Form 3160-3 (June 2015) UNITED STATE:	OMB No.	APPROVED 1004-0137 nuary 31, 2018	}			
DEPARTMENT OF THE I BUREAU OF LAND MAN		r		5. Lease Serial No. NMLC0062140A		
APPLICATION FOR PERMIT TO D		_		6. If Indian, Allotee of	or Tribe Name	
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ O	EENTER other ingle Zone	Multiple Zone		7. If Unit or CA Agre POKER LAKE / NM 8. Lease Name and W	INM 071016 Vell No.	
					1 20-21 63	
2. Name of Operator XTO PERMIAN OPERATING LLC				9. API Well No. 30	015 4895	4
 Address Holiday Hill Road, Bldg 5, Midland, TX 79707 	3b. Phone N (432) 682-8	io. (include area cod 3873	e)	10. Field and Pool, or PURPLE SAGE; W		GAS)
4. Location of Well (Report location clearly and in accordance of At surface NENE / 536 FNL / 770 FEL / LAT 32.10707 At proposed prod. zone NENE / 50 FNL / 1170 FEL / LA	8 / LONG -1	03.776978	102	11, Sec., T. R. M. or I SEC 28/T25S/R31E		ey or Area
14. Distance in miles and direction from nearest town or post offi 27 miles	04/1	7 2010 -103.770	192	12. County or Parish	13. S NM	State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No of ac	cres in lease	17. Spacin	ng Unit dedicated to the		
18 Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft.	19. Propose 11620 feet	d Depth / 19820 feet	- 04	BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3349 feet	22. Approxi 06/19/2021	mate date work will	start*	23. Estimated duratio	n	
30 10 1001	24. Attac			40 days		
The following, completed in accordance with the requirements of (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System			e operation	Iydraulic Fracturing rul	•	
SUPO must be filed with the appropriate Forest Service Office		BLM	ecific infor	mation and/or plans as n	nay be request	ed by the
25. Signature (Electronic Submission)		<i>(Printed/Typed)</i> HANIE RABADUE	/ Ph: (432		Date 01/10/2021	
Title Regulatory Coordinator						
Approved by (Signature) (Electronic Submission)		<i>(Printed/Typed)</i> Layton / Ph: (575)	234-5959		Date 06/04/2021	
Title Assistant Field Manager Lands & Minerals	Office Carlsb	ad Field Office				
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.			ose rights i	in the subject lease whi	ch would enti	tle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					y department	or agency
(Continued on page 2)	VED WI'	rh condit	IONS	*(Inst	ructions on	page 2)
		06/04/2021		(11131		rusv 2)

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

1220 S, St, Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

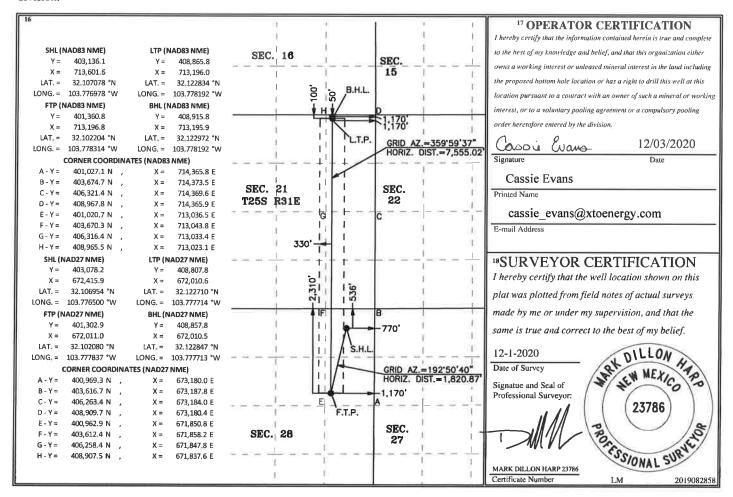
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	г		² Pool Code		³ Pool Name							
	30-015-		982	220		Purple Sage; Wolfcamp (gas)							
⁴ Property 6	operty Code												
			POKER LAKE UNIT 28-21 BS 107H										
7 OGRID	No.		⁸ Operator Name ⁹ Elevation										
37307:	5		XTO PERMIAN OPERATING, LLC 3,349'										
					10 Surface	Location		,					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/V	Vest line	County			
Α	28	25 S	31 E		536	NORTH	770	EAST	r	EDDY			
	"Bottom Hole Location If Different From Surface												

UL or lot no. Section Township Range Lot Idn Feet from the North/South line East/West line Feet from the County A 25 S 31 E 50 **NORTH EAST EDDY** 1.170Joint or Infill 12 Dedicated Acres Consolidation Code ¹⁵ Order No. 480

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



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Data 00/25/2021

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

OCDID. 272075

i. Operator: _X10 Permian	Operating,	LLC	OGKIL): _3/30/3	Date: _06/2	.3/2021
II. Type: x Original □ Ame	ndment due	to x 19.15.27.9.D	e(6)(a) NMAC □ 19.15.2	7.9.D(6)(b) NM	AC □ Other.	
If Other, please describe:						
III. Well(s): Provide the follobe recompleted from a single				set of wells pro	posed to be drille	ed or proposed to
Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated
				Oil BBL/D	Gas MCF/D	Produced
						Water BBL/D
Poker Lake Unit 28-21 BS 102H		E-28-25S-31E	1505'FNL & 898'FWL	1500	2700	3000
Poker Lake Unit 28-21 BS 103H		C-28-25S-31E	544'FNL & 2187'FWL	1500	2700	3000
Poker Lake Unit 28-21 BS 104H		C-28-25S-31E	544'FNL & 2217'FWL	1500	2700	3000
Poker Lake Unit 28-21 BS 105H		B-28-25S-31E	549'FNL & 1945'FEL	1500	2700	3000
Poker Lake Unit 28-21 BS 107H		A-28-25S-31E	536'FNL & 770'FEL	1500	2700	3000
Poker Lake Unit 28-21 BS 108H		A-28-25S-31E	536'FNL & 740'FEL	1500	2700	3000
Poker Lake Unit 28-21 BS 121H		E-28-25S-31E	1505'FNL & 838'FWL	2000	2700	3000
Poker Lake Unit 28-21 BS 122H		E-28-25S-31E	1505'FNL & 868'FWL	2000	2700	3000
Poker Lake Unit 28-21 BS 124H		C-28-25S-31E	544'FNL & 2158'FWL	2000	2700	3000
Poker Lake Unit 28-21 BS 125H		B-28-25S-31E	549'FNL & 2005'FEL	2000	2700	3000
Poker Lake Unit 28-21 BS 126H		B-28-25S-31E	549'FNL & 1975'FEL	2000	2700	3000
Poker Lake Unit 28-21 BS 127H		A-28-25S-31E	536'FNL & 800'FEL	2000	2700	3000
Poker Lake Unit 28-21 BS 151H		E-28-25S-31E	1505'FNL & 438'FWL	2700	3200	3500
Poker Lake Unit 28-21 BS 153H		C-28-25S-31E	545'FNL & 1727'FWL	2700	3200	3500
Poker Lake Unit 28-21 BS 154H		C-28-25S-31E	545'FNL & 1758'FWL	2700	3200	3500
Poker Lake Unit 28-21 RS 155H		B-28-25S-31E	550'FNI & 2405'FFI	2700	3200	3500

IV. Central Delivery Point Name: _Poker Lake Unit 28 BS CTBE / CTBW _____ [See 19.15.27.9(D)(1) NMAC]

A-28-25S-31E

A-28-25S-31E

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.

536'FNL & 1230'FEL

536'FNL & 1200'FEL

2700

2700

3200

3200

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 28-21 BS 102H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 103H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 104H		TBD	TBD	TBD	TBD	TBD

3500

3500

Poker Lake Unit 28-21 BS 156H

Poker Lake Unit 28-21 BS 158H

Poker Lake Unit 28-21 BS 105H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 107H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 108H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 121H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 122H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 124H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 125H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 126H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 127H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 151H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 153H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 154H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 155H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 156H	TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 28-21 BS 158H	TBD	TBD	TBD	TBD	TBD

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

VII. Operational Practices: \boxtimes 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

			E APRIL 1, 2022		
Beginning April 1, 2 reporting area must c			with its statewide natural ga	as cap	ture requirement for the applicable
☐ Operator certifies capture requirement f			tion because Operator is in o	compli	iance with its statewide natural gas
IX. Anticipated Nat	ural Gas Producti	on:			
We	11	API	Anticipated Average Natural Gas Rate MCF/D)	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Gat	hering System (NO	GGS):			
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Ava	ailable Maximum Daily Capacity of System Segment Tie-in
production operations the segment or portion in the Segment or portion in the Segment or portion in the Segment of the Segment	s to the existing or no f the natural gas The natural gas ga om the well prior to	planned interconnect of the gathering system(s) to whethering system will to the date of first product	he natural gas gathering system which the well(s) will be considered will not have capacity to go tion.	em(s), nected	ted pipeline route(s) connecting the and the maximum daily capacity of l. 100% of the anticipated natural gas the same segment, or portion, of the
					pressure caused by the new well(s).
☐ Attach Operator's	plan to manage pro	oduction in response to the	ne increased line pressure.		
Section 2 as provided	in Paragraph (2) o		27.9 NMAC, and attaches a f		78 for the information provided in scription of the specific information

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: <u>Stephanie.rabadue@exxonmobil.com</u>
Date: 08/25/2021
Phone: 432-620-6714
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

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

VII. Operational Practices:

1. Subsection B.

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

2. Subsection C.

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

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

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

3. Subsection D.

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

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

4. Subsection E.

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

5. Subsection F.

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

VIII. Best Management Practices:

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



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

Drilling Plan Data Report

08/27/2021

APD ID: 10400067297

Submission Date: 01/10/2021

Highlighted data reflects the most

recent changes

Well Name: POKER LAKE UNIT 28-21 BS

Operator Name: XTO PERMIAN OPERATING LLC

Well Number: 107H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1254891	QUATERNARY	3349	0	0	ALLUVIUM	USEABLE WATER	N
1254892	RUSTLER	2549	800	800	SANDSTONE	USEABLE WATER	N
1254893	TOP SALT	2151	1198	1198	SALT	OTHER : Salt	N
1254894	BASE OF SALT	-683	4032	4032	SALT	NONE	N
1254895	DELAWARE	-923	4272	4272	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	N
1254896	BONE SPRING	-4845	8194	8194	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
1254897	WOLFCAMP	-8227	11576	11576	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11620

Equipment: Once the permanent WH is installed on the 11-3/4 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8 minimum 5M Hydril and a 13-5/8 minimum 5M 3-Ram BOP. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole. Permanent Wellhead – Multibowl System A. Starting Head: 13-5/8" 10M top flange x 11-3/4" SOW bottom B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange · Wellhead will be installed by manufacturer's representatives. · Manufacturer will monitor welding process to ensure appropriate temperature of seal. · Operator will test the 7-5/8" casing per BLM Onshore Order 2 · Wellhead Manufacturer representative will not be present for BOP test plug installation

Page 1 of 6

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 107H

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nippling up on the 11-3/4", 5M bradenhead and flange, the BOP test will be limited to 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU_28_21_BS_5MCM_20201226100406.pdf

BOP Diagram Attachment:

PLU_28_21_BS_5MBOP_20201226100413.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	11.75	NEW	API	N	0	1180	0	1180	3349	2169	1180	J-55	47	BUTT	2.46	1.17	DRY	8.6	DRY	8,6
2	INTERMED IATE	10.6 25	8.625	NEW	API	N	О	10600	0	10600	3329	-7251	10600	HCL -80	32	BUTT	1.43	1.1	DRY	2.16	DRY	2.16
3	PRODUCTI ON	7.87 5	5.5	NEW	API	N	0	19820	0	11620	3329	-8271	19820	P- 110	20	BUTT	1.48	1.18	DRY	2.3	DRY	2.3

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_107H_Csg_20201228062422.pdf

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 107H

Casing Attachments

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_107H_Csg_20201228062342.pdf

Casing ID: 3

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_107H_Csg_20201228062403.pdf

Se	ctic	on	4 -	Ce	m	ent

String Type	Lead/Tail	Stage Tool Depth	Тор МП	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1180	590	1.88	12.8	1109.	100	Halc-C	2% CaCL
								2			

INTERMEDIATE	Lead	1230	0	1230	70	1.35	14.8	94.5	100	Halcem-C	2% CaCl

INTERMEDIATE	Lead	1230	1230	1060	1850	1.88	12.8	3478	100	Halcem-C	2% CaCl
				U							

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 107H

String Type	Lead/Tail	Stage Tool Depth	Тор MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		1230	1060 0	310	1.33	14.8	412.3	100	Halcem-C	2% CaCl
PRODUCTION	Lead		1030 0	1982 0	2860	1.88	11.5	5376. 8	100	Halcem-C	2% CaCl
PRODUCTION	Tail		1030 0	1982 0	2860	1.35	13.2	3861	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

O Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	α Max Weight (ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1180	1060 0	OTHER : Brine / Cut Brine / Direct Emulsion	8.4	9.7					-		
1060 0	1162 0	OTHER : Cut Brine / WBM / OBM	10.8	11.8							

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 107H

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: 6525

Anticipated Surface Pressure: 3968

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

PLU_28_21_BS_H2S_Dia_20201226061200.pdf PLU_28_21_BS_H2S_Plan_20201226061206.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_28_21_BS_107H_DD_20201228062605.pdf

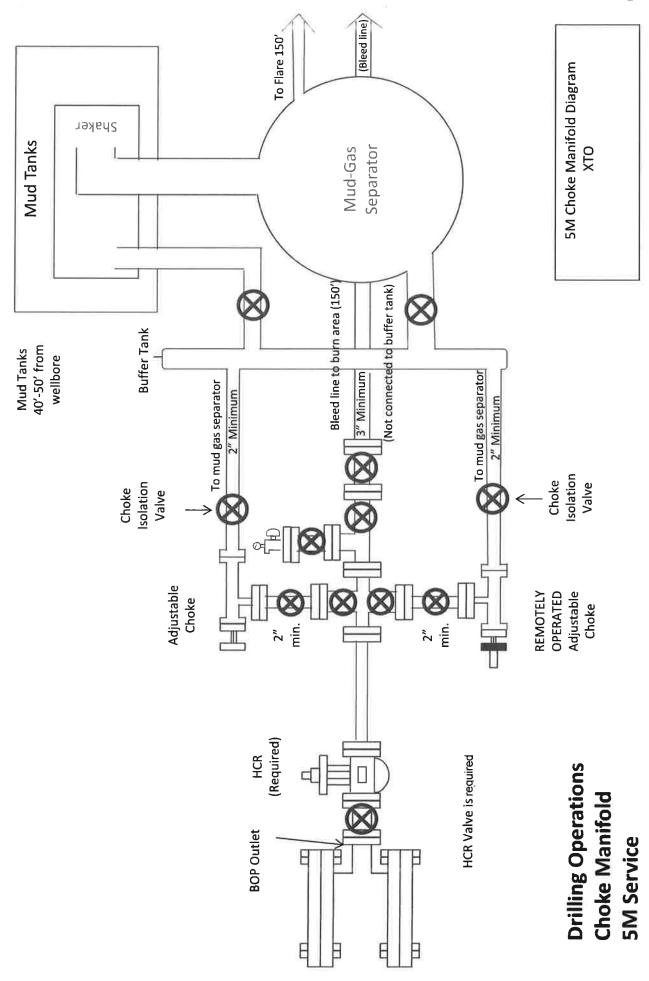
Other proposed operations facets description:

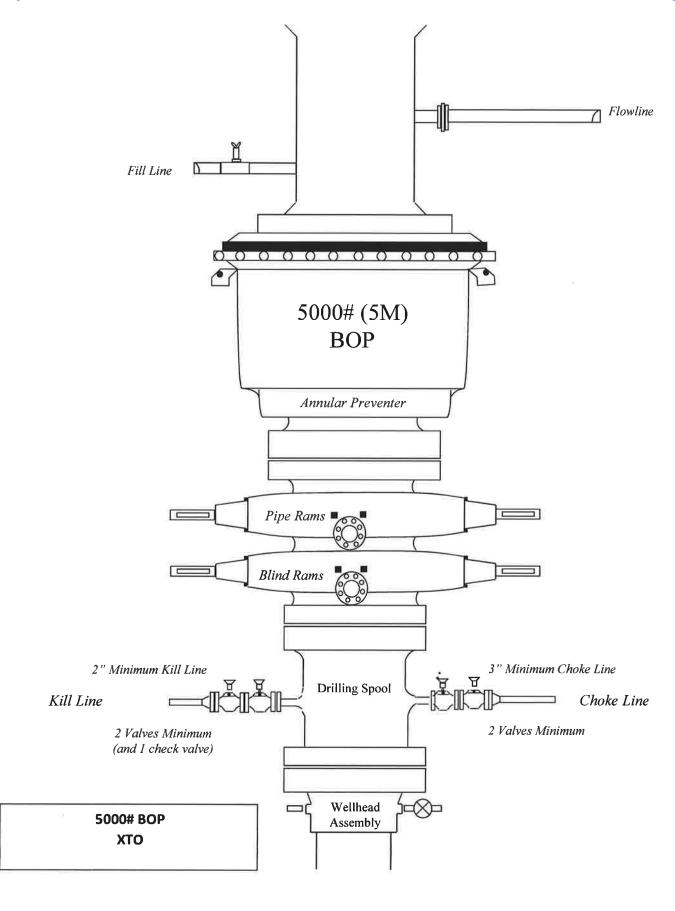
Other proposed operations facets attachment:

PLU_28_21_BS_GCP_20201226061229.pdf

Other Variance attachment:

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





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6.1

Hole Size	Depth	ODCs	Wash	Collec	- Pro-	NewTread	S.F	\$F	SF
		500 000			- Constant	2000	Burst	Collapse	Tension
14-3/4"	0'-1180'	11-3/4"	47	BTC	<u>55-</u> 1	New	1.17	2.46	8.60
10-5/8"	0, -10600	8-5/8"	32	BTC	HCL-80	New	1.10	1.43	2.16
7-7/8"	0 - 19820	5-1/2"	20	BTC	P-110	N≥₩	1.18	1.48	2.30

XTO requests to not utilize centralizers in the curve and lateral

8-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35 Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

WELLHEAD:

Permanent Wellhead - GE RSH Multibowl System

A. Starring Head (RSH System): 11-3/4" SOW bottom x 13-5/8" 5M top flange

B. Tubing Head: 13-5/8" 3M bottom flange x 7-1/16" 10M top flange

Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

Operator will test the 8-5/8" casing per Onshore Order 2.

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

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.

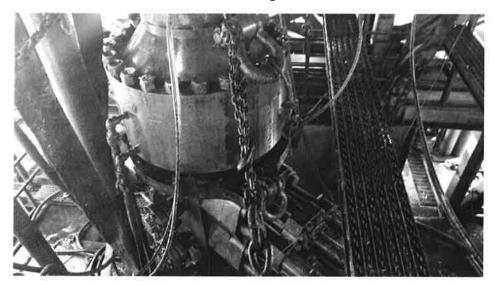


Figure 1: Winch System attached to BOP Stack

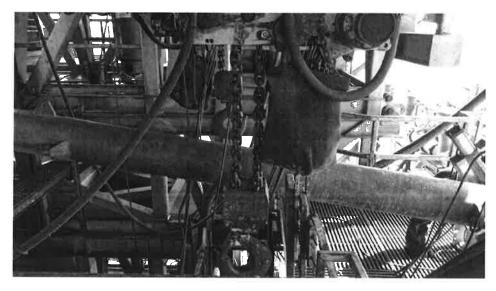


Figure 2: BOP Winch System

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 STANDARD	53	
Ta	ble C.4—Initial Pressure Te	esting, Surface BOP Stacks	
	Pressure Test—Low	Pressure Test-	-High Pressure ²⁰
Component to be Pressure Tested	Pressure ²⁰ 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, bilind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ПР
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	ПР
Choke manifold—downstream of chokes ^o	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	
No visible leaks. The pressure shall remain slable Annular(s) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections	ssure tested on the largest and sma from one wellnead to another within when the integrity of a pressure sea		program ulred for pressure-containing and
For surface offshore operations, the vented during the initial test. For locking pressure vented at comm	land operations, the ram BOPs sha	ed with the ram locks engaged and Ill be pressure tested with the ram loo	the closing and locking pressure the engaged and the closing and
Adjustable chokes are not required	to be full sealing devices. Pressure	testing against a closed choke is not	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.

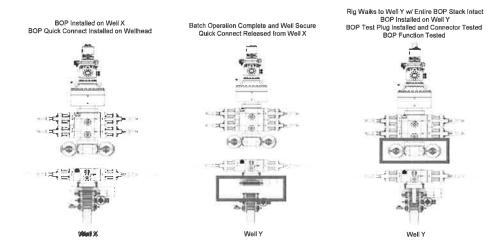
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that 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.
 - 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 22 of 50

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

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

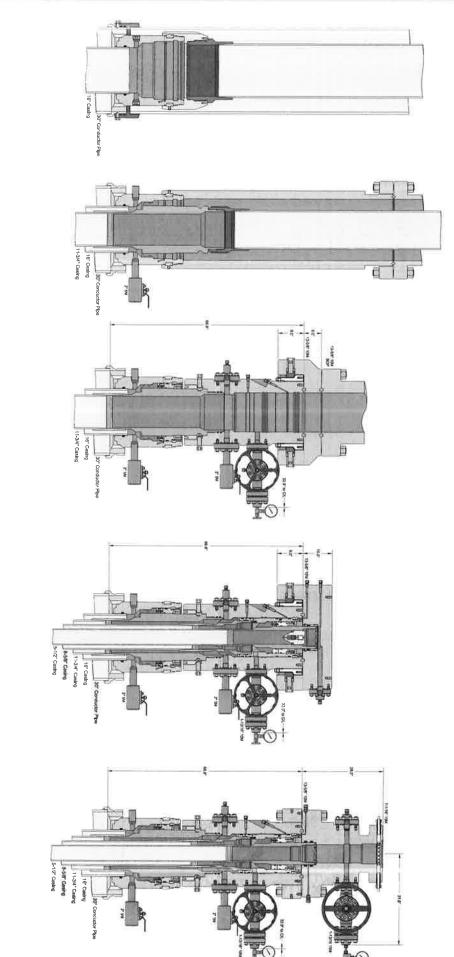
30" x 16" x 11-3/4" x 8-5/8" x 5-1/2" CRC/MBU-3T-CFL Wellhead With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head

And Drilling & Skid Configurations

HBE0000358

13JUL20

CACTUS WELLHEAD LLC



ALL DIMENSIONS APPROXIMATE

XTO ENERGY INC POTASH DLE 13

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.

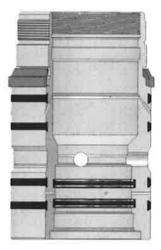
1. Cement Program

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.

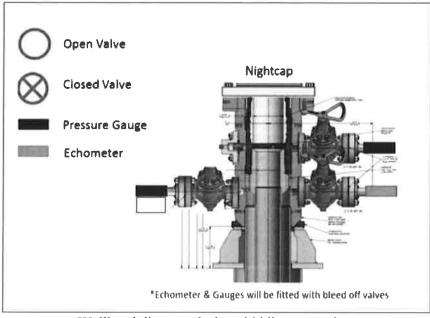
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set 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

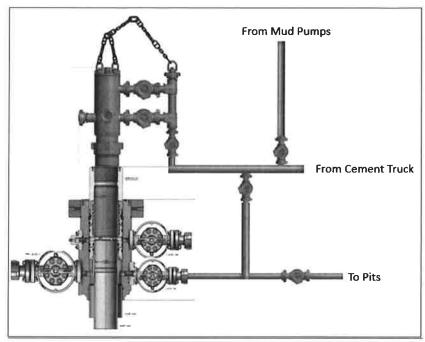
XTO Permian Operating, LLC Offline Cementing Variance Request



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.



XTO Energy

Eddy County, NM (NAD-27)
Poker Lake Unit 28-21 Big Sinks
#107H

Wellbore #1

Plan: PERMIT

Standard Planning Report

04 December, 2020

Project: Eddy County, NM (NAD-27) Site: Poker Lake Unit 28-21 Big Sinks Well: #107H PROJECT DETAILS: Eddy County, NM (NAD-27) Geodetic System US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level Wellbore: Wellbore #1 Design: PERMIT DESIGN TARGET DETAILS Name PLU28-21BS #107H: SHL (536' FNL & 770' FEL) PLU28-21BS #107H: FTP/ LP PLU28-21BS #107H: LTP PLU28-21BS #107H: PBHL (50' FNL & 1170' FEL) +E/-W 0.00 -404.90 -405.30 -405.40 Northing 403078 20 401302 90 408807 80 408857 80 Shape Point Point Point Point Longitude -103 7765000 -103 7776371 -103 7777135 -103 7777130 West(-)/East(+) (1000 usft/in) -1000 -500 500 1000 1500 2000 WELL DETAILS: #107H Rig Name: RKB = 30' @ 3379_00usR Ground Level: 3349_00 Easting 672415.90 32 -6000 +N/-S 0.00 Northing 403078.20 Latittude 32_1069540 PLU28-21B\$ #107H: PBHL (50' FNL & 1170' FEL) Longitude -103.7765000 200' Hardline/ Selback -5500 H07H/PERMIT PLU28-21BS #107H: LTP SECTION DETAILS VSect 0 00 0 00 -102 75 -2327 98 -1775 30 MD 0 00 2000 00 2774 53 11212 56 12265 47 19770 37 19820 37 Azi 0 00 0 00 189 11 189 11 0 00 0 00 0 00 TVD 0.00 2000.00 2765.13 10896.64 11620.00 11620.00 +N/-S 0 00 0 00 -102 75 -2327 98 -1775 30 5729 60 5779 60 Dleg 0 00 0 00 2 00 0 00 10 00 0 00 0 00 TFace 0 00 0 00 189 11 0 00 170 56 0 00 0 00 15 49 90 00 90 00 90 00 90 00 -5000 4500 4000 PLU28-21BS #107H: SHL (536' FNL & 770' FEL) 3500 0 3000 South(-)/North(+) (850 Salado (Top Salt) 1700 Start Build 2.00 2550-1500 (1000 usft/in) 3400 -Sec 21 Base Salt Delaware 4250--500 Sec 28 5100 rry Canyo PLU28-21BS #107H: SHL (536' FNL & 770' FEL) 5950 Depth -500 Vertical 6800 Brushy Canyor FORMATION TOP DETAILS Formation
Rusller
Salado (Top Salt)
Base Salt
Delaware
Cherry Canyon
Brushy Canyon
Bone Spring
1st Bone Spring Ss
2nd Bone Spring Ss
3rd Bone Spring Ss
wollcamp
Wollcamp
Wollcamp -1000 TVDPath 800.00 1198.00 4032.00 4272.00 5230.00 6961.00 8194.00 9226.00 True 7650 1500 Spring 8500 PLU28-2185 #107H: FTP/ LP 9226 00 10012 00 10331 00 11156 00 11576 00 11590 00 11620 00 1st Bone Spring Ss 9350 -2500 10200 Start DLS 10,00 11050 PLU28-21BS #107H: LTP #107H/PERMIT TD at 19820.37 11900 PLU20-21BS #107H FTP/ LP Wolfcamp B PLU28-21BS #107H: PBHL (50' FNL & 1170' FEL) -1700 -850 1700 Vertical Section at 0.00° (1700 usft/in) The cultimest absolid outs rely on this document after independently verifying all paths, targets, coordinates, losse and band lines represent our decisions made or wells difficult outsiring this or any other informat annihed in Prototype are at the sele risk and resomptibility of the use Plan: PERMIT (#107H/Wellbore #1) Created By Matthew May Dale: 15:22 December 04 2020

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

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

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

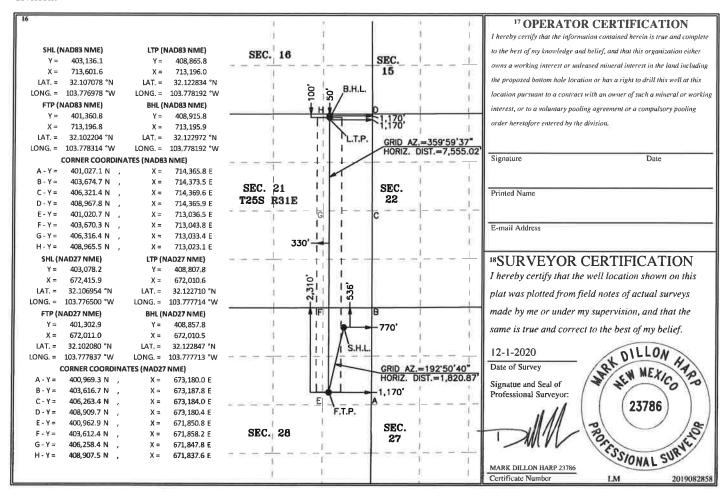
■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	1	API Number 30-015-	r		² Pool Code			³ Pool Na	me		
	⁴ Property (Code				⁵ Property	Name			⁶ Well Numb	er
					P	OKER LAKE U	NIT 28-21 BS			107H	
Ì	7 OGRID	No.				8 Operator	Name			⁹ Elevation	
	373075	5			XTC		3,349'				
- 6						10 Surface 1	Location				
	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County

UL or lot no.	Section	Lownship	Range	Lot lan	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25 S	31 E		536	NORTH	770	EAST	EDDY
			11 Bo	ttom Ho	le Location I	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
A	21	25 S	31 E		50	NORTH	1,170	EAST	EDDY
12 Dedicated Acres	¹³ Joint or	r Infill 14 C	Consolidation	Code 15 Oi	rder 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.





Database: Company: Project:

EDM 5000.1.13 Single User Db

XTO Energy

Eddy County, NM (NAD-27)

Well: Wellbore: Design:

Site:

Poker Lake Unit 28-21 Big Sinks #107H

Wellbore #1 PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well #107H

RKB = 30' @ 3379.00usft RKB = 30' @ 3379.00usft

Grid

Minimum Curvature

Project

Eddy County, NM (NAD-27)

Map System: Geo Datum:

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

Poker Lake Unit 28-21 Big Sinks

Map

System Datum:

Mean Sea Level

Map Zone:

Site

From:

New Mexico East 3001

Site Position:

Northing: Easting:

402,096.80 usft 668,754.10 usft

Latitude:

Longitude:

32,1043077 -103.7883417

Position Uncertainty:

0.00 usft

Slot Radius:

13-3/16 "

Grid Convergence:

0.29

Well

Well Position

#107H

+N/-S +E/-W

Wellbore #1

PERMIT

981.40 usft 3,661.80 usft 0.00 usft

Northing: Easting: Wellhead Elevation:

12/03/20

403,078.20 usft 672,415.90 usft Latitude: Longitude:

32.1069540 -103.7765000

Position Uncertainty

IGRF2020

0.00 usft

Ground Level:

59.78

3,349.00 usft

Wellbore

Magnetics **Model Name**

Sample Date

Declination 6.69 Dip Angle

Field Strength (nT)

47,459

Design

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 (°) 0.00

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	
2,774.53	15.49	189.11	2,765.13	-102.75	-16.47	2.00	2.00	0.00	189.11	
11,212.56	15.49	189.11	10,896.64	-2,327.98	-373.18	0.00	0.00	0.00	0.00	
12,265.47	90.00	0.00	11,620.00	-1,775.30	-404.90	10.00	7.08	16.23	170.56	PLU28-21BS #107
19,770.37	90.00	0.00	11,620.00	5,729.60	-404.74	0.00	0.00	0.00	0.00	PLU28-21BS #107
19,820.37	90.00	0.00	11,620.00	5,779.60	-404.74	0.00	0.00	0.00	0.00	PLU28-21BS #107I



Database: Company: Project: EDM 5000.1.13 Single User Db

XTO Energy

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

Well: Wellbore: Design:

Site:

#107H Wellbore #1 PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#107H

RKB = 30' @ 3379.00usft RKB = 30' @ 3379.00usft

Grid

Minimum Curvature

lanned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00									
	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
							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	
500.00						0.00	0.00		0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00			0.00			0.00		
1,200.00		0.00	1,200.00		0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00			0.00	
						0.00	0.00		0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	189.11	2,099.98	-1.72	-0.28	-1.72	2.00	2.00	0.00
							2,00		
2,200.00	4.00	189.11	2,199,84	-6.89	-1.10	-6.89	2.00	2.00	0.00
2,300.00	6.00	189.11	2,299.45	-15.50	-2.48	-15.50	2.00	2.00	0.00
2,400.00	8.00	189.11	2,398.70	-27.53	-4.41	-27.53	2.00	2.00	0.00
			•						
2,500.00	10.00	189.11	2,497.47	-42.97	-6.89	-42.97	2.00	2.00	0.00
2,600.00	12.00	189.11	2,595.62	-61.81	-9.91	-61.81	2.00	2.00	0.00
2,700.00	14.00	189,11	2,693.06	-84.02	-13.47	-84.02	2.00	2.00	0.00
							2.00		
2,774.53	15.49	189.11	2,765.13	-102.75	-16.47	-102.75	2.00	2.00	0.00
2,800.00	15.49	189.11	2,789.67	-109.47	-17.55	-109.47	0.00	0.00	0.00
2,900.00	15.49	189.11	2,886.04	-135.84	-21.78	-135.84	0.00	0.00	0.00
							0.00		
3,000.00	15.49	189.11	2,982.41	-162.21	-26.00	-162.21	0.00	0.00	0.00
3,100.00	15.49	189.11	3,078.78	-188.58	-30.23	-188.58	0.00	0.00	0.00
3,200.00	15.49	189.11	3,175.14	-214.96	-34.46	-214.96	0.00	0.00	0.00
3,300.00	15.49	189.11	3,271.51	-241.33	-38.69	-241.33	0.00	0.00	0.00
3,400.00	15.49	189.11	3,367,88	-267.70	-42.91	-267.70	0.00	0.00	0.00
3,500.00	15.49	189.11	3,464.25	-294.07	-47.14	-294.07	0.00	0.00	0.00
							0.00		
3,600.00	15.49	189.11	3,560.61	-320.44	-51.37	-320.44	0.00	0.00	0.00
3,700.00	15.49	189.11	3,656.98	-346.81	-55.60	-346.81	0.00	0.00	0.00
3,800.00	15.49	189.11	3,753.35	-373.18	-59.82	-373.18	0.00	0.00	0.00
3,900.00	15.49	189.11	3,849.72	-399.56	-64.05	-399.56	0.00	0.00	0.00
4,000.00	15.49	189.11	3,946.08	-425.93	-68.28	-425.93	0.00	0.00	0.00
4,100.00	15.49	189.11	4,042.45	-452.30	-72,51	-452.30	0.00	0.00	0.00
4,200.00	15.49	189.11	4,138.82	-478.67	-76.73	-478.67	0.00	0.00	0.00
4,300.00	15.49	189.11	4,235.18	-505.04	-80.96	-505.04	0.00	0.00	0.00
4,400.00									
	15.49	189.11	4,331.55	-531.41	-85.19	-531.41	0.00	0.00	0.00
4,500.00	15.49	189.11	4,427.92	-557.78	-89.41	-557.78	0.00	0.00	0.00
4,600.00	15.49	189.11	4,524.29	-584.15	-93.64	-584.15	0.00	0.00	0.00
4,700.00	15.49	189.11	4,620.65	-610.53		-610.53	0.00		
					-97.87			0.00	0.00
4,800,00	15.49	189.11	4,717.02	-636.90	-102.10	-636.90	0.00	0.00	0.00
4,900.00	15.49	189.11	4,813.39	-663.27	-106.32	-663.27	0.00	0.00	0.00
5,000.00	15.49	189.11	4,909.76	-689.64	-110.55	-689.64	0.00	0.00	0.00
5,100.00	15.49	189.11	5,006.12	-716.01	-114.78	-716.01	0.00	0.00	0.00
5,200.00	15.49	189.11	5,102.49	-742.38	-119.01	-742.38	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 28-21 Big Sinks

Well: #107H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #107H

RKB = 30' @ 3379.00usft RKB = 30' @ 3379.00usft

Grid

Minimum Curvature

esign:	PERMIT								
Planned Survey									
Manager			Mandiani					2004	
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5,300.00	15.49	189.11	5,198.86	-768.75	-123.23	-768.75	0.00	0.00	0.00
5,400.00	15.49	189.11	5,295.23	-795.13	-127.46	-795.13	0.00	0.00	0.00
5,500.00	15.49	189.11	5,391.59	-821.50	-131.69	-821.50	0.00	0.00	0.00
5,600.00	15.49	189.11	5,487.96	-847.87	-135.92	-847.87	0.00	0.00	0.00
5,700.00	15.49	189.11	5,584.33	-874.24	-140.14	-874.24	0.00	0.00	0.00
5,800.00	15.49	189.11	5,680.70	-900.61	-144.37	-900.61	0.00	0.00	0.00
5,900.00	15.49	189.11	5,777.06	-926.98	-148.60	-926.98	0.00	0.00	0.00
6,000.00	15.49	189.11	5,873.43	-953.35	-152.83	-953.35	0.00	0.00	0.00
6,100.00	15.49	189.11	5,969.80	-979.73	-152.05	-933.33	0.00	0.00	0.00
6,200.00	15.49	189.11	6,066.17	-1,006.10	-161.28	-1,006.10	0.00	0.00	0.00
6,300.00	15.49	189.11	6,162.53	-1,032,47	-165.51	-1,000.10	0.00	0.00	0.00
6,400.00	15.49	189.11	6,258.90	-1,058.84	-169.74	-1,058.84	0.00	0.00	0.00
6,500.00	15.49	189.11	6,355.27	-1,085.21	-173,96	-1,085.21	0.00	0.00	0.00
6,600.00	15.49	189.11	6,451.64	-1,111.58	-178.19	-1,111.58	0.00	0.00	0.00
6,700.00	15.49	189,11	6,548.00	-1,137.95	-182.42	-1,137.95	0.00	0.00	0.00
6,800.00	15.49	189.11	6,644.37	-1,164,32	-186.65	-1,164.32	0.00	0.00	0.00
6,900.00	15.49	189.11	6,740.74	-1,190.70	-190.87	-1.190.70	0.00	0.00	0.00
7,000.00	15.49	189.11	6,837.11	-1,217.07	-195.10	-1,217.07	0.00	0.00	0.00
7,100.00	15.49	189,11	6,933.47	1,243.44	-199.33	-1,243.44	0.00	0.00	0.00
7,200.00	15.49	189.11	7,029.84	-1,269.81	-203.56	-1,269.81	0.00	0.00	0.00
7,300.00	15.49	189.11	7,126.21	-1,296.18	-207.78	-1,296.18	0.00	0.00	0.00
7,400.00	15.49	189.11	7,222.58	-1,322.55	-212.01	-1,322.55	0.00	0.00	0.00
7,500.00	15.49	189.11	7,318.94	-1,348.92	-216.24	-1,348.92	0.00	0.00	0.00
7,600.00	15.49	189.11	7,415.31	-1,375.30	-220.47	-1,375.30	0.00	0.00	0.00
7,700.00	15.49	189.11	7,511.68	-1,401.67	-224.69	-1,401.67	0.00	0.00	0.00
7,800.00	15.49	189.11	7,608.04	-1,428.04	-228.92	-1,428.04	0.00	0.00	0.00
7,900.00	15.49	189.11	7,704.41	-1,454.41	-233.15	-1,454.41	0.00	0.00	0.00
8,000.00	15.49	189.11	7,800.78	-1,480.78	-237.37	-1,480.78	0.00	0.00	0.00
8,100.00	15.49	189.11	7,897.15	-1,507.15	-241.60	-1,507.15	0.00	0.00	0.00
8,200.00	15.49	189.11	7,993.51	-1,533.52	-245.83	-1,533.52	0.00	0.00	0.00
8,300.00	15.49	189.11	8,089.88	-1,559.89	-250.06	-1,559.89	0.00	0.00	0.00
8,400.00	15.49	189.11	8,186.25	-1,586.27	-254.28	-1,586.27	0.00	0.00	0.00
8,500.00	15.49	189.11	8,282.62	-1,612.64	-258.51	-1,612.64	0.00	0.00	0.00
8,600.00	15.49	189.11	8,378.98	-1,639.01	-262.74	-1,639.01	0.00	0.00	0.00
8,700.00	15.49	189.11	8,475.35	-1,665.38	-266.97	-1,665.38	0.00	0.00	0.00
8,800.00	15.49	189.11	8,571.72	-1,691.75	-271.19	-1,691.75	0.00	0.00	0.00
8,900.00	15.49	189.11	8,668.09	-1,718:12	-275.42	-1,718.12	0.00	0.00	0.00
9,000.00	15.49	189.11	8,764.45	-1,744.49	-279.65	-1,744.49	0.00	0.00	0.00
9,100.00	15.49	189.11	8,860.82	-1,770.87	-283.88	-1,770.87	0.00	0.00	0.00
9,200.00	15.49	189.11	8.957.19	-1,797.24	-288.10	-1,797.24	0.00	0.00	0.00
9,300.00	15.49	189:11	9,053.56	-1,823.61	-292.33	-1,823.61	0.00	0.00	0.00
9.400.00	15.49	189.11	9,149,92	-1.849.98	-296.56	-1,849.98	0.00	0.00	0.00
9,500.00	15.49	189.11	9,149,92	-1,849.96	-300.79	-1,049.90 -1,876.35	0.00	0.00	0.00
9,600.00	15.49	189.11	9,342.66	-1,902.72	-305.01	-1,676.33	0.00	0.00	0.00
9,700.00	15.49	189.11	9,439.03	-1,902.72	-309.24	-1,902.72	0.00	0.00	0.00
9,800.00	15.49	189.11	9,535.39	-1,955.47	-313.47	-1,929.09	0.00	0.00	0.00
9,900.00	15.49	189.11	9,631.76	-1,981.84	-317.70	-1,981.84			
10,000.00	15.49	189.11	9,728.13	-1,961.04	-317.70 -321.92	-1,981.84 -2,008.21	0.00 0.00	0:00 0.00	0.00 0.00
10,100.00	15.49	189.11	9,824.50	-2,006.21 -2,034.58	-321.92	-2,006.21 -2,034.58	0.00	0.00	0.00
10,100.00	15.49	189.11	9,920.86	-2,060.95	-320.13	-2,034.56 -2,060.95	0.00	0.00	0.00
10,300.00	15.49	189.11	10,017.23	-2,087.32	-334.61	-2,000.95 -2,087.32	0.00	0.00	0.00
10,400.00	15.49	189.11	10,113.60	-2,113.69	-338.83	-2,113.69	0.00	0.00	0.00
10,500.00 10,600.00	15.49 15.49	189.11 189.11	10,209.97 10,306.33	-2,140.06 -2,166. 44	-343.06 -347.29	-2,140.06 -2,166.44	0.00 0.00	0.00 0.00	0.00 0.00

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COMPASS 5000.1 Build 74



Database: Company: Project: Site:

EDM 5000.1.13 Single User Db

XTO Energy

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

Well: Wellbore: Design:

Wellbore #1 PERMIT **Local Co-ordinate Reference:**

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method: Well #107H

RKB = 30' @ 3379.00usft RKB = 30' @ 3379.00usft

Grid

Minimum Curvature

anned Survey									
annos ourvey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.00	15.49	189.11	10,402.70	-2,192.81	-351.52	-2,192.81	0.00	0.00	0.00
10,800.00	15.49	189.11	10,499.07	-2,219.18	-355.74	-2,219.18	0.00	0.00	0.00
10,900.00	15.49	189.11	10,595.44	-2,245.55	-359.97	-2,245.55	0.00	0.00	0.00
11,000.00	15.49	189.11	10,691.80	-2,271.92	-364.20	-2,271.92	0.00	0.00	0.00
11,100.00	15.49	189.11	10,788.17	-2,298.29	-368.43	-2,298.29	0.00	0.00	0.00
11,200.00 11,212.56	15.49	189.11	10,884.54	-2,324.66	-372.65	-2,324.66	0.00	0.00	0.00
	15.49	189.11	10,896.64	-2,327.98	-373.18	-2,327.98	0.00	0.00	0.00
11,250.00	11.81	192.11	10,933.02	-2,336.66	-374.78	-2,336.66	10.00	-9.82	8.01
11,300.00 11,350.00	7.01 2.95	200.90	10,982.33	-2,344.52	-376.94	-2,344.52	10.00	-9.61	17.59
11,400.00	4.27	238.36 324.02	11,032.14 11,082.07	-2,348.05 -2,347.22	-379.13 -381.32	-2,348.05 -2,347.22	10.00 10.00	-8.12 2.64	74.92 171.31
11,450.00	8.82	343.57	11,131.74	-2,342.03	-383.50	-2,347.22	10.00	9.09	39.11
11,500.00	13.68	349.62							
11,550.00	18.62	352.52	11,180.77 11,228.78	-2,332.54 -2,318.80	-385.65 -387.75	-2,332,54 -2,318.80	10.00 10.00	9.73 9.87	12.10 5.80
11,600.00	23.58	354.23	11,275.41	-2,300.92	-389:80	-2,310.00	10.00	9.92	3.43
11,650.00	28.55	355.38	11,320.31	-2,279.05	-391.77	-2,279.05	10.00	9.95	2.29
11,700.00	33.54	356.21	11,363.14	-2,253.34	-393.64	-2,253.34	10.00	9.96	1.66
11,750.00	38.52	356.84	11.403.56	-2,223.99	-395.42	-2,223.99	10.00	9.97	1.27
11,800.00	43.51	357.35	11,441.27	-2,191.23	-397.07	-2,191.23	10.00	9.98	1.02
11,850.00	48.50	357.78	11,475.99	-2,155.30	-398.59	-2,155.30	10.00	9.98	0.85
11,900.00	53.49	358,14	11,507.45	-2,116.48	-399.97	-2,116.48	10.00	9.98	0.73
11,950.00	58.49	358.46	11,535.41	-2,075.07	-401.20	-2,075.07	10.00	9.99	0.64
12,000.00	63.48	358.75	11,559.65	-2,031.37	-402.26	-2,031.37	10.00	9.99	0.57
12,050.00	68.48	359.01	11,580.00	-1,985.72	-403.15	-1,985.72	10.00	9.99	0.53
12,100.00	73.47	359,26	11,596.30	-1,938.48	-403.86	-1,938.48	10.00	9.99	0.49
12,150.00 12,200.00	78.46 83.46	359.49 359.71	11,608.42 11,616.27	-1,889.99 -1,840.62	-404.39 -404.74	-1,889.99 -1,840.62	10.00 10.00	9.99 9.99	0.47 0.45
12,250.00	88.45	359.93	11,619.79	-1,790.76	-404.89	-1,790.76	10.00	9.99	0.44
12,265.47	90.00	0.00	11,620.00	-1,775.30	-404.90	-1,775.30	10.00	9.99	0.44
12,300.00	90.00	0.00	11,620.00	-1,740.77	-404.90	-1,740.77	0.00	0.00	0.00
12,400.00	90.00	0.00	11,620.00	-1,640.77	-404.90	-1,640.77	0.00	0.00	0.00
12,500.00	90.00	0.00	11,620.00	-1,540.77	-404.90	-1,540.77	0.00	0.00	0.00
12,600.00	90.00	0.00	11,620.00	-1,440.77	-404.89	-1,440.77	0.00	0.00	0.00
12,700.00	90.00	0.00	11,620.00	-1,340.77	-404.89	-1,340.77	0.00	0.00	0.00
12,800.00	90.00	0.00	11,620.00	-1,240.77	-404.89	-1,240.77	0.00	0.00	0.00
12,900.00 13,000.00	90.00 90.00	0.00 0.00	11,620.00 11,620.00	-1,140.77 1,040.77	-404.89	-1,140.77	0.00	0.00	0.00
				-1,040.77	-404.88	-1,040.77	0.00	0.00	0.00
13,100.00	90.00 90.00	0.00 0.00	11,620.00	-940.77	-404.88	-940.77	0.00	0.00	0.00
13,200.00 13,300.00	90.00	0.00	11,620.00 11,620.00	-840.77 -740.77	-404.88 -404.88	-840.77 -740.77	0.00 0.00	0.00 0.00	0.00
13,400.00	90.00	0.00	11,620.00	-740.77 -640.77	-404.88 -404.88	-740.77 -640.77	0.00	0.00	0.00 0.00
13,500.00	90.00	0.00	11,620.00	-540.77	-404.87	-540.77	0.00	0.00	0.00
13,600.00	90.00	0.00	11,620.00	-440.77	-404.87	-440.77	0.00	0.00	0.00
13,700.00	90.00	0.00	11,620.00	-340.77	-404.87	-340.77	0.00	0.00	0.00
13,800.00	90.00	0.00	11,620.00	-240.77	-404.87	-240.77	0.00	0.00	0.00
13,900.00	90.00	0.00	11,620.00	-140.77	-404.87	-140.77	0.00	0.00	0.00
14,000.00	90.00	0.00	11,620.00	-40.77	-404.86	-40.77	0.00	0.00	0.00
14,100.00	90.00	0.00	11,620.00	59.23	-404.86	59.23	0.00	0.00	0.00
14,200.00	90.00	0.00	11,620.00	159.23	-404.86	159.23	0.00	0.00	0.00
14,300.00	90.00	0.00	11,620.00	259.23	-404.86	259.23	0.00	0.00	0.00
14,400.00	90.00	0.00	11,620.00	359.23	-404.86	359.23	0.00	0.00	0.00
14,500.00	90.00	0.00	11,620.00	459.23	-404.85	459.23	0.00	0.00	0.00
14,600.00	90.00	0.00	11,620.00	559.23	-404.85	559.23	0.00	0.00	0.00
14,700.00	90.00	0.00	11,620.00	659.23	-404.85	659.23	0.00	0.00	0.00

12/04/20 3:20:18PM

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COMPASS 5000.1 Build 74



Database: Company: Project: Site: EDM 5000.1.13 Single User Db

XTO Energy

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

Well: Wellbore: Design: #107H Wellbore #1 PERMIT Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method: Well #107H

RKB = 30' @ 3379.00usft RKB = 30' @ 3379.00usft

Grid

Minimum Curvature

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)
14,800.00	90.00	0.00	11,620.00	759.23	-404.85	759.23	0.00	0.00	0.00
14,900.00	90.00	0.00	11,620.00	859.23	-404.84	859.23	0.00	0.00	0.00
15,000.00	90.00	0.00	11,620.00	959.23	-404.84	959.23	0.00	0.00	0.00
15,100.00 15,200.00 15,300.00 15,400.00 15,500.00	90.00 90.00 90.00 90.00 90.00	0.00 0.00 0.00 0.00 0.00	11,620.00 11,620.00 11,620.00 11,620.00 11,620.00	1,059.23 1,159.23 1,259.23 1,359.23 1,459.23	-404.84 -404.84 -404.83 -404.83	1,059.23 1,159.23 1,259.23 1,359.23 1,459.23	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
15,600.00	90.00	0.00	11,620.00	1,559.23	-404.83	1,559.23	0.00	0.00	0.00
15,700.00	90.00	0.00	11,620.00	1,659.23	-404.83	1,659.23	0.00	0.00	0.00
15,800.00	90.00	0.00	11,620.00	1,759.23	-404.83	1,759.23	0.00	0.00	0.00
15,900.00	90.00	0.00	11,620.00	1,859.23	-404.82	1,859.23	0.00	0.00	0.00
16,000.00	90.00	0.00	11,620.00	1,959.23	-404.82	1,959.23	0.00	0.00	0.00
16,100.00 16,200.00 16,300.00 16,400.00 16,500.00	90.00 90.00 90.00 90.00 90.00	0.00 0.00 0.00 0.00 0.00	11,620.00 11,620.00 11,620.00 11,620.00 11,620.00	2,059.23 2,159.23 2,259.23 2,359.23 2,459.23	-404.82 -404.82 -404.81 -404.81	2,059.23 2,159.23 2,259.23 2,359.23 2,459.23	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
16,600.00	90.00	0.00	11,620.00	2,559.23	-404.81	2,559.23	0.00	0.00	0.00
16,700.00	90.00	0.00	11,620.00	2,659.23	-404.81	2,659.23	0.00	0.00	0.00
16,800.00	90.00	0.00	11,620.00	2,759.23	-404.80	2,759.23	0.00	0.00	0.00
16,900.00	90.00	0.00	11,620.00	2,859.23	-404.80	2,859.23	0.00	0.00	0.00
17,000.00	90.00	0.00	11,620.00	2,959.23	-404.80	2,959.23	0.00	0.00	0.00
17,100.00 17,200.00 17,300.00 17,400.00 17,500.00	90.00 90.00 90.00 90.00 90.00	0.00 0.00 0.00 0.00 0.00	11,620.00 11,620.00 11,620.00 11,620.00 11,620.00	3,059.23 3,159.23 3,259.23 3,359.23 3,459.23	-404.80 -404.79 -404.79 -404.79	3,059.23 3,159.23 3,259.23 3,359.23 3,459.23	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
17,600.00	90.00	0.00	11,620.00	3,559.23	-404.79	3,559.23	0.00	0.00	0.00
17,700.00	90.00	0.00	11,620.00	3,659.23	-404.79	3,659.23	0.00	0.00	0.00
17,800.00	90.00	0.00	11,620.00	3,759.23	-404.78	3,759.23	0.00	0.00	0.00
17,900.00	90.00	0.00	11,620.00	3,859.23	-404.78	3,859.23	0.00	0.00	0.00
18,000.00	90.00	0.00	11,620.00	3,959.23	-404.78	3,959.23	0.00	0.00	0.00
18,100.00 18,200.00 18,300.00 18,400.00 18,500.00	90.00 90.00 90.00 90.00 90.00	0.00 0.00 0.00 0.00 0.00	11,620.00 11,620.00 11,620.00 11,620.00 11,620.00	4,059.23 4,159.23 4,259.23 4,359.23 4,459.23	-404.78 -404.77 -404.77 -404.77	4,059.23 4,159.23 4,259.23 4,359.23 4,459.23	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
18,600.00	90.00	0.00	11,620.00	4,559.23	-404.77	4,559.23	0.00	0.00	0.00
18,700.00	90.00	0.00	11,620.00	4,659.23	-404.76	4,659.23	0.00	0.00	0.00
18,800.00	90.00	0.00	11,620.00	4,759.23	-404.76	4,759.23	0.00	0.00	0.00
18,900.00	90.00	0.00	11,620.00	4,859.23	-404.76	4,859.23	0.00	0.00	0.00
19,000.00	90.00	0.00	11,620.00	4,959.23	-404.76	4,959.23	0.00	0.00	0.00
19,100.00	90.00	0.00	11,620.00	5,059.23	-404.76	5,059.23	0.00	0.00	0.00
19,200.00	90.00	0.00	11,620.00	5,159.23	-404.75	5,159.23	0.00	0.00	0.00
19,300.00	90.00	0.00	11,620.00	5,259.23	-404.75	5,259.23	0.00	0.00	0.00
19,400.00	90.00	0.00	11,620.00	5,359.23	-404.75	5,359.23	0.00	0.00	0.00
19,500.00	90.00	0.00	11,620.00	5,459.23	-404.75	5,459.23	0.00	0.00	0.00
19,600.00	90.00	0.00	11,620.00	5,559.23	-404.75	5,559.23	0.00	0.00	0.00
19,700.00	90.00	0.00	11,620.00	5,659.23	-404.74	5,659.23	0.00	0.00	0.00
19,770.37	90.00	0.00	11,620.00	5,729.60	-404.74	5,729.60	0.00	0.00	0.00
19,800.00	90.00	0.00	11,620.00	5,759.23	-404.74	5,759.23	0.00	0.00	0.00
19,820.37	90.00	0.00	11,620.00	5,779.60	-404.74	5,779.60	0.00	0.00	0.00



Database: Company:

EDM 5000.1.13 Single User Db

XTO Energy

Project: Site: Well:

Wellbore:

Design:

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

Wellbore #1 **PERMIT**

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #107H

RKB = 30' @ 3379.00usft RKB = 30' @ 3379.00usft

Grid

Minimum Curvature

Design Targets									
Target Name - hlt/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU28-21BS #107H: - plan hits target o - Point	0.00 enter	0.00	0.00	0.00	0.00	403,078.20	672,415.90	32,1069540	-103.7765000
PLU28-21BS #107H: - plan misses targ - Point	0.00 et center by		11,620.00 19770.37u	5,729.60 sft MD (1162	-405.30 0.00 TVD, 57	408,807.80 729.60 N, -404.74	672,010.60 I E)	32.1227100	-103.777713
PLU28-21BS #107H: - plan hits target o - Point	0.00 enter	0.00	11,620.00	-1,775.30	-404.90	401,302.90	672,011.00	32.1020796	-103. 7778 37
PLU28-21BS #107H: - plan misses targ - Point	0.00 et center by		11,620.00 19820.37u	5,779.60 sft MD (11620	-405.40 0,00 TVD, 57	408,857.80 779.60 N, -404.74	672,010.50 I E)	32.1228474	-103.7777130

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
800.00	803.00	Rustler				
1,198.00	1,201.00	Salado (Top Salt)				
4,089.16	4,035.00	Base Salt				
4,338.20	4,275.00	Delaware				
5,332.31	5,233.00	Cherry Canyon				
7,128.57	6,964.00	Brushy Canyon				
8,408.04	8,197.00	Bone Spring				
9,478.94	9,229.00	1st Bone Spring Ss				
10,294.57	10,015.00	2nd Bone Spring Ss				
10,625.60	10,334.00	3rd Bone Spring Lm				
11,474.64	11,159.00	3rd Bone Spring Ss				
12,039.35	11,579.00	Wolfcamp				
12,079.15	11,593.00	Wolfcamp X				
12,265,47	11,623.00	LP				

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | XTO Permian Operating, LLC

LEASE NO.: | NMLC-062140A

WELL NAME & NO.: | Poker Lake Unit 28-21 BS 107H

SURFACE HOLE FOOTAGE: | 0536' FNL & 0770' FEL

BOTTOM HOLE FOOTAGE | 0050' FNL & 1170' FEL Sec. 21, T.25 S., R.31 E.

LOCATION: | Section 28, T.25 S., R.31 E., NMPM

COUNTY: Eddy County, New Mexico

COA

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

Medium Cave/Karst

Possibility of water flows in the Salado and Castile.

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

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 11-3/4 inch surface casing shall be set at approximately 1180 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

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

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

BOP Break Testing Variance

- 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)

Unit Wells

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

Commercial Well Determination

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

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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)
- 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.

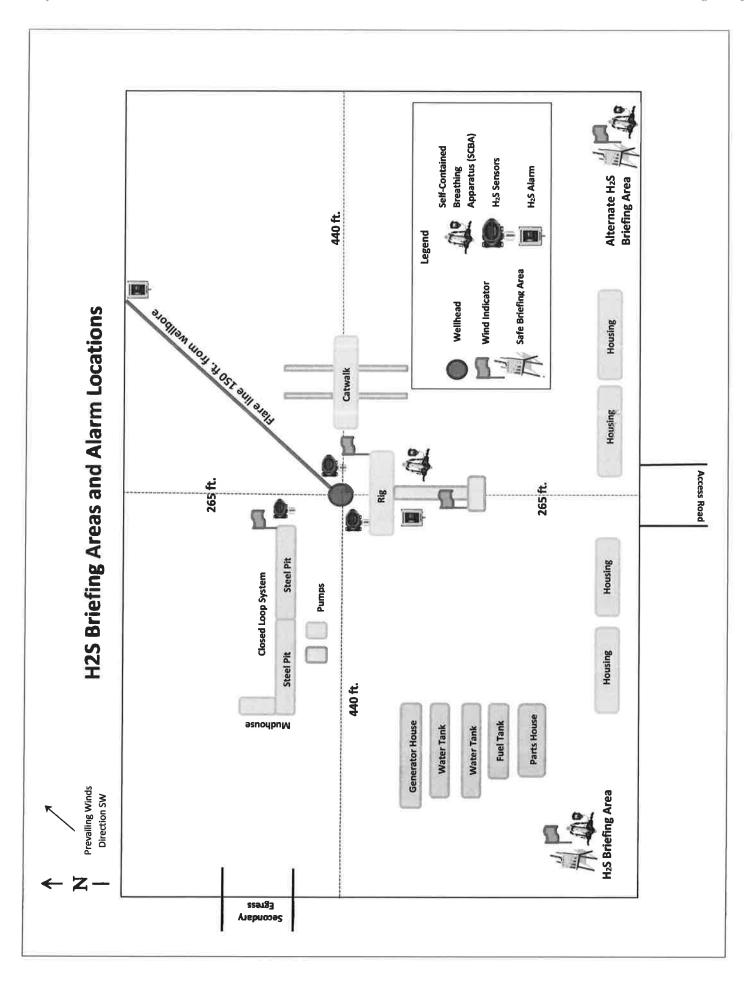
D. WASTE MATERIAL AND FLUIDS

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.

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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	H₂S	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).

<u>CARLSBAD OFFICE – EDDY & LEA COUNTIES</u>

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28-21 BS

Well Number: 107H

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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**

COMMENTS

Action 47842

COMMENTS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
	Action Number:
MIDLAND, TX 79707	47842
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 9/13/2021	9/13/2021

District I
1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 47842

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	47842
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created	Condition	Condition
Ву		Date
kpickford	Will require a administrative order for non-standard location prior to placing the well on production	9/13/2021
kpickford	Notify OCD 24 hours prior to casing & cement	9/13/2021
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/13/2021
	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	9/13/2021
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	9/13/2021
	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	9/13/2021