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 NMNM030452 APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL 1a. 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 23 DTD FEDERAL COM 123H 2. Name of Operator 9. API Well No. XTO PERMIAN OPERATING LLC 30-015-49641 10. Field and Pool, or Exploratory 3a Address 3b. Phone No. (include area code) 6401 Holiday Hill Road, Bldg 5, Midland, TX 79707 (432) 682-8873 PURPLE SAGE; WOLFCAMP (GAS) 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 23/T24S/R30E/NMP At surface NENW / 337 FNL / 1822 FWL / LAT 32.209699 / LONG -103.854387 At proposed prod. zone LOT 3 / 200 FNL / 2310 FWL / LAT 32.253574 / LONG -103.852776 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 27 miles **EDDY** NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 337 feet location to nearest property or lease line, ft. 960.0 (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 applied for, on this lease, ft. 11470 feet / 27333 feet FED: COB000050 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3431 feet 12/29/2021 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. 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 BLM 25. Signature Name (Printed/Typed) Date (Electronic Submission) STEPHANIE RABADUE / Ph: (432) 682-8873 08/06/2021 Title Regulatory Coordinator Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 03/07/2022 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 (Continued on page 2) *(Instructions on page 2) **Approval Date: 03/07/2022**

Additional Operator Remarks

Location of Well

0. SHL: NENW / 337 FNL / 1822 FWL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.209699 / LONG: -103.854387 (TVD: 0 feet, MD: 0 feet) PPP: SESE / 100 FSL / 2310 FWL / TWSP: 24S / RANGE: 30E / SECTION: 14 / LAT: 32.210904 / LONG: -103.852808 (TVD: 11250 feet, MD: 11600 feet) BHL: LOT 3 / 200 FNL / 2310 FWL / TWSP: 24S / RANGE: 30E / SECTION: 2 / LAT: 32.253574 / LONG: -103.852776 (TVD: 11470 feet, MD: 27333 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

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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

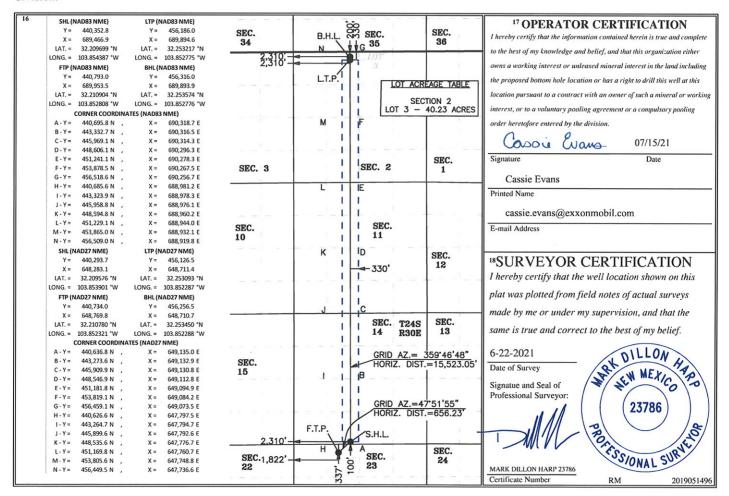
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	¹ API Number			² Pool Code	e	³ Pool Name						
	30-015-	49641	9	8220		Purple Sage; Wolf	fcamp					
⁴ Property (Code		•		⁵ Property Name					⁶ Well Number		
Poker Lake 23 DTD Federal Com								123H				
7 OGRID	No.				8 Operator	· Name				⁹ Elevation		
373075 XTO PERMIAN OPERATING, LL										3,431'		
¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	t/West line	County		
С	23	24 S	30 E		337	NORTH	1,822	WE	ST	EDDY		
			11 Bo	ttom Hol	le Location 1	f Different Fron	n Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County		
3	2	24 S	30 E		200	NORTH	2,310	WE	ST	EDDY		
12 Dedicated Acres	13 Joint o	r Infill	Consolidation	Code 15 Or	der No.							
960												

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

06/09/2022

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: _ATO Permian Oper	pperator: _X10 Fermian Operating, LLCOGRID: _5/30/3Date: _00/08/2022						
II. Type: ⊠ Original □ Amenda	nent due to	□ 19.15.27.9.D(6	5)(a) NMAC □ 19.15.27.	9.D(6)(b) NMA	AC □ Other.		
If Other, please describe:							
III. Well(s): Provide the following be recompleted from a single well				of wells propo	sed to be drilled	l or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced	
						Water	
Poker Lake 23 DTD Federal Com 103H		C-23-24S-30E	337'FNL & 1792'FWL	2000	3200	3500	
Poker Lake 23 DTD Federal Com 123H		C-23-24S-30E	337'FNL & 1822'FWL	2000	3200	3500	
Poker Lake 23 DTD Federal Com 125H		C-23-24S-30E	337'FNL & 1882'FWL	2000	3200	3500	
Poker Lake 23 DTD Federal Com 128H		G-23-24S-30E	1342'FNL & 1740'FEL	2000	3200	3500	
Poker Lake 23 DTD Federal Com 154H		C-23-24S-30E	337'FNL & 2282'FWL	2000	3200	3500	
Poker Lake 23 DTD Federal Com 155H		C-23-24S-30E	337'FNL & 2342'FWL	2000	3200	3500	
Poker Lake Unit 23 DTD 157H		G-23-24S-30E	1342'FNL & 1710'FEL	2000	3200	3500	
Poker Lake Unit 23 DTD 175H		C-23-24S-30E	337'FNL & 2372'FWL	2000	3200	3500	
Poker Lake Unit 23 DTD 176H		C-23-24S-30E	337'FNL & 2312'FWL	2000	3200	3500	

IV. Central Delivery Point Name: _PLU 23 CTB _____ [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 Reach		Completion	Initial Flow	First Production
		-	Date	Commencement Date	Back Date	Date
Poker Lake 23 DTD Federal Com 103H		TBD	TBD	TBD	TBD	TBD
Poker Lake 23 DTD Federal Com 123H		TBD	TBD	TBD	TBD	TBD
Poker Lake 23 DTD Federal Com 125H		TBD	TBD	TBD	TBD	TBD
Poker Lake 23 DTD Federal Com 128H		TBD	TBD	TBD	TBD	TBD
Poker Lake 23 DTD Federal Com 154H		TBD	TBD	TBD	TBD	TBD
Poker Lake 23 DTD Federal Com 155H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 157H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 175H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 23 DTD 176H		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. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

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

XIII. Li	ine Pressure.	Operator [□ does □	does not	anticipate	that its e	existing w	ell(s) conn	ected to	the same s	segment,	or porti	on, of	f the
natural	gas gathering	system(s)	described	above wil	l continue	to meet a	anticipate	d increases	in line	oressure c	aused by	the new	well	(s).

Attach	Operator's	nlan to	manage	production	in resr	onse to	the	increased	line	pressure

XIV. Co	nfidentiality: \square	Operator asserts	confidentiality	pursuant to	Section '	71-2-8 NN	ASA 19	978 for t	he infor	mation [provided i	n
Section 2	2 as provided in P	aragraph (2) of Sul	bsection D of 19	9.15.27.9 NN	MAC, and	d attaches a	a full de	escription	n of the s	specific	informatio	n
for which	n confidentiality i	s asserted and the l	basis for such a	ssertion.								

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: 06/08/2022								
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:

- o 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.



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

Drilling Plan Data Report

BUREAU OF LAND MANAGEMEN I

APD ID: 10400078517

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE 23 DTD FEDERAL COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 08/06/2021

Well Number: 123H

Highlighted data reflects the most recent changes

Well Work Type: Drill Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
6767612	QUATERNARY	3431	0	0	ALLUVIUM	USEABLE WATER	N
6767613	RUSTLER	2851	580	580	SANDSTONE	USEABLE WATER	N
6767614	TOP SALT	2481	950	950	SALT	NONE	N
6767615	BASE OF SALT	-439	3870	3870	SALT	NONE	N
6767616	DELAWARE	-659	4090	4090	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	N
6767617	BONE SPRING	-4489	7920	7920	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
6767618	WOLFCAMP	-7759	11190	11190	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M Rating Depth: 11470

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 10M Hydril and a 13-5/8 minimum 10M 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

Well Name: POKER LAKE 23 DTD FEDERAL COM Well Number: 123H

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

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", 10M bradenhead and flange, the BOP test will be limited to 7500 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU_23_DTD_10MCM_20210803061532.pdf

BOP Diagram Attachment:

PLU_23_DTD_5M10MBOP_20210803061538.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	12.2 5	9.625	NEW	API	N	0	850	0	850	3431	2581	850	J-55	40	BUTT	6.68	1.33	DRY	18.5 3	DRY	18.5 3
2	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	10702	0	10702	3329	-7271	10702	HCL -80		OTHER - Flush Joint	1.87	1.59	DRY	2.04	DRY	2.04
3	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	27333	0	11470	3329	-8039	27333	P- 110	23	OTHER - Semi-Flush	2.12	1.21	DRY	4.75	DRY	4.75

Casing Attachments

Well Name: POKER LAKE 23 DTD FEDERAL COM

Well Number: 123H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_123H_csg_20210803104209.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_23_DTD_123H_csg_20210803104233.pdf

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_123H_csg_20210803104243.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_23_DTD_123H_csg_20210803104332.pdf

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_123H_csg_20210803104337.pdf

Section 4 - Cement

Well Name: POKER LAKE 23 DTD FEDERAL COM Well Number: 123H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	850	310	1.87	12.9	579.7		EconoCem- HLTRRC	None

INTERMEDIATE	Lead	0	1070 2	830	2.77	10.5	2299. 1	30	Class C	None - See Cement Attachment
INTERMEDIATE	Tail	0	1070 2	710	1.33	14.8	944.3	30	Class C	None - See Cement Attachment
PRODUCTION	Lead	1040 2	2733 3	20	2.69	11.5	53.8	100	NeoCem	None
PRODUCTION	Tail	1040 2	2733 3	1180	1.51	13.2	1781. 8	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	850	SPUD MUD	8.7	9.2							

Well Name: POKER LAKE 23 DTD FEDERAL COM Well Number: 123H

Cop Depth	Bottom Depth 5	OTHER: Brine / Cut Brine / Direct Emulsion	.c Min Weight (lbs/gal)	U Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1070 2	2733 3	OTHER : Cut Brine / WBM / OBM	11.5	12							The necessary mud products for weight addition and fluid loss control will be on location at all times.

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: 6859

Anticipated Surface Pressure: 4335

Anticipated Bottom Hole Temperature(F): 170

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

PLU_23_DTD_H2S_Dia_20210803062628.pdf PLU_23_DTD_H2S_Plan_20210803062634.pdf

Well Name: POKER LAKE 23 DTD FEDERAL COM Well Number: 123H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_23_DTD_123H_DD_20210803104724.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PLU_23_DTD_123H_cmt_20210803104730.pdf

Other Variance attachment:

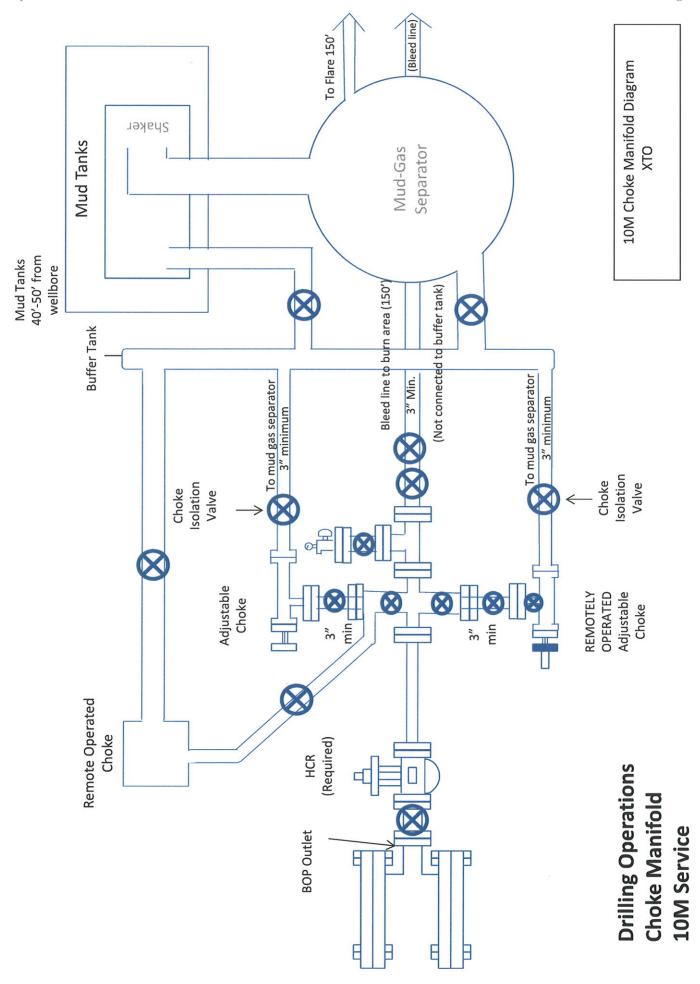
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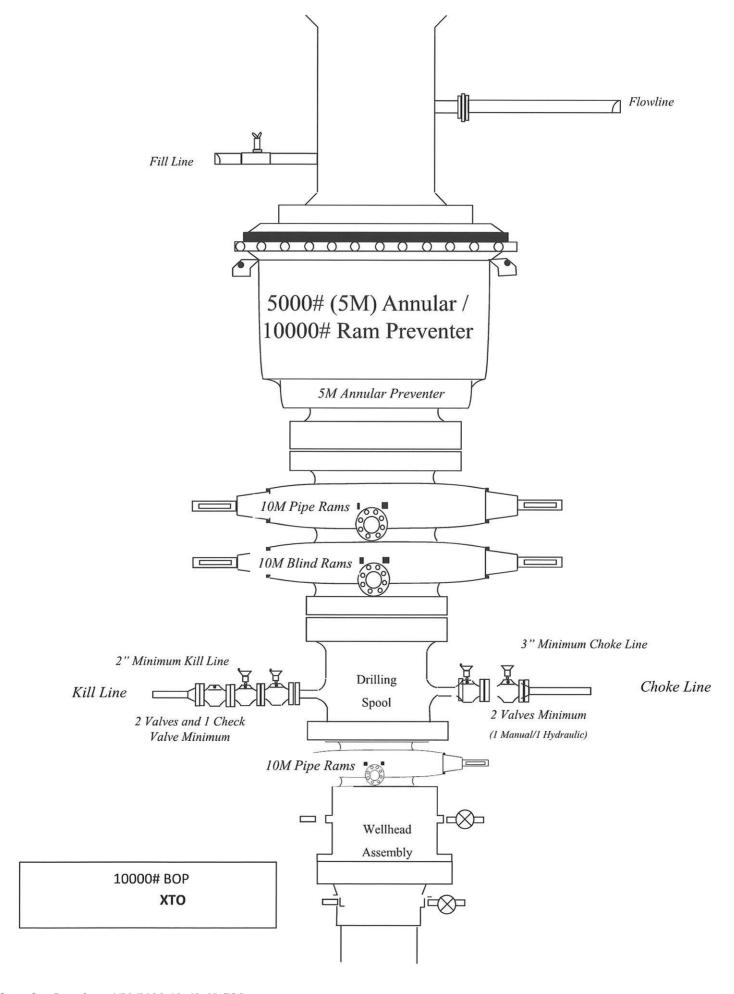
PLU_23_DTD_FH_20210803062714.pdf

PLU_23_DTD_MBS_20210803062722.pdf

PLU_23_DTD_OFCV_20210803062728.pdf

PLU_23_DTD_Spud_20210803062736.pdf





3. Casing Design

	_	_				
SF Tension	18.53	1.76	2.04	1.86	4.10	4.75
SF Collapse	89.9	2.65	1.87	2.29	2.12	2.12
SF Burst	1.30	2.18	1.59	1.21	1.21	1.21
New/Used	New	New	New	New	New	New
Collar	BTC	RY P-110 Flush Joint	Flush Joint	Semi- Premium	RY P-110 Semi-Flush	RY P-110 Semi-Flush
Grade	1-55	RY P-110	HC L-80	RY P-110	RY P-110	RY P-110
Weight	40	29.7	29.7	23	23	23
OD Csg	9.625	7.625	7.625	5.5	5.5	5.5
Depth	0, - 850,	0, - 4000,	4000' – 10702'	0' – 10602'	10602' - 11470'	11470' - 27333'
Hole Size	12.25	8.75	8.75	6.75	6.75	6.75

XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry

XTO requests to not utilize centralizers in the curve and lateral

7.625 Collapse analyzed using 50% evacuation based on regional experience.

5.5 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

XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead - Cactus CRC-MBU-3T-CFL Multibowl System

Temporary Wellhead

21-1/4" 2M flange top x 18-5/8" SOW bottom

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 9-5/8" SOW bottom

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

· Manufacturer will monitor welding process to ensure appropriate temperature of seal. · Wellhead will be installed by manufacturer's representatives.

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

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Cement Variance Request

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6290') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per GE procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

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

Description of Operations:

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



GATES E & S NORTH AMERICA, INC

DU-TEX

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX: 361-887-0812

EMAIL: crpe&s@gates.com

WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer:

Customer Ref. :

Invoice No. :

AUSTIN DISTRIBUTING

PENDING

201709

Test Date:

Hose Serial No.:

Created By:

6/8/2014

D-060814-1

NORMA

Product Description:

FD3.042.0R41/16.5KFLGE/E LE

End Fitting 1:

Gates Part No. :

Working Pressure :

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

5,000 PSI

End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 in.5K FLG

L33090011513D-060814-1

7,500 PSI

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

Quality:

Date:

Signature :

QUALITY

1 6/8/20147

Technical Supervisor:

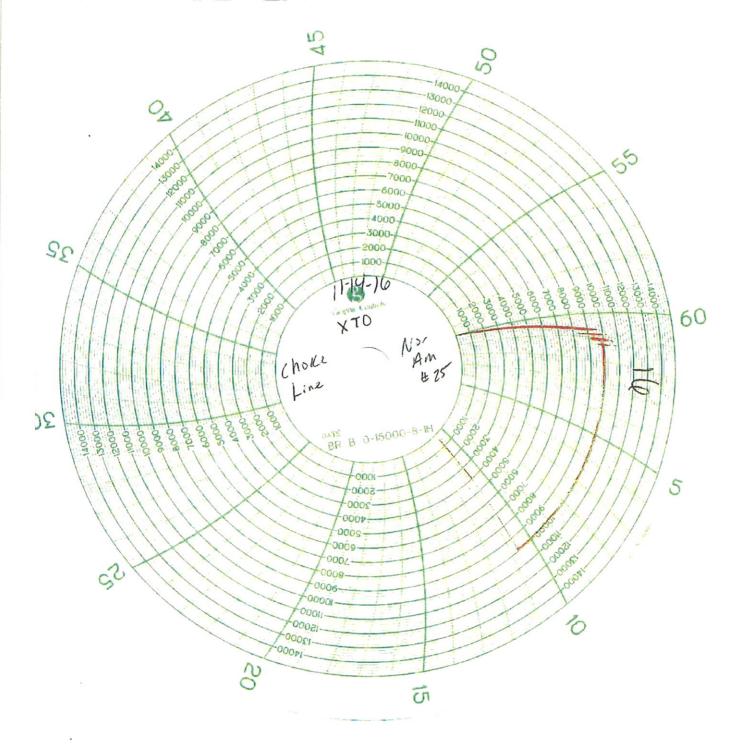
Date:

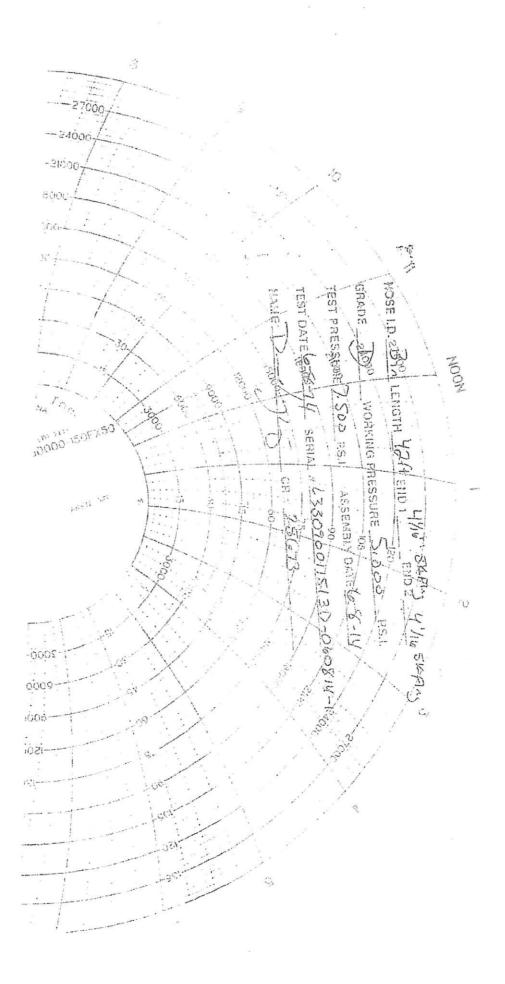
Signature:

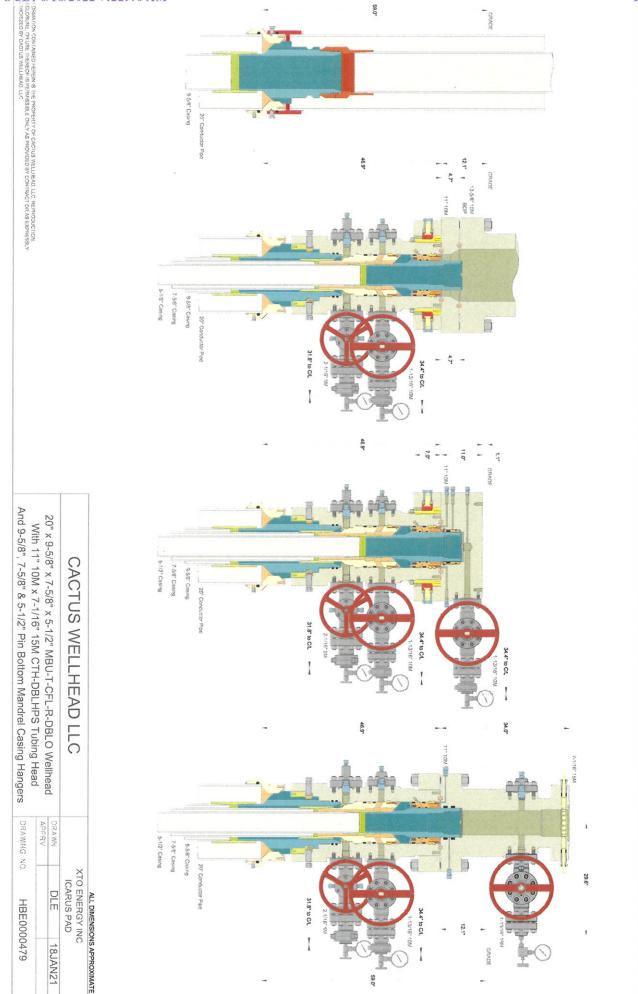
PRODUCTION

6/8/2014

Form PTC - 01 Rev.0 2







XTO Permian Operating, LLC Offline Cementing Variance Request

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

1. Cement Program

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

2. Offline Cementing Procedure

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

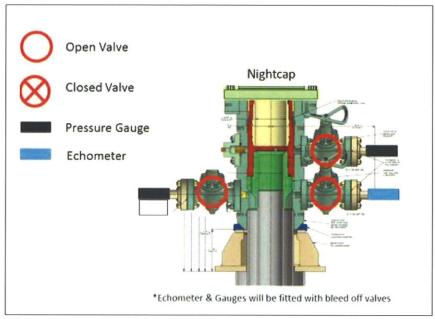
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set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



Annular packoff with both external and internal seals

1 Drilling Plan

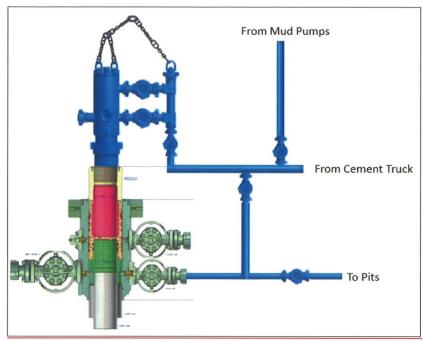
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order (OOGO) No. 2, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. OOGO No. 2, Section I.D.2 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per OOGO No. 2, Section IV., XTO Energy submits this request for the variance.

Supporting Documentation

OOGO No. 2 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since OOGO No. 2 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

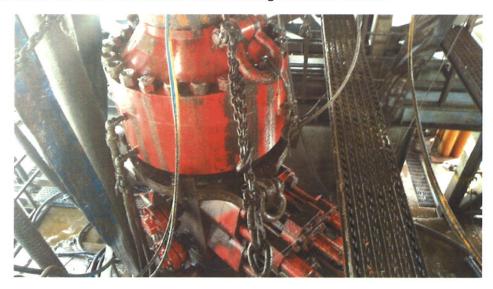


Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. OOGO No. 2 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

2	API STANDARO	53					
Tal	ole C.4—Initial Pressure Te	esting, Surface BOP Stacks					
	Pressure Test—Low	Pressure Test—High Pressure <mark>≫</mark>					
Component to be Pressure Tested	Pressure ^{so} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket				
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.				
Fixed pipe, variable bore, blind, and BSR preventers [™]	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP				
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP				
Choke manifold—upstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP				
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,				
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program					
	during the evaluation period. The p	pressure shall not decrease below the					
For pad drilling operations, moving		allest OD drill pipe to be used in well n the 21 days, pressure testing is req al is broken.					
For surface offshore operations, the vented during the initial test. For locking pressure vented at comm	land operations, the ram BOPs sha	ted with the ram locks engaged and all be pressure tested with the ram lo	the closing and locking pressur cks engaged and the closing an				
		testing against a closed choke is no	t required.				

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

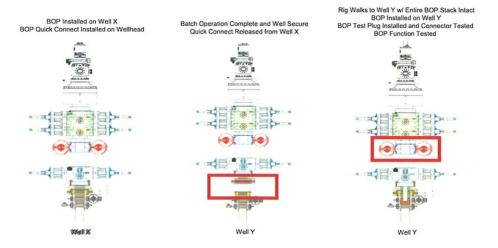
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of OOGO No. 2 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the OOGO No. 2.

Procedures

- XTO Energy will use this document for our break testing plan for New Mexico Delaware basin.
 The summary below will be referenced in the APD or Sundry Notice and receive approval prior
 to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

- 11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

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

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1. After a full BOP test is conducted on the first well on the pad.
- 2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
- 3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4. Full BOP test will be required prior to drilling the production hole.

Page 32 of 57



XTO Energy

Eddy County, NM (NAD-27) POKER LAKE UNIT 23 DTD #123H

Wellbore #1

Plan: PERMIT

Standard Planning Report

29 June, 2021

Project: Eddy County, NM (NAD-27) Site: POKER LAKE UNIT 23 DTD Well: #123H Wellbore: Wellbore #1 Design: PERMIT

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

Geodelic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1856
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #123H

Rig Name:
RKB = 30' @ 3520.00usft
Ground Level: 3490.00
Easting
648283.10 32 Northing 440293.70 Latittude 32.2095754 Longitude -103.8539013

DESIGN TARGET DETAILS

Name PLAT SHL #123H: 337' FNL, 1822' FWL PLAT BHL #123H: 200' FNL, 2310' FWL PLAT FTP #123H	TVD 0.00 11470.00 11470.00	+N/-S 0.00 15962.80 440.30	+E/-W 0.00 427.60 486.70	Northing 440293.70 456256.50 440734.00	Easting 648283.10 648710.70 648769.80	Latitude 32.2095754 32.2534502 32.2107798	-103.8539013 -103.8522877 -103.8523214	Shape Point Point Point
PLAT LTP #123H	11470.00	15832.80	428.30	456126.50	648711.40	32.2530929		Point

-2000

-1000

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

#123H/PERMIT

Sec 2

Sec 11

PLAT BHL #123H: 200' FNL, 2310' FWL

1000

3000

PLAT LTP #123H

-16000

-15000

-14000

-13000

-12000

11000

10000

South(-)/North(+) (

(2000

usft/in)

-6000

4000

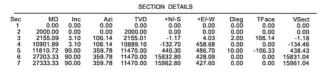
-3000

-2000

-1000

#123H/PERMIT

15000



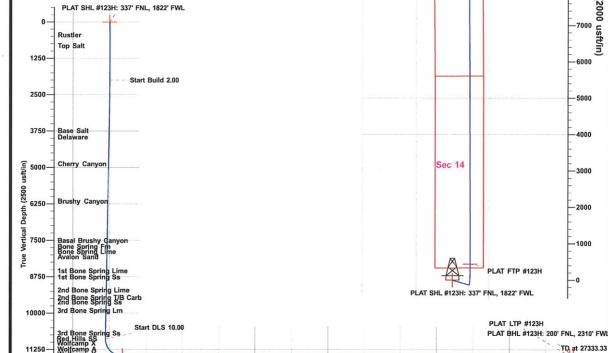
FORMATION TOP DETAILS

TVDPath	Formation
580.00	Rustler
950.00	Top Salt
3870.00	Base Salt
4090.00	Delaware
5010.00	Cherry Canyon
6290.00	Brushy Canyon
7640.00	Basal Brushy Canyon
7920.00	Bone Spring Fm
8020.00	Bone Spring Lime
8050.00	Avalon Sand
8680.00	1st Bone Spring Lime
8890.00	1st Bone Spring Ss
9340.00	2nd Bone Spring Lime
9750.00	2nd Bone Spring Ss
9770.00	2nd Bone Spring T/B Carb
10040.00	3rd Bone Spring Lm
10820.00	3rd Bone Spring Ss
11110.00	Red Hills SS
11190.00	Wolfcamp
11220.00	Wolfcamp X
11310.00	Wolfcamp Y
11370.00	Wolfcamp A
11470.00	LP



PLAT FTP #123H

3750



6250

7500

8750

10000

11250

12500

13750

Vertical Section at 359.78° (2500 usft/in) Plan: PERMIT (#123H/Wellbore #1) Created By: Matthew May Date: 22:05, June 29 2021

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

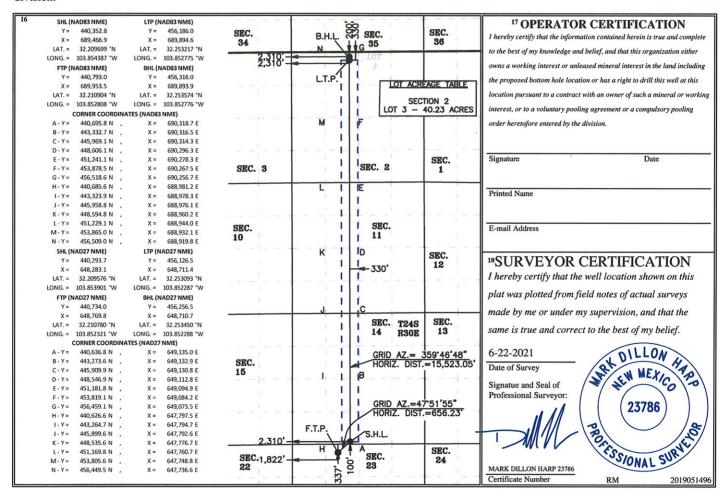
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 ADI Number 2 Beel Code 3 Beel Nouse													
1	API Number	r		² Pool Code			³ Pool Na	me					
	30-015-												
⁴ Property (Code				⁵ Property l		⁶ Well Number						
	POKER LAKE UNIT 23 DTD												
7 OGRID I	No.	⁸ Operator Name ⁹ Elevation											
373075	5	XTO PERMIAN OPERATING, LLC 3,431'											
	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			
C	23	24 S	30 E		337	NORTH	1,822	WE	ST	EDDY			
			11 Bo	ttom Hol	e Location If	Different Fron	Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County			
3	2	24 S	30 E		200	NORTH	2,310	WE	ST	EDDY			
12 Dedicated Acres	13 Joint o	r Infill 14 Co	nsolidation	Code 15 Or	der No.		'						

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





Planning Report

Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project:

Eddy County, NM (NAD-27)

Site: Well: POKER LAKE UNIT 23 DTD

#123H Wellbore: Wellbore #1 Design: **PERMIT**

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

Grid

Minimum Curvature

Project

Eddy County, NM (NAD-27)

Map System: Geo Datum:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

Map Zone:

New Mexico East 3001

POKER LAKE UNIT 23 DTD Site

Site Position: From:

Мар **Position Uncertainty:**

Northing: Easting: 0.00 usft Slot Radius: 441,023.90 usft 646,650.40 usft 13-3/16 "

Latitude: Longitude: **Grid Convergence:**

32.2116026 -103.8591696 0.25

Well

#123H

Well Position

Position Uncertainty

+N/-S +E/-W

-730.20 usft 1,632.70 usft

0.00 usft

Northing: Easting: Wellhead Elevation: 440,293.70 usft 648,283.10 usft 0.00 usft

6.67

Longitude: **Ground Level:**

59.84

Latitude:

-103.8539013 3,490.00 usft

32.2095754

Wellbore

Wellbore #1

Magnetics

Model Name

IGRF2020

Sample Date

06/29/21

Declination (°)

Dip Angle

Field Strength (nT)

47,452

Design

PERMIT

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

0.00

+N/-S (usft) 0.00

+E/-W (usft) 0.00

Direction (°) 359.78

Plan Sections	s									
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	
2,155.09	3.10	106.14	2,155.01	-1.17	4.03	2.00	2.00	0.00	106.14	
10,901.99	3.10	106.14	10,889.10	-132.70	458.68	0.00	0.00	0.00	0.00	
11,810.72	90.00	359.78	11,470.00	440.30	486.70	10.00	9.56	-11.70	-106.33 P	LAT FTP #123H
27,203.33	90.00	359.78	11,470.00	15,832.80	428.09	0.00	0.00	0.00	0.00 P	LAT LTP #123H
27,333.33	90.00	359.78	11,470.00	15,962.80	427.60	0.00	0.00	0.00	0.00 P	LAT BHL #123H:



Database:

Site:

EDM 5000.1.13 Single User Db

Company: Project:

XTO Energy

Eddy County, NM (NAD-27) POKER LAKE UNIT 23 DTD

#123H Well: Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

Grid

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)	
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	0.00	200.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	
300.00 400.00	0.00	0.00	300.00 400.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
500.00 580.00	0.00 0.00	0.00	500.00 580.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	
Rustler	0.00	0.00	300.00	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	
950.00	0.00	0.00	950.00	0.00	0.00	0.00	0.00	0.00	0.00	
Top Salt										
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 2,100.00	0.00 2.00	0.00 106.14	2,000.00 2,099.98	0.00 -0.49	0.00 1.68	0.00 -0.49	0.00 2.00	0.00 2.00	0.00 0.00	
2,155.09	3.10	106.14	2,155.01	-1.17	4.03	-1.18	2.00	2.00	0.00	
2,200.00	3.10	106.14	2,199.86	-1.84	6.37	-1.87	0.00	0.00	0.00	
2,300.00	3.10	106.14	2,299.71	-3.35	11.56	-3.39	0.00	0.00	0.00	
2,400.00	3.10	106.14	2,399.57	-4.85	16.76	-4.91	0.00	0.00	0.00	
2,500.00	3.10	106.14	2,499.42	-6.35	21.96	-6.44	0.00	0.00	0.00	
2,600.00	3.10	106.14	2,599.27	-7.86	27.16	-7.96	0.00	0.00	0.00	
2,700.00	3.10	106.14	2,699.13	-9.36	32.35	-9.48	0.00	0.00	0.00	
2,800.00	3.10	106.14	2,798.98	-10.86	37.55	-11.01	0.00	0.00	0.00	
2,900.00	3.10	106.14	2,898.83	-12.37	42.75	-12.53	0.00	0.00	0.00	
3,000.00	3.10	106.14	2,998.69	-13.87	47.95	-14.06	0.00	0.00	0.00	
3,100.00	3.10	106.14	3,098.54	-15.38	53.15	-15.58	0.00	0.00	0.00	
3,200.00	3.10	106.14	3,198.39	-16.88	58.34	-17.10	0.00	0.00	0.00	
3,300.00	3.10	106.14	3,298.25	-18.38	63.54	-18.63	0.00	0.00	0.00	
3,400.00 3,500.00	3.10 3.10	106.14 106.14	3,398.10 3,497.95	-19.89 -21.39	68.74 73.94	-20.15 -21.67	0.00 0.00	0.00 0.00	0.00 0.00	
3,600.00	3.10	106.14	3,597.81	-21.39	79.13	-23.20	0.00	0.00	0.00	
3,700.00 3,800.00	3.10 3.10	106.14 106.14	3,697.66 3,797.51	-24.40 -25.90	84.33 89.53	-24.72 -26.25	0.00 0.00	0.00	0.00 0.00	
3,872.59	3.10	106.14	3,870.00	-26.99	93.30	-27.35	0.00	0.00	0.00	
Base Salt		. 55 1	2,2,0.00	_0.00	30.00	00	0.00	0.00	0.00	
3,900.00	3.10	106.14	3,897.37	-27.41	94.73	-27.77	0.00	0.00	0.00	
4,000.00	3.10	106.14	3,997.22	-28.91	99.93	-29.29	0.00	0.00	0.00	
4,092.91	3.10	106.14	4,090.00	-30.31	104.76	-30.71	0.00	0.00	0.00	
Delaware	5.10	100.14	4,000.00	30.01	104.70	30.71	0.00	0.00	0.00	
4,100.00	3.10	106.14	4,097.08	-30.41	105.12	-30.82	0.00	0.00	0.00	
4,200.00	3.10	106.14	4,196.93	-31.92	110.32	-32.34	0.00	0.00	0.00	
4,300.00	3.10	106.14	4,296.78	-33.42	115.52	-33.86	0.00	0.00	0.00	
4,400.00	3.10	106.14	4,396.64	-34.93	120.72	-35.39	0.00	0.00	0.00	



Database:

EDM 5000.1.13 Single User Db

Company: XTO Energy Project: Eddy County

Eddy County, NM (NAD-27) POKER LAKE UNIT 23 DTD

Well: Wellbore: Design:

Site:

#123H Wellbore #1 PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

Grid

Minimum Curvature

esign:	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)
4,500.00 4,600.00 4,700.00 4,800.00 4,900.00	3.10 3.10 3.10	106.14 106.14 106.14 106.14 106.14	4,496.49 4,596.34 4,696.20 4,796.05 4,895.90	-36.43 -37.93 -39.44 -40.94 -42.44	125.92 131.11 136.31 141.51 146.71	-36.91 -38.44 -39.96 -41.48 -43.01	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
5,000.00 5,014.26	3.10	106.14 106.14	4,995.76 5,010.00	-43.95 -44.16	151.90 152.65	-44.53 -44.75	0.00	0.00	0.00 0.00
5,100.00 5,200.00 5,300.00	3.10 3.10	106.14 106.14 106.14	5,095.61 5,195.46 5,295.32	-45.45 -46.96 -48.46	157.10 162.30 167.50	-46.05 -47.58 -49.10	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
5,400.00 5,500.00 5,600.00 5,700.00 5,800.00	3.10 3.10 3.10 3.10	106.14 106.14 106.14 106.14 106.14	5,395.17 5,495.02 5,594.88 5,694.73 5,794.58	-49.96 -51.47 -52.97 -54.47 -55.98	172.70 177.89 183.09 188.29 193.49	-50.63 -52.15 -53.67 -55.20 -56.72	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
5,900.00 6,000.00 6,100.00 6,200.00 6,296.14	3.10 3.10 3.10 3.10 3.10	106.14 106.14 106.14 106.14 106.14	5,894.44 5,994.29 6,094.15 6,194.00 6,290.00	-57.48 -58.99 -60.49 -61.99 -63.44	198.68 203.88 209.08 214.28 219.27	-58.24 -59.77 -61.29 -62.82 -64.28	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
Brushy C	anyon								
6,300.00 6,400.00 6,500.00 6,600.00 6,700.00	3.10 3.10 3.10	106.14 106.14 106.14 106.14 106.14	6,293.85 6,393.71 6,493.56 6,593.41 6,693.27	-63.50 -65.00 -66.51 -68.01 -69.51	219.48 224.67 229.87 235.07 240.27	-64.34 -65.86 -67.39 -68.91 -70.43	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
6,800.00 6,900.00 7,000.00 7,100.00 7,200.00	3.10 3.10 3.10 3.10	106.14 106.14 106.14 106.14 106.14	6,793.12 6,892.97 6,992.83 7,092.68 7,192.53	-71.02 -72.52 -74.02 -75.53 -77.03	245.46 250.66 255.86 261.06 266.26	-71.96 -73.48 -75.01 -76.53 -78.05	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
7,300.00 7,400.00 7,500.00 7,600.00 7,648.12	3.10 3.10 3.10 3.10	106.14 106.14 106.14 106.14 106.14	7,292.39 7,392.24 7,492.09 7,591.95 7,640.00	-78.54 -80.04 -81.54 -83.05 -83.77	271.45 276.65 281.85 287.05 289.55	-79.58 -81.10 -82.62 -84.15 -84.88	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
	ishy Canyon	100.14	7,040.00	-00.77	209.00	-04.00	0.00	0.00	0.00
7,700.00 7,800.00 7,900.00 7,928.53	3.10 3.10	106.14 106.14 106.14 106.14	7,691.80 7,791.65 7,891.51 7,920.00	-84.55 -86.05 -87.56 -87.99	292.24 297.44 302.64 304.12	-85.67 -87.20 -88.72 -89.15	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Bone Spr 8,000.00		106.14	7,991.36	-89.06	307.84	-90.24	0.00	0.00	0.00
8,028.68		106.14	8,020.00	-89.49	309.33	-90.68	0.00	0.00	0.00
Bone Spr 8,058.72 Avalon Sa	3.10	106.14	8,050.00	-89.95	310.89	-91.14	0.00	0.00	0.00
8,100.00 8,200.00 8,300.00	3.10 3.10	106.14 106.14 106.14	8,091.22 8,191.07 8,290.92	-90.57 -92.07 -93.57	313.04 318.23 323.43	-91.77 -93.29 -94.81	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,400.00 8,500.00		106.14 106.14	8,390.78 8,490.63	-95.08 -96.58	328.63 333.83	-96.34 -97.86	0.00	0.00 0.00	0.00 0.00

06/29/21 10:08:16PM

Page 4

COMPASS 5000.1 Build 74



Database:

EDM 5000.1.13 Single User Db

Company:

XTO Energy

Eddy County, NM (NAD-27) Project:

POKER LAKE UNIT 23 DTD Site: Well: #123H Wellbore #1 Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

Grid

esign:	PERMIT									
anned 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)	
8,600.00 8,689.65 1st Bone	3.10 3.10 Spring Lime	106.14 106.14	8,590.48 8,680.00	-98.08 -99.43	339.02 343.68	-99.39 -100.75	0.00 0.00	0.00 0.00	0.00 0.00	
8,700.00	3.10	106.14	8,690.34	-99.59	344.22	-100.91	0.00	0.00	0.00	
8,800.00 8,899.96 1st Bone	3.10 3.10 Spring Ss	106.14 106.14	8,790.19 8,890.00	-101.09 -102.60	349.42 354.62	-102.43 -103.96	0.00 0.00	0.00 0.00	0.00 0.00	
8,900.00 9,000.00 9,100.00	3.10 3.10 3.10	106.14 106.14 106.14	8,890.04 8,989.90 9,089.75	-102.60 -104.10 -105.60	354.62 359.82 365.01	-103.96 -105.48 -107.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
9,200.00 9,300.00 9,350.62	3.10 3.10 3.10	106.14 106.14 106.14	9,189.60 9,289.46 9,340.00	-107.11 -108.61 -109.37	370.21 375.41 378.04	-108.53 -110.05 -110.82	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
	Spring Lime	400.44	0.000.04	440.40	000.04	444.50	0.00	0.00		
9,400.00 9,500.00	3.10 3.10	106.14 106.14	9,389.31 9,489.16	-110.12 -111.62	380.61 385.80	-111.58 -113.10	0.00 0.00	0.00 0.00	0.00 0.00	
9,600.00 9,700.00 9,761.22	3.10 3.10 3.10	106.14 106.14 106.14	9,589.02 9,688.87 9,750.00	-113.12 -114.63 -115.55	391.00 396.20 399.38	-114.62 -116.15 -117.08	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
9,781.25	Spring Ss 3.10	106.14	9,770.00	-115.85	400.42	-117.39	0.00	0.00	0.00	
2nd Bone 9,800.00	Spring T/B Car 3.10	'b 106.14	9,788.72	-116.13	401.40	-117.67	0.00	0.00	0.00	
9,900.00 10,000.00 10,051.64	3.10 3.10 3.10	106.14 106.14 106.14	9,888.58 9,988.43 10,040.00	-117.63 -119.14 -119.91	406.60 411.79 414.48	-119.19 -120.72 -121.51	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
10,100.00	Spring Lm 3.10	106.14	10,088.29	-120.64	416.99	-122.24	0.00	0.00	0.00	
10,200.00 10,300.00	3.10 3.10	106.14 106.14	10,188.14 10,287.99	-122.15 -123.65	422.19 427.39	-123.77 -125.29	0.00	0.00	0.00 0.00	
10,400.00 10,500.00 10,600.00 10,700.00	3.10 3.10 3.10 3.10	106.14 106.14 106.14 106.14	10,387.85 10,487.70 10,587.55 10,687.41	-125.15 -126.66 -128.16 -129.66	432.58 437.78 442.98 448.18	-126.81 -128.34 -129.86 -131.38	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	
10,800.00 10,832.79	3.10 3.10	106.14 106.14	10,787.26 10,820.00	-131.17 -131.66	453.38 455.08	-132.91 -133.41	0.00 0.00	0.00 0.00	0.00	
3rd Bone 10,901.99 10,950.00 11,000.00	3.10 4.93 9.41	106.14 36.88 18.07	10,889.10 10,937.01 10,986.62	-132.70 -131.41 -125.81	458.68 461.16 463.72	-134.46 -133.18 -127.59	0.00 10.00 10.00	0.00 3.80 8.96	0.00 -144.25 -37.61	
11,050.00 11,100.00 11,128.39	14.24 19.15 21.96	11.61 8.39 7.19	11,035.54 11,083.42 11,110.00	-115.89 -101.75 -91.87	466.23 468.66 470.01	-117.68 -103.55 -93.68	10.00 10.00 10.00	9.66 9.83 9.89	-12.93 -6.43 -4.23	
Red Hills : 11,150.00 11,200.00	24.10 29.07	6.46 5.15	11,129.89 11,174.59	-83.48 -61.22	471.01 473.25	-85.29 -63.04	10.00 10.00	9.91 9.93	-3.40 -2.61	
11,217.79 Wolfcamp		4.78	11,190.00	-52.38	474.02	-54.19	10.00	9.95	-2.08	
11,250.00 11,253.41 Wolfcamp	34.04 34.38 X	4.20 4.14	11,217.18 11,220.00	-35.15 -33.24	475.36 475.50	-36.98 -35.07	10.00 10.00	9.95 9.96	-1.81 -1.64	
11,300.00 11,350.00	39.02 44.01	3.46 2.87	11,257.35 11,294.77	-5.46 27.62	477.34 479.16	-7.29 25.78	10.00 10.00	9.96 9.97	-1.46 -1.19	



Database:

EDM 5000.1.13 Single User Db

Company:

XTO Energy

Project:

Eddy County, NM (NAD-27) POKER LAKE UNIT 23 DTD

Well: Wellbore: Design:

Site:

#123H Wellbore #1 **PERMIT**

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

Grid

esign:	PERMIT								
lanned 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)
11,371.57 Wolfcamp	46.16 Y	2.64	11,310.00	42.87	479.89	41.03	10.00	9.97	-1.04
11,400.00	49.00	2.37	11,329.18	63.84	480.81	61.99	10.00	9.98	-0.95
11,450.00	53.98	1.95	11,360.30	102.92	482.28	101.07	10.00	9.98	-0.85
11,466.84 Wolfcamp	55.66 4	1.82	11,370.00	116.68	482.73	114.82	10.00	9.98	-0.78
11,500.00	58.97	1.57	11,387.90	144.58	483.56	142.72	10.00	9.98	-0.73
11,550.00	63.97	1.24	11,411.78	188.48	484.63	186.62	10.00	9.98	-0.67
11,600.00	68.96	0.93	11,431.74	234.29	485.49	232.43	10.00	9.98	-0.62
11,650.00	73.95	0.64	11,447.64	281.68	486.14	279.81	10.00	9.98	-0.58
11,700.00	78.94	0.36	11,459.35	330.27	486.57	328.40	10.00	9.99	-0.55
11,750.00	83.94	0.10	11,466.79	379.70	486.76	377.82	10.00	9.99	-0.53
11,800.00	88.93	359.84	11,469.90	429.58	486.74	427.71	10.00	9.99	-0.52
11,810.72 LP	90.00	359.78	11,470.00	440.30	486.70	438.43	10.00	9.99	-0.52
11,900.00	90.00	359.78	11,470.00	529.58	486.36	527.71	0.00	0.00	0.00
12,000.00	90.00	359.78	11,470.00	629.58	485.98	627.71	0.00	0.00	0.00
12,100.00	90.00	359.78	11,470.00	729.58	485.60	727.71	0.00	0.00	0.00
12,200.00	90.00	359.78	11,470.00	829.58	485.22	827.71	0.00	0.00	0.00
12,300.00	90.00	359.78	11,470.00	929.58	484.84	927.71	0.00	0.00	0.00
12,400.00	90.00	359.78	11,470.00	1,029.58	484.46	1,027.71	0.00	0.00	0.00
12,500.00	90.00	359.78	11,470.00	1,129.58	484.08	1,127.71	0.00	0.00	0.00
12,600.00	90.00	359.78	11,470.00	1,229.58	483.69	1,227.71	0.00	0.00	0.00
12,700.00	90.00	359.78	11,470.00	1,329.58	483.31	1,327.71	0.00	0.00	0.00
12,800.00	90.00	359.78	11,470.00	1,429.58	482.93	1,427.71	0.00	0.00	0.00
12,900.00	90.00	359.78	11,470.00	1,529.57	482.55	1,527.71	0.00	0.00	0.00
13,000.00	90.00	359.78	11,470.00	1,629.57	482.17	1,627.71	0.00	0.00	0.00
13,100.00	90.00	359.78	11,470.00	1,729.57	481.79	1,727.71	0.00	0.00	0.00
13,200.00	90.00	359.78	11,470.00	1,829.57	481.41	1,827.71	0.00	0.00	0.00
13,300.00	90.00	359.78	11,470.00	1,929.57	481.03	1,927.71	0.00	0.00	0.00
13,400.00	90.00	359.78	11,470.00	2,029.57	480.65	2,027.71	0.00	0.00	0.00
13,500.00	90.00	359.78	11,470.00	2,129.57	480.27	2,127.71	0.00	0.00	0.00
13,600.00	90.00	359.78	11,470.00	2,229.57	479.89	2,227.71	0.00	0.00	0.00
13,700.00	90.00	359.78	11,470.00	2,329.57	479.51	2,327.71	0.00	0.00	0.00
13,800.00	90.00	359.78	11,470.00	2,429.57	479.13	2,427.71	0.00	0.00	0.00
13,900.00	90.00	359.78	11,470.00	2,529.57	478.75	2,527.71	0.00	0.00	0.00
14,000.00	90.00	359.78	11,470.00	2,629.57	478.36	2,627.71	0.00	0.00	0.00
14,100.00	90.00	359.78	11,470.00	2,729.57	477.98	2,727.71	0.00	0.00	0.00
14,200.00	90.00	359.78	11,470.00	2,829.57	477.60	2,827.71	0.00	0.00	0.00
14,300.00	90.00	359.78	11,470.00	2,929.56	477.22	2,927.71	0.00	0.00	0.00
14,400.00	90.00	359.78	11,470.00	3,029.56	476.84	3,027.71	0.00	0.00	0.00
14,500.00	90.00	359.78	11,470.00	3,129.56	476.46	3,127.71	0.00	0.00	0.00
14,600.00	90.00	359.78	11,470.00	3,229.56	476.08	3,227.71	0.00	0.00	0.00
14,700.00	90.00	359.78	11,470.00	3,329.56	475.70	3,327.71	0.00	0.00	0.00
14,800.00	90.00	359.78	11,470.00	3,429.56	475.32	3,427.71	0.00	0.00	0.00
14,900.00	90.00	359.78	11,470.00	3,529.56	474.94	3,527.71	0.00	0.00	0.00
15,000.00	90.00	359.78	11,470.00	3,629.56	474.56	3,627.71	0.00	0.00	0.00
15,100.00	90.00	359.78	11,470.00	3,729.56	474.18	3,727.71	0.00	0.00	0.00
15,200.00	90.00	359.78	11,470.00	3,829.56	473.80	3,827.71	0.00	0.00	0.00
15,300.00	90.00	359.78	11,470.00	3,929.56	473.42	3,927.71	0.00	0.00	0.00
15,400.00	90.00	359.78	11,470.00	4,029.56	473.03	4,027.71	0.00	0.00	0.00
15,500.00	90.00	359.78	11,470.00	4,129.56	472.65	4,127.71	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: POKER LAKE UNIT 23 DTD

Well: #123H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method: Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

Grid

ngii.									
nned 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)
15,700.00	90.00	359.78	11,470.00	4,329.55	471.89	4,327.71	0.00	0.00	0.00
15,800.00		359.78	11,470.00	4,429.55	471.51	4,427.71	0.00	0.00	0.00
15,900.00		359.78	11,470.00	4,529.55	471.13	4,527.71	0.00	0.00	0.00
16,000.00		359.78	11,470.00	4,629.55	470.75	4,627.71	0.00	0.00	0.00
16,100.00		359.78	11,470.00	4,729.55	470.37	4,727.71	0.00	0.00	0.00
			3.0			150			
16,200.00		359.78	11,470.00	4,829.55	469.99	4,827.71	0.00	0.00	0.00
16,300.00		359.78	11,470.00	4,929.55	469.61	4,927.71	0.00	0.00	0.00
16,400.00		359.78	11,470.00	5,029.55	469.23	5,027.71	0.00	0.00	0.00
16,500.00	90.00	359.78	11,470.00	5,129.55	468.85	5,127.71	0.00	0.00	0.00
16,600.00	90.00	359.78	11,470.00	5,229.55	468.47	5,227.71	0.00	0.00	0.00
16,700.00	90.00	359.78	11,470.00	5,329.55	468.08	5,327.71	0.00	0.00	0.00
16,800.00	90.00	359.78	11,470.00	5,429.55	467.70	5,427.71	0.00	0.00	0.00
16,900.00	90.00	359.78	11,470.00	5,529.55	467.32	5,527.71	0.00	0.00	0.00
17,000.00	90.00	359.78	11,470.00	5,629.55	466.94	5,627.71	0.00	0.00	0.00
17,100.00	90.00	359.78	11,470.00	5,729.54	466.56	5,727.71	0.00	0.00	0.00
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17,200.00	90.00	359.78	11,470.00	5,829.54	466.18	5,827.71	0.00	0.00	0.00
17,300.00	90.00	359.78	11,470.00	5,929.54	465.80	5,927.71	0.00	0.00	0.00
17,400.00	90.00	359.78	11,470.00	6,029.54	465.42	6,027.71	0.00	0.00	0.00
17,500.00	90.00	359.78	11,470.00	6,129.54	465.04	6,127.71	0.00	0.00	0.00
17,600.00	90.00	359.78	11,470.00	6,229.54	464.66	6,227.71	0.00	0.00	0.00
17,700.00	90.00	359.78	11,470.00	6,329.54	464.28	6,327.71	0.00	0.00	0.00
17,800.00	90.00	359.78	11,470.00	6,429.54	463.90	6,427.71	0.00	0.00	0.00
17,900.00	90.00	359.78	11,470.00	6,529.54	463.52	6,527.71	0.00	0.00	0.00
18,000.00	90.00	359.78	11,470.00	6,629.54	463.14	6,627.71	0.00	0.00	0.00
18,100.00	90.00	359.78	11,470.00	6,729.54	462.75	6,727.71	0.00	0.00	0.00
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18,200.00	90.00	359.78	11,470.00	6,829.54	462.37	6,827.71	0.00	0.00	0.00
18,300.00	90.00	359.78	11,470.00	6,929.54	461.99	6,927.71	0.00	0.00	0.00
18,400.00	90.00	359.78	11,470.00	7,029.54	461.61	7,027.71	0.00	0.00	0.00
18,500.00	90.00	359.78	11,470.00	7,129.53	461.23	7,127.71	0.00	0.00	0.00
18,600.00	90.00	359.78	11,470.00	7,229.53	460.85	7,227.71	0.00	0.00	0.00
18,700.00	90.00	359.78	11,470.00	7,329.53	460.47	7,327.71	0.00	0.00	0.00
18,800.00	90.00	359.78	11,470.00	7,429.53	460.09	7,427.71	0.00	0.00	0.00
18,900.00	90.00	359.78	11,470.00	7,529.53	459.71	7,527.71	0.00	0.00	0.00
19,000.00	90.00	359.78	11,470.00	7,629.53	459.33	7,627.71	0.00	0.00	0.00
19,100.00	90.00	359.78	11,470.00	7,729.53	458.95	7,727.71	0.00	0.00	0.00
19,200.00	90.00	359.78	11,470.00	7,829.53	458.57	7,827.71	0.00	0.00	0.00
19,300.00	90.00	359.78	11,470.00	7,929.53	458.19	7,927.71	0.00	0.00	0.00
19,400.00	90.00	359.78	11,470.00	8,029.53	456.19	8,027.71	0.00	0.00	
19,500.00	90.00	359.78	11,470.00	8,129.53	457.42	8,127.71	0.00	0.00	0.00
19,600.00	90.00	359.78	11,470.00	8,229.53	457.42	8,227.71	0.00	0.00	0.00 0.00
			170 II.						
19,700.00	90.00	359.78	11,470.00	8,329.53	456.66	8,327.71	0.00	0.00	0.00
19,800.00	90.00	359.78	11,470.00	8,429.53	456.28	8,427.71	0.00	0.00	0.00
19,900.00	90.00	359.78	11,470.00	8,529.52	455.90	8,527.71	0.00	0.00	0.00
20,000.00	90.00	359.78	11,470.00	8,629.52	455.52	8,627.71	0.00	0.00	0.00
20,100.00	90.00	359.78	11,470.00	8,729.52	455.14	8,727.71	0.00	0.00	0.00
20,200.00	90.00	359.78	11,470.00	8,829.52	454.76	8,827.71	0.00	0.00	0.00
20,300.00	90.00	359.78	11,470.00	8,929.52	454.38	8,927.71	0.00	0.00	0.00
20,400.00	90.00	359.78	11,470.00	9,029.52	454.00	9,027.71	0.00	0.00	0.00
20,500.00	90.00	359.78	11,470.00	9,129.52	453.62	9,127.71	0.00	0.00	0.00
20,600.00	90.00	359.78	11,470.00	9,229.52	453.24	9,227.71	0.00	0.00	0.00
20,700.00	90.00	359.78	11,470.00	9,329.52	452.86	9,327.71			
20,700.00	90.00	359.78	11,470.00	9,329.52	452.86 452.47		0.00	0.00	0.00
20,800.00	90.00	359.78	11,470.00	9,429.52	452.47	9,427.71 9,527.71	0.00	0.00	0.00
21,000.00	90.00	359.78					0.00	0.00	0.00
21,000.00	90.00	339.78	11,470.00	9,629.52	451.71	9,627.71	0.00	0.00	0.00



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site: Eddy County, NM (NAD-27) POKER LAKE UNIT 23 DTD

Well: #123H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

Grid

Minimum Curvature

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)
21,100.00	90.00	359.78	11,470.00	9,729.52	451.33	9,727.71	0.00	0.00	0.00
21,200.00	90.00	359.78	11,470.00	9,829.51	450.95	9,827.71	0.00	0.00	0.00
21,300.00	90.00	359.78	11,470.00	9,929.51	450.57	9,927.71	0.00	0.00	0.00
21,400.00	90.00	359.78	11,470.00	10,029.51	450.19	10,027.71	0.00	0.00	0.00
21,500.00	90.00	359.78	11,470.00	10,129.51	449.81	10,127.71	0.00	0.00	0.00
21,600.00	90.00	359.78	11,470.00	10,229.51	449.43	10,227.71	0.00	0.00	0.00
21,700.00	90.00	359.78	11,470.00	10,329.51	449.05	10,327.71	0.00	0.00	0.00
21,800.00	90.00	359.78	11,470.00	10,429.51	448.67	10,427.71	0.00	0.00	0.00
21,900.00	90.00	359.78	11,470.00	10,529.51	448.29	10,527.71	0.00	0.00	0.00
22,000.00	90.00	359.78	11,470.00	10,629.51	447.91	10,627.71	0.00	0.00	0.00
22,100.00	90.00	359.78	11,470.00	10,729.51	447.53	10,727.71	0.00	0.00	0.00
22,200.00	90.00	359.78	11,470.00	10,829.51	447.14	10,827.71	0.00	0.00	0.00
22,300.00	90.00	359.78	11,470.00	10,929.51	446.76	10,927.71	0.00	0.00	0.00
22,400.00	90.00	359.78	11,470.00	11,029.51	446.38	11,027.71	0.00	0.00	0.00
22,500.00	90.00	359.78	11,470.00	11,129.51	446.00	11,127.71	0.00	0.00	0.00
22,600.00	90.00	359.78	11,470.00	11,229.50	445.62	11,227.71	0.00	0.00	0.00
22,700.00	90.00	359.78	11,470.00	11,329.50	445.24	11,327.71	0.00	0.00	0.00
22,800.00	90.00	359.78	11,470.00	11,429.50	444.86	11,427.71	0.00	0.00	0.00
22,900.00	90.00	359.78	11,470.00	11,529.50	444.48	11,527.71	0.00	0.00	0.00
23,000.00	90.00	359.78	11,470.00	11,629.50	444.10	11,627.71	0.00	0.00	0.00
23,100.00	90.00	359.78	11,470.00	11,729.50	443.72	11,727.71	0.00	0.00	0.00
23,200.00	90.00	359.78	11,470.00	11,829.50	443.34	11,827.71	0.00	0.00	0.00
23,300.00	90.00	359.78	11,470.00	11,929.50	442.96	11,927.71	0.00	0.00	0.00
23,400.00	90.00	359.78	11,470.00	12,029.50	442.58	12,027.71	0.00	0.00	0.00
23,500.00	90.00	359.78	11,470.00	12,129.50	442.19	12,127.71	0.00	0.00	0.00
23,600.00	90.00	359.78	11,470.00	12,229.50	441.81	12,227.71	0.00	0.00	0.00
23,700.00	90.00	359.78	11,470.00	12,329.50	441.43	12,327.71	0.00	0.00	0.00
23,800.00	90.00	359.78	11,470.00	12,429.50	441.05	12,427.71	0.00	0.00	0.00
23,900.00	90.00	359.78	11,470.00	12,529.50	440.67	12,527.71	0.00	0.00	0.00
24,000.00	90.00	359.78	11,470.00	12,629.49	440.29	12,627.71	0.00	0.00	0.00
24,100.00	90.00	359.78	11,470.00	12,729.49	439.91	12,727.71	0.00	0.00	0.00
24,200.00	90.00	359.78	11,470.00	12,829.49	439.53	12,827.71	0.00	0.00	0.00
24,300.00	90.00	359.78	11,470.00	12,929.49	439.15	12,927.71	0.00	0.00	0.00
24,400.00	90.00	359.78	11,470.00	13,029.49	438.77	13,027.71	0.00	0.00	0.00
24,500.00	90.00	359.78	11,470.00	13,129.49	438.39	13,127.71	0.00	0.00	0.00
24,600.00	90.00	359.78	11,470.00	13,229.49	438.01	13,227.71	0.00	0.00	0.00
24,700.00	90.00	359.78	11,470.00	13,329.49	437.63	13,327.71	0.00	0.00	0.00
24,800.00	90.00	359.78	11,470.00	13,429.49	437.25	13,427.71	0.00	0.00	0.00
24,900.00	90.00	359.78	11,470.00	13,529.49	436.86	13,527.71	0.00	0.00	0.00
25,000.00	90.00	359.78	11,470.00	13,629.49	436.48	13,627.71	0.00	0.00	0.00
25,100.00	90.00	359.78	11,470.00	13,729.49	436.10	13,727.71	0.00	0.00	0.00
25,200.00	90.00	359.78	11,470.00	13,829.49	435.72	13,827.71	0.00	0.00	0.00
25,300.00	90.00	359.78	11,470.00	13,929.49	435.34	13,927.71	0.00	0.00	0.00
25,400.00	90.00	359.78	11,470.00	14,029.48	434.96	14,027.71	0.00	0.00	0.00
25,500.00	90.00	359.78	11,470.00	14,129.48	434.58	14,127.71	0.00	0.00	0.00
25,600.00	90.00	359.78	11,470.00	14,229.48	434.20	14,227.71	0.00	0.00	0.00
25,700.00	90.00	359.78	11,470.00	14,329.48	433.82	14,327.71	0.00	0.00	0.00
25,800.00	90.00	359.78	11,470.00	14,429.48	433.44	14,427.71	0.00	0.00	0.00
25,900.00	90.00	359.78	11,470.00	14,529.48	433.06	14,527.71	0.00	0.00	0.00
26,000.00	90.00	359.78	11,470.00	14,629.48	432.68	14,627.71	0.00	0.00	0.00
26,100.00	90.00	359.78	11,470.00	14,729.48	432.30	14,727.71	0.00	0.00	0.00
26,200.00	90.00	359.78	11,470.00	14,829.48	431.91	14,827.71	0.00	0.00	0.00
26,300.00	90.00	359.78	11,470.00	14,929.48	431.53	14,927.71	0.00	0.00	0.00
26,400.00	90.00	359.78	11,470.00	15,029.48	431.15	15,027.71	0.00	0.00	0.00

06/29/21 10:08:16PM

Page 8

COMPASS 5000.1 Build 74



Planning Report

Database:

EDM 5000.1.13 Single User Db

Company:

XTO Energy

Project: Site:

Eddy County, NM (NAD-27) POKER LAKE UNIT 23 DTD

Well: #123H Wellbore: Wellbore #1 Design: **PERMIT**

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

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)
26,500.00	90.00	359.78	11,470.00	15,129.48	430.77	15,127.71	0.00	0.00	0.00
26,600.00	90.00	359.78	11,470.00	15,229.48	430.39	15,227.71	0.00	0.00	0.00
26,700.00	90.00	359.78	11,470.00	15,329.48	430.01	15,327.71	0.00	0.00	0.00
26,800.00	90.00	359.78	11,470.00	15,429.47	429.63	15,427.71	0.00	0.00	0.00
26,900.00	90.00	359.78	11,470.00	15,529.47	429.25	15,527.71	0.00	0.00	0.00
27,000.00	90.00	359.78	11,470.00	15,629.47	428.87	15,627.71	0.00	0.00	0.00
27,100.00	90.00	359.78	11,470.00	15,729.47	428.49	15,727.71	0.00	0.00	0.00
27,203.33	90.00	359.78	11,470.00	15,832.80	428.09	15,831.04	0.00	0.00	0.00
27,300.00	90.00	359.78	11,470.00	15,929.47	427.73	15,927.71	0.00	0.00	0.00
27,333.33	90.00	359.78	11,470.00	15,962.80	427.60	15,961.04	0.00	0.00	0.00

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
PLAT SHL #123H: 33' - plan hits target co - Point	0.00 enter	0.00	0.00	0.00	0.00	440,293.70	648,283.10	32.2095754	-103.8539013
PLAT FTP #123H - plan hits target co - Point	0.00 enter	0.00	11,470.00	440.30	486.70	440,734.00	648,769.80	32.2107798	-103.8523214
PLAT LTP #123H - plan misses targe - Point	0.00 et center by		11,470.00 27203.33u		428.30 0.00 TVD, 1	456,126.50 5832.80 N, 428.0	648,711.40 9 E)	32.2530929	-103.8522873
PLAT BHL #123H: 20 - plan hits target co	0.00 enter	0.00	11,470.00	15,962.80	427.60	456,256.50	648,710.70	32.2534503	-103.8522877

⁻ Point



Database:

EDM 5000.1.13 Single User Db

Company:

XTO Energy

Project: Site:

Eddy County, NM (NAD-27) POKER LAKE UNIT 23 DTD

Well: Wellbore: Design:

#123H Wellbore #1 **PERMIT**

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:**

Well #123H

RKB = 30' @ 3520.00usft RKB = 30' @ 3520.00usft

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
580.00	580.00	Rustler	¥.	3/8/	
950.00	950.00	Top Salt			
3,872.59	3,870.00	Base Salt			
4,092.91	4,090.00	Delaware			
5,014.26	5,010.00	Cherry Canyon			
6,296.14	6,290.00	Brushy Canyon			
7,648.12	7,640.00	Basal Brushy Canyon			
7,928.53	7,920.00	Bone Spring Fm			
8,028.68	8,020.00	Bone Spring Lime			
8,058.72	8,050.00	Avalon Sand			
8,689.65	8,680.00	1st Bone Spring Lime			
8,899.96	8,890.00	1st Bone Spring Ss			
9,350.62	9,340.00	2nd Bone Spring Lime			
9,761.22	9,750.00	2nd Bone Spring Ss			
9,781.25	9,770.00	2nd Bone Spring T/B Carb			
10,051.64	10,040.00	3rd Bone Spring Lm			
10,832.79	10,820.00	3rd Bone Spring Ss			
11,128.39	11,110.00	Red Hills SS			
11,217.79	11,190.00	Wolfcamp			
11,253.41	11,220.00	Wolfcamp X			
11,371.57	11,310.00	Wolfcamp Y			
11,466.84	11,370.00	Wolfcamp A			

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | XTO Permian Operating, LLC

LEASE NO.: NMNM-030452

WELL NAME & NO.: | Poker Lake 23 DTD Federal Com 123H

SURFACE HOLE FOOTAGE: | 0337' FNL & 1822' FWL

BOTTOM HOLE FOOTAGE | 0200' FNL & 2310' FWL Sec. 02, T.24 S., R.30 E.

LOCATION: Section 23, T.24 S., R.30 E., NMPM

COUNTY: Eddy County, New Mexico

COA

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

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.

B. CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 850 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 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
- 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.

Page 2 of 8

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 10,000 (10M) psi. Variance approved to use a 5M annular. The annular must be tested to 70% working pressure (3500 psi.)
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

BOP Break Testing Variance

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

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D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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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.

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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.

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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).

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- 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.

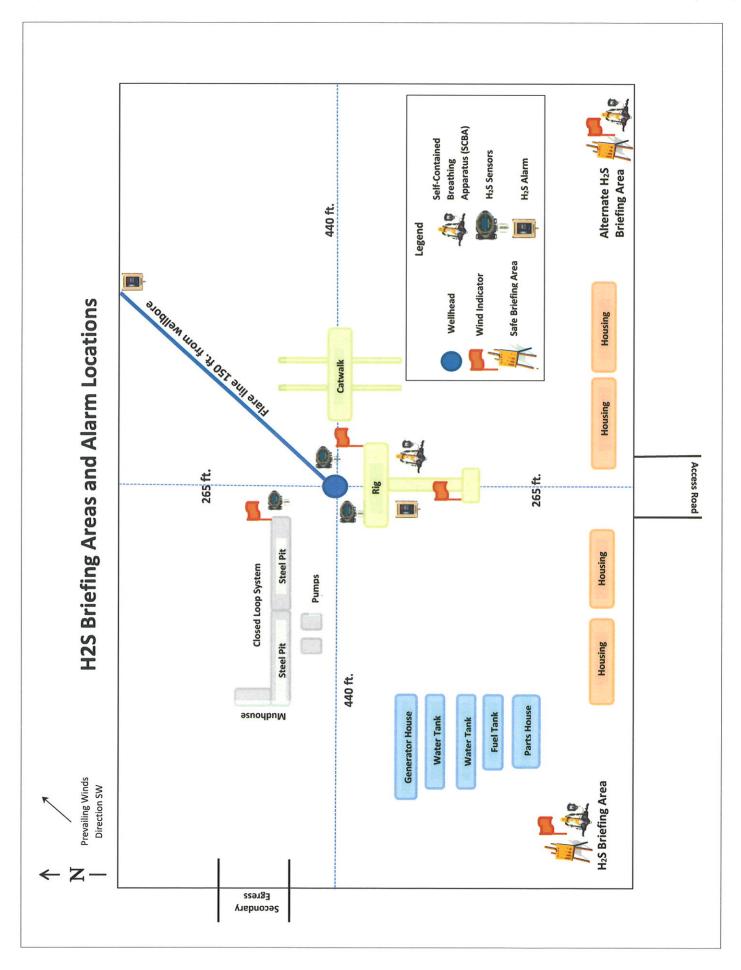
D. WASTE MATERIAL AND FLUIDS

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 10152021

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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,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (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 Milton Turman, Drilling Superintendent Jeff Raines, Construction Foreman Toady Sanders, EH & S Manager Wes McSpadden, Production Foreman	903-521-6477 817-524-5107 432-557-3159 903-520-1601 575-441-1147
SHERIFF DEPARTMENTS: Eddy County	575-887-7551
Lea County	575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS: Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2112 575-397-9308 575-395-2221 575-396-2359
AGENT NOTIFICATIONS: For Lea County: Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
For Eddy County: Bureau of Land Management - Carlsbad New Mexico Oil Conservation Division - Artesia	575-234-5972 575-748-1283

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE 23 DTD FEDERAL COM Well Number: 123H

Safe containment description: Steel mud pits

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100

pounds

Waste disposal frequency: One Time Only

Safe containment description: The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off

style mud boxes.

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

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.)

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 118473

CONDITIONS

Operator:	OGRID:	
XTO PERMIAN OPERATING LLC.	373075	
6401 HOLIDAY HILL ROAD	Action Number:	
MIDLAND, TX 79707	118473	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
kpickford	Operator must be in compliance with 5.9 for inactive wells prior to C-104 approval.	6/23/2022
kpickford	Will require a administrative order for non-standard location prior to placing the well on production	6/23/2022
kpickford	Notify OCD 24 hours prior to casing & cement	6/23/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/23/2022
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	6/23/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	6/23/2022
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	6/23/2022