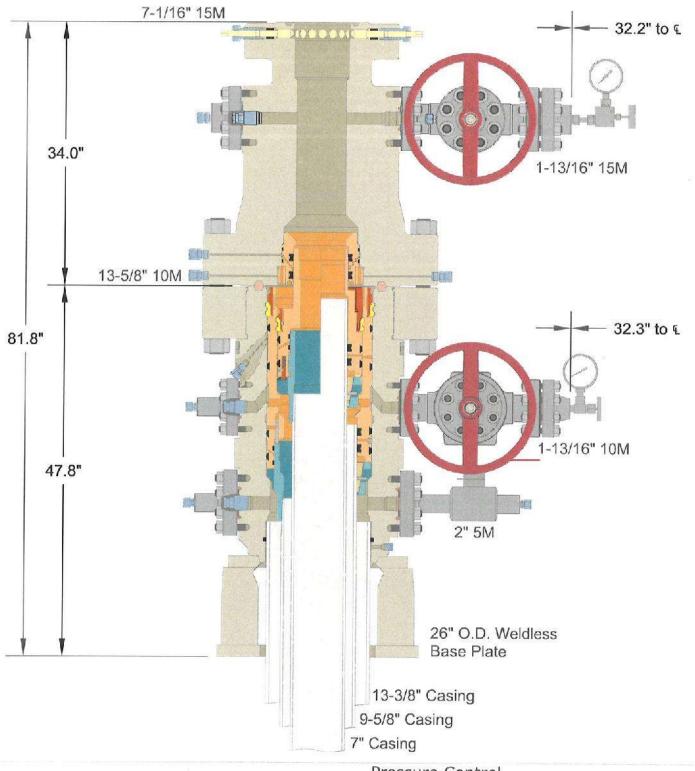
L-+18000-0515110060551	- Test Pressure :	IS4 000,2	Morking Prosection:
	Vesemply Code:	1009-1221	Galles Part Mo. :
4 1/16 in.5K FLG	Sod Manny 2 :	4 1/10 W2K HC	End Plung 1:
	FD3.042.0861/16.5KFLGE/E_LE		Product Description:
AMHOM]	r	
AMHOM	Created By:	502106	Invoice No. :
0-068844-1 0-068844-1	Test Date: Test Date:	50120è	Customar Ref. : Invance Mo. :

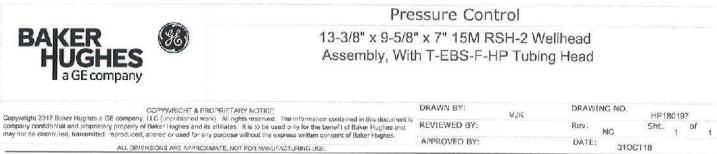
Gates E & S Morth America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 pai in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

FORM PTC - OI BEEVE 2









XTO ENERGY, INC.



XTO Energy

Eddy County, NM (NAD-27) PLU 26 Brushy Draw #104H

OH

Plan: PERMIT

Standard Planning Report

29 August, 2019

Received by OCD: 3/29/2022 2:25:45 PM Project: Eddy County, NM (NAD-27) Site: PLU 26 Brushy Draw Well: #104H Wellbore: OH Design: PERMIT PROJECT DETAILS: Eddy County, NM (NAD-27) Geodelic System US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Now Mexico East 3001
System Datum: Mean Sea Level WELL DETAILS: #104H Rig Name:
RK6 = 31° @ 3343.00usft
Ground Level: 3312.00
Easting
648500.60 32 +N/-S +E/-W 0.00 0.00 Longitude -103.8537601 DESIGN TARGET DETAILS Name PLU2680 104H: SHL (2215' FNL/1915 ' FWL) PLU2680 104H: PBHL (200' FSL/2486 ' FWL) PLU2680 104H: LTP PLU2680 104H: FTP/LP Northing 401273.80 393031.40 393161.40 400469.70 Latitude 32.1023098 32.0796448 32.0800022 32.1000924 Long tude -103.8537601 -103.8520191 -103.8520179 -103.8519236 West(-)/East(+) (1200 usft/in) -1800 -1200 -600 600 1200 1800 SECTION DETAILS Lilia +N/-S 0.00 0.00 -4.37 -230.52 -804.10 -8112.40 -8242.40 VSect 0.00 0.00 4.37 230.79 804.40 B112.70 5242.70 MD 0.00 3950.00 4200.14 10678.84 11559.81 18868.12 18998.12 Azi 0.00 0.00 113.60 113.60 179.97 179.97 TFace 0.00 0.00 113.60 0.00 66.45 0.00 0.00 90.10 90.10 -1200 PLU26BD 104H: SHL (2215' FNL/1915 ' FWL) FORMATION TOP DETAILS TVDPath 951.00 1101.00 3859.00 3951.00 4915.00 6458.00 7773.00 8743.00 PLU26BD 104H: FTP/LP --1200 9128.00 9563.00 9930.00 --1800 11137.00 Wolfcamp A -2400 South(-)/North(+) PLU26BD 104H: SHL (2215' FNL/1915 ' FWL) Sec 26 Sec 35 Rustler Top Salt 1000 (1200 2000 usft/in) 3000 Start Build 2 00 Base Salt Delaware 4000 -5400 Cherry Canyon 5000 --6000 6000 (2000 -6600 Brushy Canyo Pept 70 -7200 Vertical § 8000-Bone Spring -7800 PLU26BD 104H: LT 9000-2nd Bone Spring Lm 200' Hardline/ Setback -8400 3rd Bone Spring Lm PLU26BD 104H: PBHL (200' FSL/2486 ' FWL) Bone Spring Harkey Sand 3rd Bone Spring Ss Start DLS 10.00 TD at 18998.12 Wolfcamp Wolfcamp X LP Wolfcamp Y 11000-PLU26BD 104H: LTP 12000 PLU26BD 104H: FTP/LP PLU26BD 104H: PBHL (200' FSL)2486 FWL) 2000 Vertical Section at 179.97° (2000 usft/in) Plan: PERMIT (#104H/OH) Crested By: Matthew May Date: 11:00, August 29 2019



Database:

EDM 5000.1.13 Single User Db

Company:

XTO Energy

Project: Site:

Wellbore:

Well:

Eddy County, NM (NAD-27) PLU 26 Brushy Draw

#104H OH

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #104H

RKB = 31' @ 3343.00usft RKB = 31' @ 3343.00usft

Grid

Minimum Curvature

Design: Project

Eddy County, NM (NAD-27)

Map System: Geo Datum: Map Zone:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Site

PLU 26 Brushy Draw

Site Position: From:

Мар

PERMIT

Northing: Easting:

401,222.60 usft 651,093.70 usft

13-3/16 "

Latitude: Longitude: **Grid Convergence:**

32.1021371 -103.8453869

0.26°

Well

Well Position

Position Uncertainty:

Position Uncertainty

#104H

+N/-S

+E/-W

51.20 usft -2,593.10 usft

0.00 usft

0.00 usft

Northing: Easting:

Slot Radius:

Wellhead Elevation:

07/03/18

401,273.80 usft 648,500.60 usft 0.00 usft

6.96

Latitude: Longitude: Ground Level:

59.89

32.1023099 -103.8537601

3,312.00 usft

Wellbore

OH

PERMIT

Magnetics

Model Name

IGRF2015

Sample Date

Declination (°)

Dip Angle (°)

Field Strength (nT)

47,730

Design **Audit Notes:**

Version: **Vertical Section:** Phase:

Depth From (TVD)

(usft)

0.00

PLAN +N/-S

(usft)

0.00

Tie On Depth: +E/-W

0.00 Direction

(usft) 0.00

(°) 179.97

Plan Sections
Managered

leasured 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	
3,950.00	0.00	0.00	3,950.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.14	5.00	113.60	4,199.82	-4.37	10.00	2.00	2.00	0.00	113.60	
10,678.84	5.00	113.60	10,653.84	-230.52	527.74	0.00	0.00	0.00	0.00	
11,559.81	90.10	179.97	11,205.00	-804.10	572.30	10.00	9.66	7.53	66.45	PLU26BD 104H: F
18,868.12	90.10	179.97	11,192.24	-8,112.40	575.84	0.00	0.00	0.00	0.00	PLU26BD 104H: L
18,998.12	90.10	179.97	11,192.02	-8.242.40	575.90	0.00	0.00	0.00	0.00	PLU26BD 104H: P



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site:

Eddy County, NM (NAD-27)

PLU 26 Brushy Draw #104H

Well: Wellbore:

OH

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well#104H

RKB = 31' @ 3343.00usft RKB = 31' @ 3343.00usft

Grid Minimum Curvature

Design:	PERMIT		CHEST LA						
Planned Survey			Bara Managara		MUNICIPALITY				
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
951.00 Rustler	0.00	0.00	951.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00 1,100.00 1,101.00 Top Salt	0.00 0.00 0.00	0.00 0.00 0.00	1,000.00 1,100.00 1,101.00	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	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	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00 3,859.00	0.00	0.00 0.00	3,800.00 3,859.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
Base Salt 3,900.00 3,950.00 3,951.00 Delaware	0.00 0.00 0.02	0.00 0.00 113.60	3,900.00 3,950.00 3,951.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 2.00	0.00 0.00 2.00	0.00 0.00 0.00
4,000.00	1.00	113.60	4,000.00	-0.17	0.40	0.17	2.00	2.00	0.00
4,100.00	3.00	113.60	4,099.93	-1.57	3.60	1.57	2.00	2.00	0.00
4,200.14	5.00	113.60	4,199.82	-4.37	10.00	4.37	2.00	2.00	0.00
4,300.00	5.00	113.60	4,299.30	-7.85	17.98	7.86	0.00	0.00	0.00
4,400.00	5.00	113.60	4,398.92	-11.34	25.97	11.36	0.00	0.00	0.00



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site:

Eddy County, NM (NAD-27) PLU 26 Brushy Draw

#104H

Well: Wellbore: OH Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well#104H

RKB = 31' @ 3343.00usft RKB = 31' @ 3343.00usft

Minimum Curvature

ign:	PERMIT								
nned Survey					en e				
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)
4.500.00	5.00	113.60	4,498.54	-14.84	33.96	14.85	0.00	0.00	0.00
4,600.00		113.60	4,598.16	-18.33	41.96	18.35	0.00	0.00	0.00
4,700.00		113.60	4,697.78	-21.82	49.95	21.84	0.00	0.00	0.00
4,800.00		113.60	4,797.40	-25.31	57.94	25.34	0.00	0.00	0.00
4,900.00		113.60	4,897.02	-28.80	65.93	28.83	0.00	0.00	0.00
4,800.00									0.00
4,918.05		113.60	4,915.00	-29.43	67.37	29.46	0.00	0.00	0.00
Cherry C								2.22	12/12/2
5,000.00		113.60	4,996.64	-32.29	73.92	32.33	0.00	0.00	0.00
5,100.00		113.60	5,096.25	-35.78	81.91	35.82	0.00	0.00	0.00
5,200.00		113.60	5,195.87	-39.27	89.90	39.32	0.00	0.00	0.00
5,300.00	5.00	113.60	5,295.49	-42.76	97.90	42.81	0.00	0.00	0.00
5,400.00	5.00	113.60	5,395.11	-46.25	105.89	46.31	0.00	0.00	0.00
5,500.00		113.60	5,494.73	-49.74	113.88	49.80	0.00	0.00	0.00
5,600.00		113.60	5,594.35	-53.23	121.87	53.30	0.00	0.00	0.00
5,700.00		113.60	5,693.97	-56.72	129.86	56.79	0.00	0.00	
									0.00
5,800.00		113.60	5,793.59	-60.21	137.85	60.29	0.00	0.00	0.00
5,900.00		113.60	5,893.21	-63.70	145.84	63.78	0.00	0.00	0.00
6,000.00	5.00	113.60	5,992.83	-67.20	153.84	67.28	0.00	0.00	0.00
6,100.00	5.00	113.60	6,092.44	-70.69	161.83	70.77	0.00	0.00	0.00
6,200.00	5.00	113.60	6,192.06	-74.18	169.82	74.27	0.00	0.00	0.00
6,300.00		113.60	6,291.68	-77.67	177.81	77.76	0.00	0.00	0.00
N. 1920 C. 192									
6,400.00		113.60	6,391.30 6,458.00	-81.16	185.80	81.26	0.00	0.00	0.00
6,466.95		113.60	6,458.00	-83.49	191.15	83.59	0.00	0.00	0.00
Brushy C		name (annual ann		(March Carles	431400000000000000000000000000000000000	120000	A1 0015/20 2001	920102020	90177026120
6,500.00		113.60	6,490.92	-84.65	193.79	84.75	0.00	0.00	0.00
6,600.00		113.60	6,590.54	-88.14	201.78	88.24	0.00	0.00	0.00
6,700.00	5.00	113.60	6,690.16	-91.63	209.78	91.74	0.00	0.00	0.00
6,800.00	5.00	113.60	6,789.78	-95.12	217.77	95.23	0.00	0.00	0.00
6,900.00		113.60	6,889.40	-98.61	225.76	98.73	0.00	0.00	0.00
7,000.00		113.60	6,989.02	-102.10	233.75	102.22	0.00	0.00	0.00
7,100.00		113.60	7,088.64	-105.59	241.74	105.72	0.00	0.00	0.00
7,200.00		113.60	7,188.25	-109.08	249.73	109.21	0.00	0.00	0.00
III CHECTURA COMPONI			AA-4-0000 1000-007100000						
7,300.00		113.60	7,287.87	-112.57	257.72	112.71	0.00	0.00	0.00
7,400.00		113.60	7,387.49	-116.06	265.71	1 16.20	0.00	0.00	0.00
7,500.00		113.60	7,487.11	-119.55	273.71	1 19.70	0.00	0.00	0.00
7,600.00		113.60	7,586.73	-123.05	281.70	123.19	0.00	0.00	0.00
7,700.00	5.00	113.60	7,686.35	-126.54	289.69	126.69	0.00	0.00	0.00
7,786.98	5.00	113.60	7,773.00	-129.57	296.64	129.73	0.00	0.00	0.00
Bone Spi	ing		ANT OF THE PERSON NAMED IN						
7,800.00		113.60	7,785.97	-130.03	297.68	130.18	0.00	0.00	0.00
7,900.00	5.00	113.60	7,885.59	-133.52	305.67	133.68	0.00	0.00	0.00
8,000.00	5.00	113.60	7,985.21	-137.01	313.66	137.17	0.00	0.00	0.00
8,100.00		113.60	8,084.83	-140.50	321.65	140.67	0.00	0.00	0.00
			A. A						
8,200.00		113.60	8,184.44	-143.99	329.65	144.16	0.00	0.00	0.00
8,300.00		113.60	8,284.06	-147.48	337.64	147.66	0.00	0.00	0.00
8,400.00	5.00	113.60	8,383.68	-150.97	345.63	151.15	0.00	0.00	0.00
8,500.00		113.60	8,483.30	-154.46	353.62	154.65	0.00	0.00	0.00
8,600.00	5.00	113.60	8,582.92	-157.95	361.61	158.14	0.00	0.00	0.00
		113.60	8,682.54	-161.44					
8,700.00					369.60	161.64	0.00	0.00	0.00
8,760.69		113.60	8,743.00	-163.56	374.45	163.76	0.00	0.00	0.00
	Spring Ss	440.00	0.700.45	404.00	n== ==	105.15			
8,800.00		113.60	8,782.16	-164.93	377.59	165.13	0.00	0.00	0.00
8,900.00	5.00	113.60	8,881.78	-168.42	385.59	168.63	0.00	0.00	0.00

06/29/19 10:59:46AM

Page 4

COMPASS 5000.1 Build 74



Database: Company: Project: EDM 5000.1.13 Single User Db

XTO Energy

Project: Eddy County, NM (NAD-27)
Site: PLU 26 Brushy Draw

Well: #104H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#104H

RKB = 31' @ 3343.00usft RKB = 31' @ 3343.00usft

Grid

Minimum Curvature

ign:	PERMIT							Sales Indiana	
nned Survey	BEANI	ary neglector and			NIAS NO SERVICE	Harris and the same	NAME OF TAXABLE PARTY.	edina none	
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)
9,000.00	5.00	113.60	8,981.40	-171.91	393.58	172.12	0.00	0.00	0.00
9,100.00 9,147.16	5.00 5.00	113.60 113.60	9,081.02 9,128.00	-175.41 -177.05	401.57 405.34	175.62 177.26	0.00	0.00	0.00
	Spring Lm	MAGNATA GRAD	Torres one was an		90,0700	***********	19799	The section	722074747
9,200.00 9,300.00 9,400.00	5.00 5.00 5.00	113.60 113.60 113.60	9,180.63 9,280.25 9,379.87	-178.90 -182.39 -185.88	409.56 417.55 425.54	179.11 182.61 186.10	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
9,500.00	5.00	113.60	9,479.49	-189.37	433.53	189.59	0.00	0.00	0.00
9,583.83	5.00	113.60	9,563.00	-192.29	440.23	192.52	0.00	0.00	0.00
2nd Bone 9,600.00	Spring Ss 5.00	113.60	9,579.11	-192.86	441.53	193.09	0.00	0.00	0.00
9,700.00	5.00	113.60	9,678.73	-196.35	449.52	196.58	0.00	0.00	0.00
9,800.00	5.00	113.60	9,778.35	-199.84	457.51	200.08	0.00	0.00	0.00
9,900.00	5.00	113.60	9,877.97	-203.33	465.50	203.57	0.00	0.00	0.00
9,952.23	5.00	113.60	9,930.00	-205.15	469.67	205.40	0.00	0.00	0.00
3rd Bone		2007273223				0.00	12022	0.000	
10,000.00	5.00	113.60	9,977.59	-206.82	473.49	207.07	0.00	0.00	0.00
10,100.00	5.00	113.60	10,077.21	-210.31 -213.80	481.48 489.47	210.56 214.06	0.00	0.00	0.00
10,200.00	5.00	113.60	10,176.83						
10,300.00	5.00	113.60	10,276.44	-217.29	497.47	217.55	0.00	0.00	0.00
10,329.67	5.00	113.60	10,306.00	-218.33	499.84	218.59	0.00	0.00	0.00
	ng Harkey San		10 979 00	200 70	E0E 40	221.05	0.00	0.00	0.00
10,400.00 10,427.04	5.00 5.00	113.60 113.60	10,376.06 10,403.00	-220.78 -221.73	505.46 507.62	221.05	0.00	0.00	0.00
3rd Bone		440.00	10 475 00	004.07	E40 4F	224 54	0.00	0.00	0.00
10,500.00	5.00	113.60	10,475.68	-224.27	513.45	224.54	0.00	0.00	0.00
10,600.00	5.00	113.60	10,575.30	-227.76	521.44	228.04	0.00	0.00	0.00
10,678.84	5.00	113.60	10,653.84	-230.52	527.74	230.79	0.00	0.00	0.00
10,700.00	6.16	131.98	10,674.90	-231.65	529.43	231.92 237.68	10.00 10.00	5.47 8.08	86.88 43.02
10,750.00 10,800.00	10.20 14.83	153.49 162.33	10,724.39 10,773.20	-237.40 -247.47	533.40 537.32	247.75	10.00	9.26	17.69
10,850.00	19.64	166.98	10,820.94	-261.76	541.16	262.05	10.00	9.62	9.29
10,900.00	24.53	169.84	10,867.26	-280.18	544.89	280.46	10.00	9.77	5.72
10,950.00	29.45	171.80	10,911.80	-302.57	548.47	302.86	10.00	9.84	3.91
11,000.00	34.39	173.24	10,954.23	-328.77	551.89	329.06	10.00	9.88	2.88
11,050.00	39.34	174.35	10,994.22	-358.59	555.12	358.88	10.00	9.91	2.23
11,100.00	44.31	175.25	11,031.47	-391.78	558.13	392.08	10.00	9.93	1.80
11,150.00	49.28	176.01	11,065.69	-428.11	560.89	428.40	10.00	9.94	1.51
11,200.00	54.25	176.65	11,096.62	-467.29	563.40	467.59	10.00	9.95	1.30
11,250.00	59.23	177.23	11,124.04	-509.03	565.62	509.32	10.00	9.95	1.14
11,276.36	61.85	177.51	11,137.00	-531.96	566.68	532.25	10.00	9.96	1.05
Wolfcamp									
11,300.00	64.21	177.74	11,147.72	-553.00	567.55	553.30	10.00	9.96	1.01
11,337.70	67.96	178.10	11,163.00	-587.44	568.80	587.74	10.00	9.96	0.96
Wolfcamp						F00.45	10.00		
11,350.00	69.19	178.22	11,167.49	-598.88	569.16	599.18	10.00	9.96	0.92
1 1,400 .00 1 1,450 .00	74.17 79.15	178.66 179.08	11,183.20 11,194.73	-646.32 -694.94	570.45 571.41	646.61 695.24	10.00 10.00	9.96 9.97	0.89 0.84
11,451.43	79.30	179.10	11,195.00	-696.34	571.43	696.64	10.00	9.97	0.83
Wolfcamp 11,500.00	84.14	179.49	11,202.00	-744.39	572.02	744.69	10.00	9.97	0.82
11,550.00	89.12	179.89	11,204.93	-794.29	572.29	794.59	10.00	9.97	0.80
11,559.81	90.10	179.97	11,205.00	-804.10	572.30	804.40	10.00	9.97	0.80

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Page 5

CXXXIPASS 5000.1 Build 74



Database: Company: EDM 5000,1.13 Single User Db

any: XTO Energy

Project:

Eddy County, NM (NAD-27)

Site: PLU 26 Brushy Draw

Well: #104H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method: Well #104H

RKB = 31' @ 3343.00usft RKB = 31' @ 3343.00usft

Grid

Minimum Curvature

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)
Wolfcamp	A-LP								
11,600.00	90.10	179.97	11,204.93	-844.29	572.32	844.59	0.00	0.00	0.00
11,700.00	90.10	179.97	11,204.76	-944.29	572.37	944.59	0.00	0.00	0.00
11,800.00	90.10	179.97	11,204.58	-1,044.29	572.42	1,044.59	0.00	0.00	0.00
11,900.00	90.10	179.97	11,204.41	-1,144.29	572.46	1,144.59	0.00	0.00	0.00
12,000.00	90.10	179.97	11,204.23	-1,244.29	572.51	1,244.59	0.00	0.00	0.00
12,100.00	90.10	179.97	11,204.06	-1,344.29	572.56	1,344.59	0.00	0.00	0.00
12,200.00	90.10	179.97	11,203.88	-1,444.29	572.61	1,444.59	0.00	0.00	0.00
12,300.00	90.10	179.97	11,203.71	-1,544.29	572.66	1,544.59	0.00	0.00	0.00
12,400.00	90.10	179.97	11,203.53	-1,644.29	572.71	1,644.59	0.00	0.00	0.00
12,500.00	90.10	179.97	11,203.36	-1,744.29	572.76	1,744.59	0.00	0.00	0.00
12,600.00	90.10	179.97	11,203.18	-1,844.29	572.80	1,844.59	0.00	0.00	0.00
12,700.00	90.10	179.97	11,203.01	-1,944.29	572.85	1,944.59	0.00	0.00	0.00
12,800.00	90.10	179.97	11,202.84	-2,044.29	572.90	2,044.59	0.00	0.00	0.00
12,900.00	90.10	179.97	11,202.66	-2.144.29	572.95	2,144.59	0.00	0.00	0.00
13,000.00	90.10	179.97	11,202.49	-2,244.29	573.00	2,244.59	0.00	0.00	0.00
13,100.00	90.10	179.97	11,202.31	-2,344.29	573.05	2,344.59	0.00	0.00	0.00
13,200.00	90.10	179.97	11,202.14	-2,444.29	573.09	2,444.59	0.00	0.00	0.00
13,300.00	90.10	179.97	11,201.96	-2,544.29	573.14	2,544.59	0.00	0.00	0.00
13,400.00	90.10	179.97	11,201.79	-2,644.29	573.19	2,644.59	0.00	0.00	0.00
13,500.00	90.10	179.97	11,201.61	-2,744.29	573.24	2,744.59	0.00	0.00	0.00
13,600.00	90.10	179.97	11,201.44	-2,844.29	573.29	2,844.59	0.00	0.00	0.00
13,700.00	90.10	179.97	11,201.26	-2,944.29	573.34	2,944.59	0.00	0.00	0.00
13,800.00	90.10	179.97	11,201.09	-3,044.29	573.38	3,044.59	0.00	0.00	0.00
13,900.00	90.10	179.97	11,200.92	-3,144.29	573.43	3,144.59	0.00	0.00	0.00
14,000.00	90.10	179.97	11,200.74	-3,244.29	573.48	3,244.59	0.00	0.00	0.00
14,100.00	90.10	179.97	11,200.57	-3,344.29	573.53	3,344.58	0.00	0.00	0.00
14,200.00	90.10	179.97	11,200.39	-3,444.28	573.58	3,444.58	0.00	0.00	0.00
14,300.00	90.10	179.97	11,200.22	-3,544.28	573.63	3,544.58	0.00	0.00	0.00
14,400.00	90.10	179.97	11,200.04	-3,644.28	573.67	3,644.58	0.00	0.00	0.00
14,500.00	90.10	179.97	11,199.87	-3,744.28	573.72	3,744.58	0.00	0.00	0.00
14,600.00	90.10	179.97	11,199.69	-3,844.28	573.77	3,844.58	0.00	0.00	0.00
14,700.00	90.10	179.97	11,199.52	-3,944.28	573.82	3,944.58	0.00	0.00	0.00
14,800.00	90.10	179.97	11,199.35	-4,044.28	573.87	4,044.58	0.00	0.00	0.00
14,900.00	90.10	179.97	11,199.17	-4,144.28	573.92	4,144.58	0.00	0.00	0.00
15,000.00 15,100.00	90.10 90.10	179.97 179.97	11,199.00 11,198.82	-4,244.28 -4,344.28	573.96 574.01	4,244.58 4,344.58	0.00 0.00	0.00	0.00
0.624.40.030.000.000.000.00						sulface and a series			
15,200.00	90.10	179.97	11,198.65	-4,444.28	574.06	4,444.58	0.00	0.00 0.00	0.00
15,300.00	90.10	179.97	11,198.47	-4,544.28	574.11 574.16	4,544.58 4,644.58	0.00	0.00	0.00
15,400.00	90.10	179.97	11,198.30 11,198.12	-4,644.28 -4,744.28	574.16	4,744.58	0.00	0.00	0.00
15,500.00 15,600.00	90.10 90.10	179.97 179.97	11,198.12	-4,744.28 -4,844.28	574.21	4,744.58	0.00	0.00	0.00
5-43-04-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			11,197.77	-4,944.28	574.30	4,944.58	0.00	0.00	0.00
15,700.00 15,800.00	90.10 90.10	179.97 1 79 .97	11,197.77	-5,044.28	574.35	5,044.58	0.00	0.00	0.00
15,800.00	90.10	179.97	11,197.43	-5,144.28	574.40	5,144.58	0.00	0.00	0.00
16,000.00	90.10	179.97	11,197.45	-5,244.28	574.45	5,244.58	0.00	0.00	0.00
16,100.00	90.10	179.97	11,197.08	-5,344.28	574.50	5,344.58	0.00	0.00	0.00
16,200.00	90.10	179.97	11,196.90	-5,444.28	574.55	5.444.58	0.00	0.00	0.00
16,300.00	90.10	179.97	11,196.73	-5,544.28	574.59	5,544.58	0.00	0.00	0.00
16,400.00	90.10	179.97	11,196.55	-5,644.28	574.64	5,644.58	0.00	0.00	0.00
16,500.00	90.10	179.97	11,196.38	-5,744.28	574.69	5,744.58	0.00	0.00	0.00
16,600.00	90.10	179.97	11,196.20	-5,844.28	574.74	5,844.58	0.00	0.00	0.00
16,700.00	90.10	179.97	11,196.03	-5,944.28	574.79	5,944.58	0.00	0.00	0.00



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site: Well:

Wellbore:

Design:

Eddy County, NM (NAD-27) PLU 26 Brushy Draw

PLU 26 E #104H

#104H OH PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #104H

RKB = 31' @ 3343.00usft RKB = 31' @ 3343.00usft

Grid

Minimum Curvature

ned 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)
16.800.00	90.10	179.97	11,195.85	-6,044.28	574.84	6,044.58	0.00	0.00	0.00
16,900.00	90.10	179.97	11,195.68	-6,144.28	574.88	6,144.58	0.00	0.00	0.00
17,000.00	90.10	179.97	11,195.51	-6,244.28	574.93	6,244.58	0.00	0.00	0.00
17,100.00	90.10	179.97	11,195.33	-6,344.28	574.98	6,344.58	0.00	0.00	0.00
17,200.00	90.10	179.97	11,195.16	-6,444.28	575.03	6,444.58	0.00	0.00	0.00
17,300.00	90.10	179.97	11,194.98	-6,544.28	575.08	6,544.58	0.00	0.00	0.00
17,400.00	90.10	179.97	11,194.81	-6,644.28	575.13	6,644.58	0.00	0.00	0.00
17,500.00	90.10	179.97	11,194.63	-6,744.28	575.17	6,744.58	0.00	0.00	0.00
17,600.00	90.10	179.97	11,194.46	-6,844.28	575.22	6,844.58	0.00	0.00	0.00
17,700.00	90.10	179.97	11,194.28	-6,944.28	575.27	6,944.58	0.00	0.00	0.00
17,800.00	90.10	179.97	11,194.11	-7,044.28	575.32	7,044.58	0.00	0.00	0.00
17,900.00	90.10	179.97	11,193.93	-7,144.28	575.37	7,144.58	0.00	0.00	0.00
18,000.00	90.10	179.97	11,193.76	-7,244.28	575.42	7,244.58	0.00	0.00	0.00
18,100.00	90.10	179.97	11,193.59	-7,344.28	575.47	7,344.58	0.00	0.00	0.00
18,200.00	90.10	179.97	11,193.41	-7,444.28	575.51	7,444.58	0.00	0.00	0.00
18,300.00	90.10	179.97	11,193.24	-7,544.28	575.56	7,544.58	0.00	0.00	0.00
18,400.00	90.10	179.97	11,193.06	-7,644.28	575.61	7,644.58	0.00	0.00	0.00
18,500.00	90.10	179.97	11,192.89	-7,744.28	575.66	7,744.58	0.00	0.00	0.00
18,600.00	90.10	179.97	11,192.71	-7,844.28	575.71	7,844.58	0.00	0.00	0.00
18,700.00	90.10	179.97	11,192.54	-7,944.28	575.76	7,944.58	0.00	0.00	0.00
18,800.00	90.10	179.97	11,192.36	-8,044.28	575.80	8,044.58	0.00	0.00	0.00
18,868.12	90.10	179.97	11,192.24	-8,112.40	575.84	8,112.70	0.00	0.00	0.00
18,900.00	90.10	179.97	11,192.19	-8,144.28	575.85	8,144.58	0.00	0.00	0.00
18,998.12	90.10	179.97	11.192.02	-8,242.40	575.90	8,242.70	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target Dip - Shape	Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU26BD 104H: SHL - plan hits target cente - Point	0.00 r	0.00	0.00	0.00	0.00	401,273.80	648,500.60	32.1023099	-103.8537601
PLU26BD 104H: PBH - plan hits target cente - Point	0.00 r	0.01	11,192.02	-8,242.40	575.90	393,031.40	649,076.50	32.0796448	-103.8520191
PLU26BD 104H: LTP - plan misses target ce - Point	0.00 enter by		11,192.24 18868.12u	-8,112.40 sft MD (1119	575.70 2.24 TVD, -8	393,161.40 3112.40 N, 575.84	649,076.30 1 E)	32.0800022	-103.8520179
PLU26BD 104H: FTP - plan hits target cente - Point	0.00 r	0.00	11,205.00	-804.10	572.30	400,469.70	649,072.90	32.1000924	-103.8519235



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Eddy County, NM (NAD-27) Site:

Well: Wellbore: Design:

PLU 26 Brushy Draw

#104H OH PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#104H

RKB = 31' @ 3343.00usft RKB = 31' @ 3343.00usft

Grid

Minimum Curvature

ormations					
Measure Depth (usft)	d Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
951.	951.00	Rustler			
1,101.	1,101.00	Top Salt			
3,859.	3,859.00	Base Salt			
3,951.	3,951.00	Delaware			
4,918.	4,915.00	Cherry Canyon			
6,466.	6,458.00	Brushy Canyon			
7,786.	7,773.00	Bone Spring			
8,760.	8,743.00	1st Bone Spring Ss			
9,147.	9,128.00	2nd Bone Spring Lm			
9,583.		2nd Bone Spring Ss			
9,952.	9,930.00	3rd Bone Spring Lm			
10,329.0	10,306.00	Bone Spring Harkey Sand			
10,427.0	10,403.00	3rd Bone Spring Ss			
11,276.	36 11,137.00				
11,337.7	70 11,163.00	Wolfcamp X			
11,451.4	3 11,195.00	Wolfcamp Y			
11,559.8	11,205.00	Wolfcamp A			
11,559.8	11,205.00	LP			

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Permian Operating LLC
WELL NAME & NO.: Poker Lake Unit 26 BD 104H
LOCATION: Sec 26-25S-30E-NMP
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	Г СОМ	₩ Unit

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

- The 13-3/8 inch surface casing shall be set at approximately 1075 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 <u>8</u> 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

Page 1 of 7

- after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 7 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 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 7 inch production easing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - Cement should tie-back 100 feet into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3,500 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.

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 Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i 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.

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
- 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

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- 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 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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- 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

- 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.
- 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.

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- 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.
- 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 OOGO2.III.A.2.i 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 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. 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 plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. 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).
 - 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

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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 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 easing 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.

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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 H2S, 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 H₂S 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 H2S, and
 - o 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 (SO₂). 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 H2S and SO2

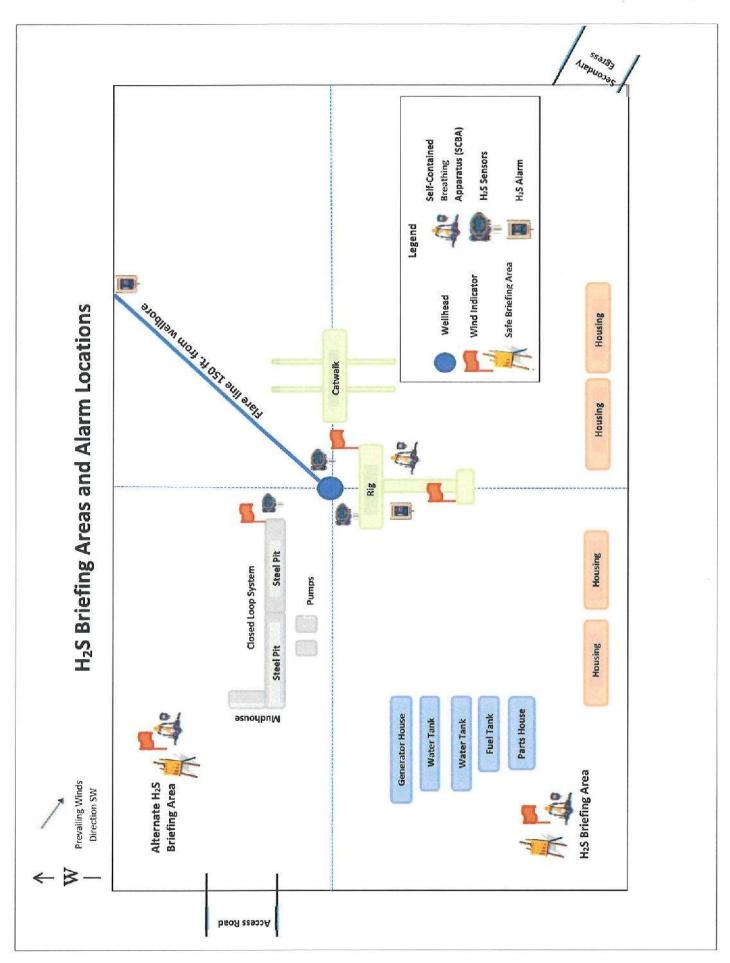
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

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



Well Name: POKER LAKE UNIT 26 BD Well Number: 104H

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? N

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.)

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

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 94018

CONDITIONS

Operator:	OGRID:	
XTO PERMIAN OPERATING LLC.	373075	
6401 HOLIDAY HILL ROAD	Action Number:	
MIDLAND, TX 79707	94018	
	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	3/30/2022
kpickford	Notify OCD 24 hours prior to casing & cement	3/30/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/30/2022
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	3/30/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/30/2022
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	3/30/2022