*(Instructions on page 2)

Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE IN	NTERIOR			OMB N Expires: J 5. Lease Serial No.		137		
BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D				NMLC062140A 6. If Indian, Allotee	e or Tribe	Name		
				7. If Unit or CA Ag	reement.	Name and No.		
	EENTER her			POKER LAKE / NMNM 0071016Z				
	ngle Zone	Multiple Zone		8. Lease Name and POKER LAKE UN		BS		
2. Name of Operator XTO PERMIAN OPERATING LLC				105H 9. API Well No. 30	0-015	-54397		
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970	le)	10. Field and Pool, PURPLE SAGE/W						
4. Location of Well (Report location clearly and in accordance w At surface NWNE / 537 FNL / 1422 FEL / LAT 32.1070 At proposed prod. zone NWNE / 50 FNL / 2010 FEL / LAT	89 / LONG	-103.796299	082	11. Sec., T. R. M. o SEC 29/T25S/R31		Survey or Area		
14. Distance in miles and direction from nearest town or post office 27 miles				12. County or Paris EDDY	h	13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease 17. Space 480.0			ng Unit dedicated to t	this well	I		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 				/BIA Bond No. in file)B000050				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3359 feet	22. Approxi 06/19/2021	mate date work will	start*	23. Estimated durat 45 days	ion			
	24. Attac	hments						
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil							
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office) 		Item 20 above). 5. Operator certific	cation.	is unless covered by an mation and/or plans as	-			
SUPO must be filed with the appropriate Forest Service Office)		BLM.						
25. Signature (Electronic Submission)		(Printed/Typed) IE EVANS / Ph: (4	132) 682-8	3873	Date 01/20/2	021		
Title Regulatory Analyst								
Approved by (Signature) (Electronic Submission)		(Printed/Typed) (LAYTON / Ph: (5	75) 234-59	959	Date 10/22/2	021		
Title Assistant Field Manager Lands & Minerals	Office Carlst	ad Field Office						
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal	or equitable title to the	nose rights	in the subject lease w	hich wou	d entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma of the United States any false, fictitious or fraudulent statements o	ake it a crime or representat	e for any person know ions as to any matter	wingly and within its	willfully to make to a jurisdiction.	any depar	tment or agency		
		TH CONDIT	IONS					

Approval Date: 10/22/2021

(Continued on page 2)

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

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

AND A ODEA OF DEDICATION DI AT

WELL LOCATION

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

AMENDED REPORT

			WELL L	J CAILO	IN AND ACK	KEAGE DEDIC	ATION FLA	1						
1	API Numbe	r		² Pool Code	2		³ Pool Na	me						
	30-015-	54397		98220 PURPLE SAGE; WOLFCAMP										
⁴ Property (Code				⁵ Property	Name			⁶ Well Number					
33180	04		POKER LAKE UNIT 29-20 BS 105H											
⁷ OGRID	No.		⁸ Operator Name											
37307:	5			XTO PERMIAN OPERATING, LLC. 3,359'										
¹⁰ Surface Location														
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County				
В	29	25 S	31 E		537	NORTH	1,422	EAS	T	EDDY				
			¹¹ Bo	ttom Hol	e Location I	f Different Fror	n Surface							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/	West line	County				
В	20	25 S	31 E		50	NORTH	2,010	EAS	Т	EDDY				
¹² Dedicated Acres	13 Joint of	r Infill	⁴ Consolidation	Code ¹⁵ Or	ie ¹⁵ Order No.									
480														

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

16							1	¹⁷ OPERATOR CERTIFICATION
SHL (NAD83 NME)	LTP (M	AD83 NME)					I hereby certify that the information contained herein is true and complete
Y =	403,109.6	Y =	408,842.3					to the best of my knowledge and belief, and that this organization either
X =	707,618.9	X =	707,038.1					
LAT. =	32.107089 °N	LAT. =	32.122855 °N					owns a working interest or unleased mineral interest in the land including
LONG. =	103.796299 °W	LONG. =	103.798083 °W	1 - M 3	·			the proposed bottom hole location or has a right to drill this well at this
FTP (NAD83 NME)	•	AD83 NME)	SEC	. 17		SEC.	location pursuant to a contract with an owner of such a mineral or working
Y=	401,332.6	Y =	408,892.3			Зо в.н.L.	16	interest, or to a voluntary pooling agreement or a compulsory pooling
X =	707,032.7	X =	707,038.2			B.H.L.		
LAT. =	32.102212 °N	LAT. =	32.122993 °N		1	р и и		order heretofore entered by the division.
LONG. =	103.798221 °W	LONG. =	103.798082 °W				2,818	Casoi Evans 12/04/2020
	CORNER COORDINA	•				L.T.P.	2,010	Cassa Wang 12/04/2020
A - Y ≃	400,984.0 N ,	X =	706,383.3 E			1	1	Signature Date
B - Y =	403,638.5 N ,	X =	706,397.9 E					
C - Y =	406,293.2 N ,	X =	706,375.6 E				.=00'02'28"	Cassie Evans
D-Y=	408,939.3 N ,	X =	706,353.5 E				DIST.=7.559.72'	Printed Name
E - Y =	400,992.8 N ,	X =	707,713.2 E			I I HORIZE	1	
F - Y =	403,647.2 N ,	X =	707,718.9 E		al.	1 1	,	cassie_evans@xtoenergy.com
G - Y =	406,297.4 N ,	X =	707,710.8 E					E-mail Address
H - Y =	408,945.3 N ,	X =	707,700.8 E		1		CEC	
	NAD27 NME)		AD27 NME)	SEC.			SEC. 21	
Y =	403,051.6	Y =	408,784.2	T25S	R31E	► <u>3</u> 30'	21	¹⁸SURVEYOR CERTIFICATION
X =	666,433.3	X =	665,852.8		1		and the second second	
LAT. =	32.106964 °N	LAT. =	32.122731 °N		1			I hereby certify that the well location shown on this
LONG. =		LONG. =	103.797604 °W		4		1	plat was plotted from field notes of actual surveys
	NAD27 NME)	•	IAD27 NME)			37		
Y =	401,274.7	Y =	408,834.2					made by me or under my supervision, and that the
X =	665,847.1	X =	665,852.8			B		same is true and correct to the best of my belief.
LAT. =	32.102088 °N	LAT. =	32.122868 °N				4 499	sume is true and correct to the best of my better.
	103.797743 °W		103.797603 °W		1		► 1,422 [']	12-3-2020
	CORNER COORDINA	-	-		1	S.H.L.		
A - Y =	400,926.1 N ,	X =	665,197.6 E					Date of Survey
B-Y=	403,580.5 N ,	X =	665,212.3 E		ŝ	GRID AZ	.=198°15'22"	Signatue and Seal of
C-Y=	406,235.2 N ,	X =	665,190.2 E			I /I HORIZ.	DIST.=1.871.17	Professional Surveyor:
D-Y=	408,881.2 N ,	X =	665,168.1 E					(23786)
E-Y=	400,934.9 N ,	X =	666,527.5 E			A	2,010	
F-Y=	403,589.2 N ,	X =	666,533.4 E			F.T.P.		TRO
G-Y=	406,239.3 N , 408,887.2 N ,	X =	666,525.3 E 666,515.5 E			F.I.F.	1 1	
H - Y =	400,007.2 N ,	X =	000,513.5 E	SEC.	29	4	SEC.	- WILLY Free ont
				520.	20		28	SIONAL SUR
								MARK DILLON HARP 23786
							1	Certificate Number LM 2019082880

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

		1220 Sout	rvation Division h St. Francis Dr. e, NM 87505			
	NATUI		MANAGEMEN	T PLAN		
This Natural Gas Management P	an must be su	bmitted with ea	ach Application for Peri	mit to Drill (APL	D) for a new or	recompleted well.
	<u>•</u>		- Plan Description we May 25, 2021	<u>on</u>		
I On another VTO Densities Of					Data: 5	124/2022
I. Operator: <u>XTO Permian Op</u>	erating		OGRID: <u>373075</u>	<u> </u>	Date: <u>5</u>	/24/2023_
II. Type: ⊠ Original □ Ameno If Other, please describe:				27.9.D(6)(b) NM	IAC 🗆 Other.	
III. Well(s): Provide the following be recompleted from a single we	ll pad or conne	ected to a centra	al delivery point.			
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Poker Lake Unit 29-20 BS 102H		C-29-25S-31E	531'FNL & 1575'FWL	2000 BBL/D	3500 MCF/D	2500 BBL/D
Poker Lake Unit 29-20 BS 121H		C-29-25S-31E	531'FNL & 1515'FWL	2000 BBL/D	3500 MCF/D	2500 BBL/D
Poker Lake Unit 29-20 BS 105H		B-29-25S-31E	537' FNL & 1422' FEL	2000 BBL/D	3500 MCF/D	2500 BBL/D
Poker Lake Unit 29-20 BS 126H		B-29-25S-31E	537' FNL & 1452' FEL	2000 BBL/D	3500 MCF/D	2500 BBL/D
Poker Lake Unit 29-20 BS 122H		C-29-25S-31E	531'FNL & 1545'FWL	2000 BBL/D	3500 MCF/D	2500 BBL/D
IV. Central Delivery Point Nan	1e: <u>PLU 29 (</u>	<u>CTBE & PLU 2</u>	9 CTBW [See 19.1	5.27.9(D)(1) NM	IAC]	
V. Anticipated Schedule: Provide proposed to be recompleted from					of wells propos	ed to be drilled or
					Initial	ed to be drilled or First Production Date
proposed to be recompleted from Well Name	a single well	Spud Date	ed to a central delivery	point. Completion Commencem ent Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 29-20 BS 102H	a single well	Spud Date	TD Reached Date	Completion Commencem ent Date TBD	Initial Flow Back Date TBD	First Production Date TBD
Proposed to be recompleted from Well Name Poker Lake Unit 29-20 BS 102H Poker Lake Unit 29-20 BS 121H	a single well	Spud Date TBD TBD	TD Reached Date TBD TBD TBD	point. Completion Commencem ent Date TBD TBD	Initial Flow Back Date TBD TBD	First Production Date TBD TBD
Proposed to be recompleted from Well Name Poker Lake Unit 29-20 BS 102H Poker Lake Unit 29-20 BS 121H Poker Lake Unit 29-20 BS 105H	a single well	Spud Date Spud Date TBD TBD TBD	TD Reached Date TD Reached Date TBD TBD TBD TBD	point. Completion Commencem ent Date TBD TBD TBD	Initial Flow Back Date TBD TBD TBD	First Production Date TBD TBD TBD
proposed to be recompleted from	a single well	Spud Date TBD TBD	TD Reached Date TBD TBD TBD	point. Completion Commencem ent Date TBD TBD	Initial Flow Back Date TBD TBD	First Production Date 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: \square Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

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

 \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

 \boxtimes 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. \boxtimes 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 – *Updated NGMP will be submitted prior to well completion. See attachments.*

Venting and Flaring Plan. \Box 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.

Signature: Casoi Wang-											
Printed Name: Cassie Evans											
Title: Regulatory Coordinator											
E-mail Address: cassie.evans@exxonmobil.com											
Date: 11/28/23											
Phone: 432-214-7887											
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)											
(only upprouse when submitted us a sumation 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.

11/29/2023

Drilling Plan Data Report

VAFMSS

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

		and the second of the second
APD ID: 10400067843	Submission Date: 01/20/2021	Highlighted data reflects the most
Operator Name: XTO PERMIAN OPERATING LLC		recent changes
Well Name: POKER LAKE UNIT 29-20 BS	Well Number: 105H	
Well Type: CONVENTIONAL GAS WELL	Well Work Type: Drill	Show Final Text

Section 1 - Geologic Formations

Formation	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
7721931	QUATERNARY	3359	0	0	ALLUVIUM	USEABLE WATER	N
7721932	RUSTLER	2467	892	892	SANDSTONE	USEABLE WATER	N
7721933	TOP SALT	2107	1252	1252	SALT	OTHER : Salt	N
7721934	BASE OF SALT	-622	3981	3981	SALT	NONE	N
7721935	DELAWARE	-845	4204	4204	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	N
7721936	BONE SPRING	-4747	8106	8106	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
7721930	BONE SPRINGS	-4748	8107	8107	SANDSTONE, SHALE	CO2, NATURAL GAS, OIL	N
7721937	WOLFCAMP	-8113	11472	11472	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11531

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29-20 BS

Well Number: 105H

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

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_29_20_BS_5MCM_20210112071023.pdf

BOP Diagram Attachment:

PLU_29_20_BS_5MBOP_20210112071042.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	1220	0	1220	3359	2139		J-55				1.17		8.32		8.32
2		10.6 25	8.625	NEW	API	N	0	10600	0	10600	3329	-7241	10600	HCL -80	32					2.16		2.16
3	PRODUCTI ON	7.87 5	5.5	NEW	API	N	0	19749	0	11531	3329	-8172	19749	P- 110	20	BUTT	1.61	1.18	DRY	1.69	DRY	1.69

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H
Casing Attachments
Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
PLU_29_20_BS_105H_csg_20210118103116.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
PLU_29_20_BS_105H_csg_20210118103012.pdf
Casing ID: 3 String PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
PLU_29_20_BS_105H_csg_20210118103054.pdf

Section 4 - Cement

.

Well Name: POKER LAKE UNIT 29-20 BS

Well Number: 105H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1220	610	1.88	12.8	1066. 73	100	Halc-C	2% CaCL

INTERMEDIATE	Lead	1220	0	1270	80	1.35	14.8	94.5	100	Halcem-C	2% CaCl

INTERMEDIATE	Lead	1270	1270	1060 0	1840	1.88	12.8	3473. 35	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail		1270	1060 0	310	1.33	14.8	419.9 9	100	Halcem-C	2% CaCl
PRODUCTION	Lead		1060 0	1974 9	2850	1.88	11.5	3794	100	Halcem-C	2% CaCl
PRODUCTION	Tail		1060 0	2850	2850	1.35	13.2	3794	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

Well Name: POKER LAKE UNIT 29-20 BS

Well Number: 105H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1220	SPUD MUD	8.4	8.8							
1220	1060 0	OTHER : Brine / Cut Brine / Direct Emulsion	8.7	9.8							
1060 0	1974 9	OTHER : Cut Brine / WBM / OBM	11.2	11.8							

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: 6896

Anticipated Surface Pressure: 4359

Anticipated Bottom Hole Temperature(F): 80

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

PLU_29_20_BS_H2S_Dia_20210112072929.pdf PLU_29_20_BS_H2S_Plan_20210112072948.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29-20 BS

Well Number: 105H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_29_20_BS_DD_20210118103414.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PLU_29_20_BS_GCP_20210112073211.pdf

Other Variance attachment:

PLU_29_20_BS_BOP_BTV_20210112073239.pdf PLU_29_20_BS_BatchSpud_20210112073251.pdf PLU_29_20_BS_MBS_20210112073313.pdf PLU_29_20_BS_OFCV_20210112073328.pdf

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 1220'	11-3/4"	47	BTC	J-55	New	1.17	2.38	8.32
10-5/8"	0' – 10600'	8-5/8"	32	BTC	HCL-80	New	1.25	1.43	2.16
7-7/8"	0' – 19749'	5-1/2"	20	BTC	P-110	New	1.18	1.61	1.69

 \cdot 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

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.

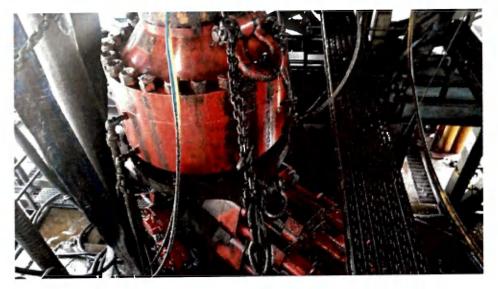


Figure 1: Winch System attached to BOP Stack



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.

		Pressure Test—High Pressure*				
Component to be Pressure Tested	Pressure Test—Low Pressure [≫] psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket			
Annutar preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.			
Fixed pipe, variable bore, blind, and BSR preventers ⁵⁴	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP			
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP			
Choke manifold—upstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	пр			
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or k whichever is lower	ASP 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 stable Annutaris) and VBR(s) shall be of	ressure tested on the largest and sm	pressure shall not decrease below the callest OD drill pipe to be used in well in the 21 days, pressure testing is req	program.			

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.

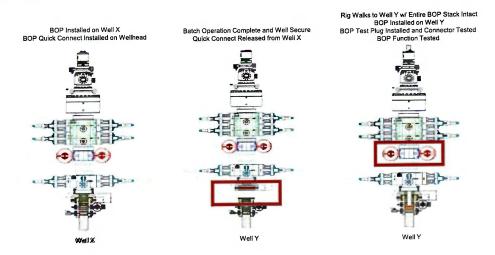
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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

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

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

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



Summary

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

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

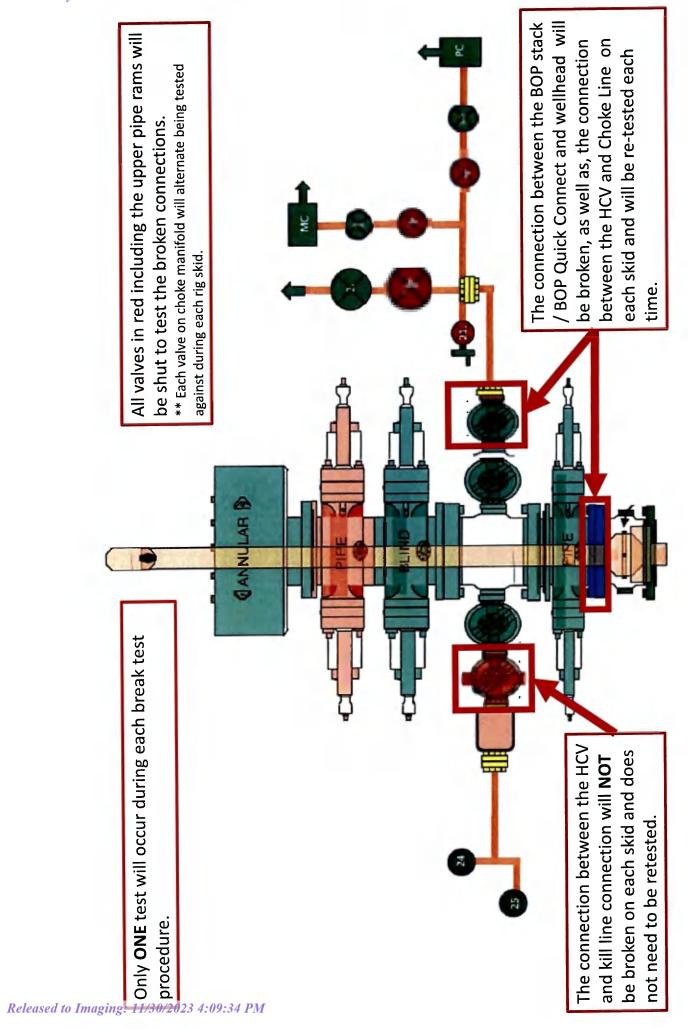
Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.

2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

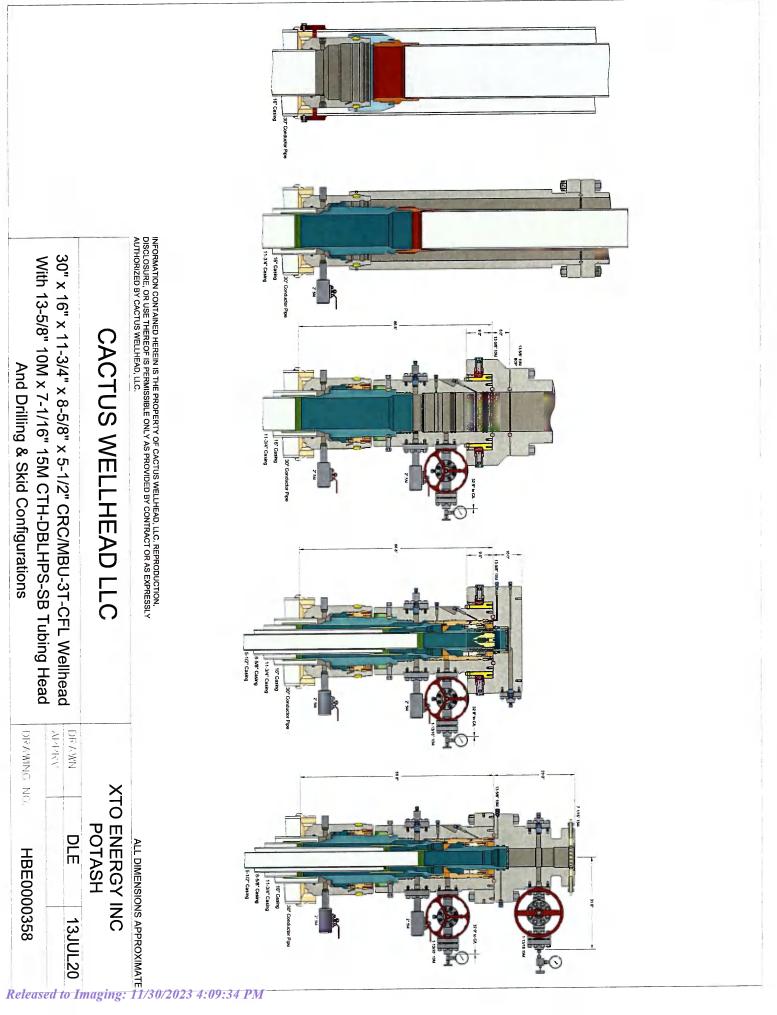
4. Full BOP test will be required prior to drilling the production hole.



XTO 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.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.



XTO Permian Operating, LLC Offline Cementing Variance Request

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

1. Cement Program

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

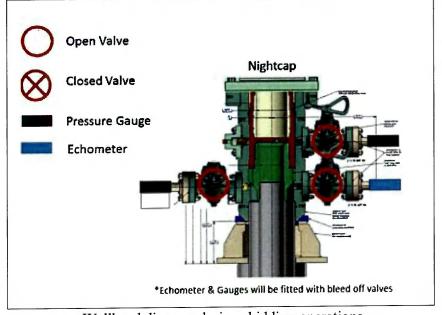
2. Offline Cementing Procedure

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

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



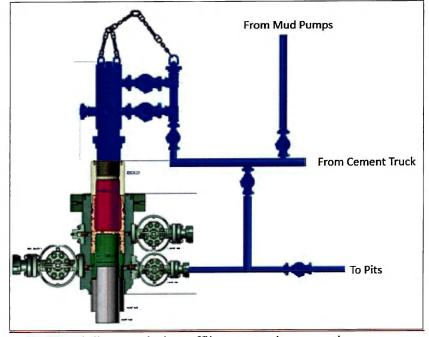
Annular packoff with both external and internal seals



XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during skidding operations

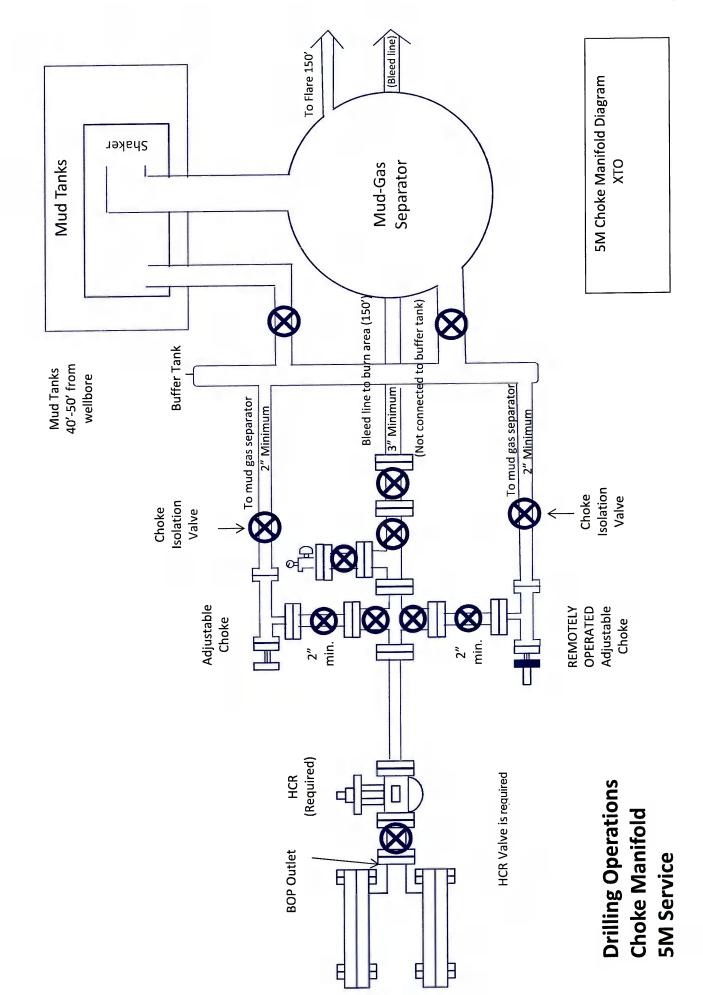
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - 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

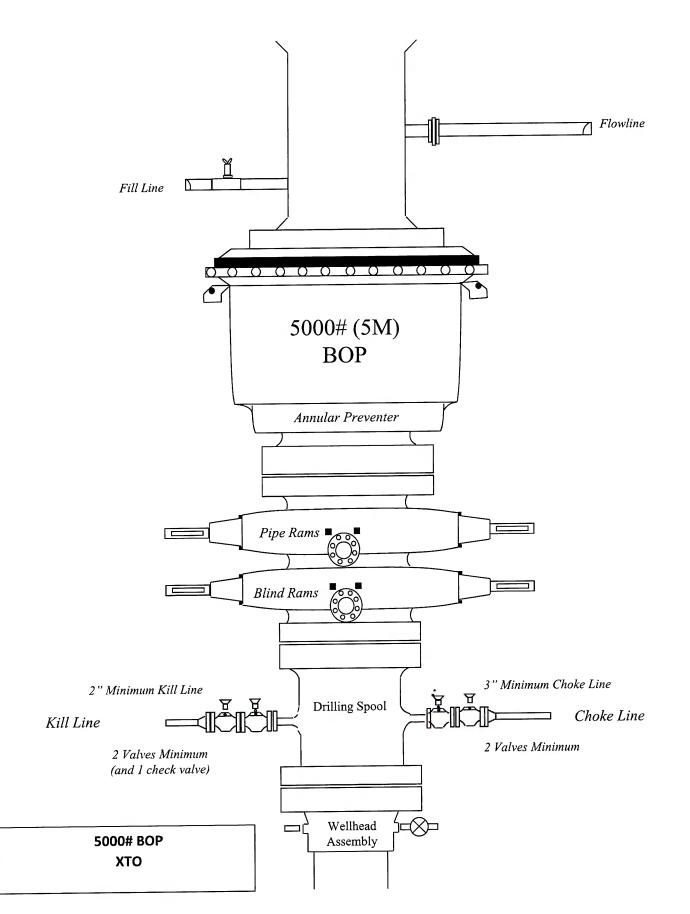


XTO Permian Operating, LLC Offline Cementing Variance Request

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 29-20 Big Sinks #105H

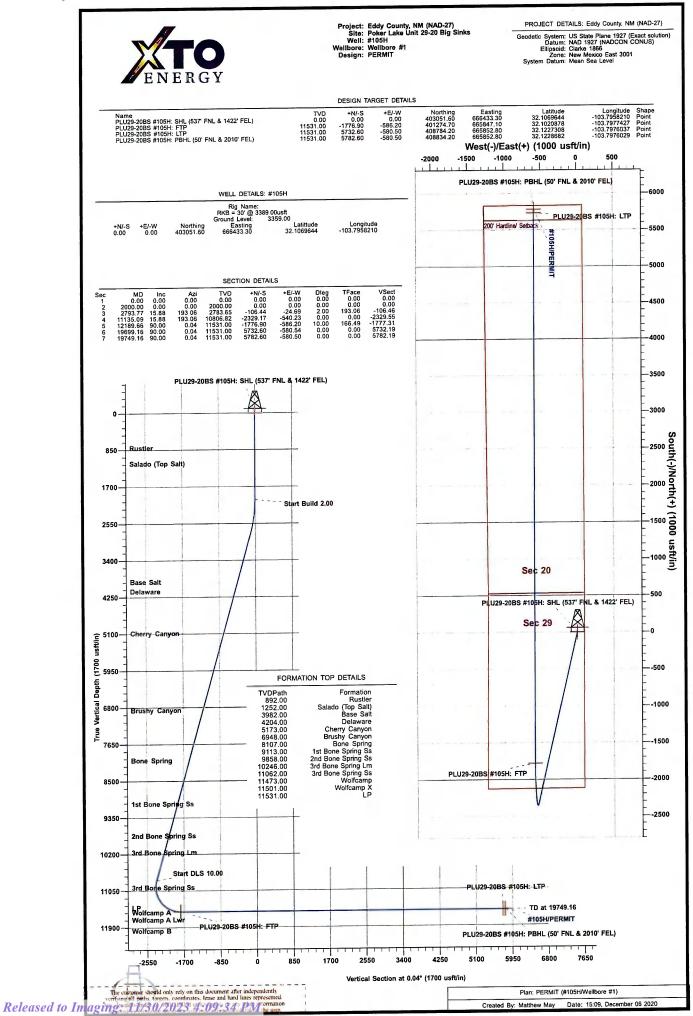
Wellbore #1

Plan: PERMIT

Standard Planning Report

06 December, 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

Phone: (505) 476-3460	Pax: (303) 470	-3402 W	ELL LC	CATIO	N AND ACE	REAGE DEDIC				
1	API Number 30-015-			² Pool Code			³ Pool Nan	ne		
⁴ Property				F	⁵ Property POKER LAKE U				6 V	Vell Number 105H
⁷ OGRID 37307				хто	⁸ Operator O PERMIAN OP	Name ERATING, LLC.				Elevation 3,359'
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the		t/West line	County
В	29	25 S	31 E		537	NORTH	1,422	EA	ST	EDDY
	L		¹¹ Bo	ttom Hol	e Location I	f Different Fron	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn			Feet from the	Eas	t/West line	
В	20	25 S	31 E		50	NORTH	2,010	EA	ST	EDDY
¹² Dedicated Acre	s ¹³ Joint o	r Infill	onsolidation	Code ¹⁵ Or	der No.					

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

16						CERTIFICATION
SHL (NAD83 NME)	LTP (NAD83 NME)				• • • •	ion contained herein is true and complete
Y = 403,109.6	Y = 408,842.3			1	to the best of my knowledge and	belief, and that this organization either
X = 707,618.9	X = 707,038.1				owns a working interest or unlea	sed mineral interest in the land including
LAT. = 32.107089 °N	LAT. = 32.122855 °N			1		
LONG. = 103.796299 °W	LONG. = 103.798083 °W			SEC		n or has a right to drill this well at this
FTP (NAD83 NME)	BHL (NAD83 NME)	SEC. 17		SEC. 16	location pursuant to a contract w	vith an owner of such a mineral or working
Y = 401,332.6	Y = 408,892.3	1 1		10	interest, or to a voluntary poolin	g agreement or a compulsory pooling
X = 707,032.7	x = 707,038.2	0.1		1	order heretofore entered by the d	
LAT. = 32.102212 °N	LAT. = 32.122993 °N	D	H H	0.010	oraer neretojore entered by the a	4 76 4071.
LONG. = 103.798221 °W	LONG. = 103.798082 °W	1		2.818		
	ATES (NAD83 NME)		L.T.P.	_,,,,,		Dista
A-Y= 400,984.0 N ,	X = 706,383.3 E	1			Signature	Date
B-Y= 403,638.5 N ,	X = 706,397.9 E	1.				
C-Y= 406,293.2 N	X = 706,375.6 E		GRID AZ.=	00.03,38		
D-Y= 408,939.3 N	X = 706,353.5 E			T.=7,559.72	Printed Name	
E-Y= 400,992.8 N ,	X = 707,713.2 E		1 1/ 10002. 013			
F-Y= 403,647.2 N	X = 707,718.9 E					
G-Y= 406,297.4 N	X = 707,710.8 E				E-mail Address	
H-Y= 408,945.3 N ,	X = 707,700.8 E			970		
SHL (NAD27 NME)	LTP (NAD27 NME)	SEC. 20		SEC.		
Y = 403,051.6	Y = 408,784.2	T25S R31E	330'	21	18SURVEYOR (CERTIFICATION
X = 666,433.3	X = 665,852.8			1		
LAT. = 32.106964 °N	LAT. = 32.122731 °N		-11			well location shown on this
LONG. = 103.795821 °W	LONG. = 103.797604 °W		1 1 1		plat was plotted from fi	eld notes of actual surveys
FTP (NAD27 NME)	BHL (NAD27 NME)	2,310'	IIIA	1		
Y = 401,274.7	Y = 408,834.2	5.3	537		made by me or under m	y supervision, and that the
X = 665,847.1	X = 665,852.8	<u>_</u>	B F		same is true and correc	t to the best of my belief.
LAT. = 32.102088 °N	LAT. = 32.122868 °N				same is true and correc	to the best of my benef.
LONG. = 103.797743 °W	LONG. = 103.797603 °W	0	·	-1,422'	10.0.0000	-1110W
	NATES (NAD27 NME)	i T	I I/ S.H.L	l.	12-3-2020	I DILLON A
A - Y = 400,926.1 N	X = 665,197.6 E	1	IK		Date of Survey	WHEN WEXICO PO
B-Y= 403,580.5 N	X = 665,212.3 E			107115100	Signatue and Seal of	X X TO
C - Y = 406,235.2 N	X = 665,190.2 E		I /I GRID AZ.	= <u>198 15 22</u> ST.=1,871.17	Professional Surveyor:	
D - Y = 408,881.2 N		1			I TOTOSSIONAL BUTVOJOL	(23786))
E-Y = 400,934.9 N			-	-2,010'		
F - Y = 403,589.2 N			AE			2
G - Y = 406,239.3 N	X = 666,525.3 E	1	F.T.P.			Pol 2
H - Y = 408,887.2 N		1	1	SEC.	· MUV	Rant SURVE
1-1- 400,007.2 N	, , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SEC. 29	1	28		SIONAL SUR
				20	MARK DILLON HARP 23786	-UNAL -
				1	Certificate Number	LM 201908288
					<u></u>	

ENERGY				Р	lanning R	eport				
Database: Company: Project: Site: Well: Wellbore: Design:	XTO E	nergy county, NM (l ∟ake Unit 29 re #1	gle User Db NAD-27) -20 Big Sinks	9	TVD Refe MD Refe North Re	rence:	H	Well #105H RKB = 30' @ 3: RKB = 30' @ 3: Grid Minimum Curva	389.00usft	
Project	Eddy Co	ounty, NM (N	AD-27)							
	NAD 192	Plane 1927 7 (NADCON ico East 300		on)	System D	atum:	Me	ean Sea Level		
Site	Poker L	ake Unit 29-	20 Big Sinks							
Site Position: From: Position Uncertain	Map I ty:	0.00	North Eastin usft Slot F	-		042.40 usft 26.00 usft 13-3/16 "	Latitude: Longitude: Grid Conve	rgence:		32.1069705 -103.8032725 0.28
Well	#105H									
Well Position	+N/-S +E/-W	9.2 2,307.3	0 usft Ea	orthing: sting:		403,051.60 666,433.30	usft Lor	itude: ngitude:		32.106964 -103.795821
Position Uncertain	nty	0.0	0 usft W	ellhead Eleva	ation:	0.00	ustt Gro	ound Level:		3,359.00 usf
Wellbore	MA-III-									
	Wellbo	e#I		ounderen til terret	or the second					PROPERTY OF THE OWNER.
		el Name	Sample	e Date	Declina (°)	ition	Dip A (°			Strength nT)
			Sample	e Date 12/06/20		ition 6.70				the state of the s
Magnetics		el Name IGRF2020	Sample					")		nT)
Magnetics Design	Mod	el Name IGRF2020		12/06/20	(°)	6.70	(*	') 59.78	(1	nT)
Magnetics Design Audit Notes:	Mod	el Name IGRF2020 T	Phas	12/06/20 e: P	(°) LAN	6.70 Tie	(° • On Depth:	') 59.78	(1 0.00	nT)
Magnetics Design Audit Notes: Version: Vertical Section:	Mod	el Name IGRF2020 T		12/06/20 e: P	(°)	6.70 Tie +E	(*	') 59.78 Dire	(1	nT)
Magnetics Design Audit Notes: Version:	Mod	el Name IGRF2020 T	Phas pth From (T	12/06/20 e: P	(°) LAN +N/-S	6.70 Tie +E (u:	(' • On Depth: /-W	') 59.78 Dire	(1 0.00 action	nT)
Magnetics Design Audit Notes: Version: Vertical Section:	Mod	el Name IGRF2020 T	Phas pth From (T (usft)	12/06/20 e: P	(°) LAN +N/-S (usft)	6.70 Tie +E (u:	(' e On Depth: /-W sft)	') 59.78 Dire	(1 0.00 ection (°)	nT)
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inclin	Mod	el Name IGRF2020 T	Phas pth From (T (usft)	12/06/20 e: P	(°) LAN +N/-S (usft)	6.70 Tie +E (u:	(' e On Depth: /-W sft)	") 59.78 Dire (0 Turn Rate	(1 0.00 ection (°)	nT)
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inclin (usft) (Mod PERMI	el Name IGRF2020 T De Azimuth (°) 0.00	Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00	12/06/20 ee: P VD) +N/-S (usft) 0.00	(°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00	6.70 Tie (u: 0. Dogleg Rate (°/100usft) 0.00	(* e On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00	") 59.78 Dire (") 0 Turn Rate ("/100usft) 0.00	(1 0.00 ction (°) .04 TFO (°) 0.00	nT) 47,456
Magnetics Design Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Inclin (usft)	Mod PERMI	el Name IGRF2020 T De Azimuth (°)	Phas epth From (T (usft) 0.00 Vertical Depth (usft)	12/06/20 ee: P VD) +N/-S (usft)	(°) LAN +N/-S (usft) 0.00 +E/-W (usft)	6.70 Tie (u: 0. Dogleg Rate (°/100usft)	e On Depth: /-W sft) 00 Build Rate (°/100usft)) 59.78 Dire () 0 Turn Rate (°/100usft) 0.00 0.00	(۱ 0.00 ction (۴) .04 TFO (۴)	nT) 47,456

12/06/20 3:03:13PM

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11,531.00

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-586.20

-580.54

-580.50

COMPASS 5000.1 Build 74

166.49 PLU29-20BS #105ł

0.00 PLU29-20BS #105ł

0.00 PLU29-20BS #105ł

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12,189.66

19,699.16

19,749.16



Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1.13 Single User Db XTO Energy Eddy County, NM (NAD-27) Poker Lake Unit 29-20 Big Sinks #105H Wellbore #1 PERMIT	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well#105H RKB = 30' @ 3389.00usft RKB = 30' @ 3389.00usft Grid Minimum Curvature
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Planned Survey

	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17.354.55	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	0.00 0.00
	600.00	0.00	0.00	600.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00
	700.00	0.00	0.00	700.00 800.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00
	800.00 900.00	0.00 0.00	0.00 0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00 0.00	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 0.00	0.00	0.00
	1,900.00	0.00	0.00	1,900.00	0.00			0.00	0.00	0.00
	2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00 -1.70	2.00	2.00	0.00
	2,100.00	2.00	193.06	2,099.98	-1.70	-0.39 -1.58	-6.80	2.00	2.00	0.00
	2,200.00	4.00	193.06	2,199.84 2,299.45	-6.80 -15.29	-3.55	-15.29	2.00	2.00	0.00
	2,300.00 2,400.00	6.00 8.00	193.06 193.06	2,299.45 2,398.70	-13.29	-6.30	-27.16	2.00	2.00	0.00
	-					-9.83	-42.40	2.00	2.00	0.00
	2,500.00	10.00	193.06	2,497.47 2,595.62	-42.40 -60.98	-9.83 -14.14	-42.40	2.00	2.00	0.00
	2,600.00	12.00	193.06 193.06	2,595.62	-82.90	-19.23	-82.91	2.00	2.00	0.00
	2,700.00 2,793.77	14.00 15.88	193.06	2,783.65	-106.44	-24.69	-106.46	2.00	2.00	0.00
	2,795.77	15.88	193.06	2,789.64	-108.10	-25.07	-108.12	0.00	0.00	0.00
	2,900.00	15.88	193.06	2,885.83	-134.75	-31.25	-134.77	0.00	0.00	0.00
	3,000.00	15.88	193.06	2,982.02	-161.40	-37.43	-161.42	0.00	0.00	0.00
	3,100.00	15.88	193.06	3,078.20	-188.04	-43.62	-188.07	0.00	0.00	0.00
	3,200.00	15.88	193.06	3,174.39	-214.69	-49.80	-214.72	0.00	0.00	0.00
	3,300.00	15.88	193.06	3,270.57	-241.34	-55.98	-241.38	0.00	0.00	0.00
1	3,400.00	15.88	193.06	3,366.76	-267.98	-62.16	-268.03	0.00	0.00	0.00
1	3,500.00	15.88	193.06	3,462.95	-294.63	-68.34	-294.68	0.00	0.00	0.00
	3,600.00	15.88	193.06	3,559.13	-321.28	-74.52	-321.33	0.00	0.00	0.00 0.00
	3,700.00	15.88	193.06	3,655.32	-347.93	-80.70	-347.98	0.00 0.00	0.00 0.00	0.00
	3,800.00	15.88	193.06	3,751.50	-374.57	-86.88	-374.63			
	3,900.00	15.88	193.06	3,847.69	-401.22	-93.06	-401.29	0.00	0.00	0.00 0.00
	4,000.00	15.88	193.06	3,943.88	-427.87	-99.24	-427.94	0.00	0.00	0.00
	4,100.00	15.88	193.06	4,040.06	-454.51	-105.42	-454.59 -481.24	0.00 0.00	0.00 0.00	0.00
	4,200.00	15.88	193.06	4,136.25	-481.16	-111.60 -117.78	-461.24	0.00	0.00	0.00
	4,300.00	15.88	193.06	4,232.43	-507.81				0.00	0.00
	4,400.00	15.88	193.06	4,328.62	-534.46 -561.10	-123.96 -130.14	-534.54 -561.19	0.00 0.00	0.00	0.00
	4,500.00	15.88 15.88	193.06 193.06	4,424.81 4,520.99	-561.10	-136.32	-587.85	0.00	0.00	0.00
	4,600.00 4,700.00	15.88	193.06	4,617.18	-614.40	-142.51	-614.50	0.00	0.00	0.00
	4,700.00	15.88	193.06	4,713.36	-641.05	-148.69	-641.15	0.00	0.00	0.00
-	4,900.00	15.88	193.06	4,809.55	-667.69	-154.87	-667.80	0.00	0.00	0.00
	5.000.00	15.88	193.06	4,905.73	-694.34	-161.05	-694.45	0.00	0.00	0.00
	5,100.00	15.88	193.06	5,001.92	-720.99	-167.23	-721.10	0.00	0.00	0.00
1	5,200.00	15.88	193.06	5,098.11	-747.63	-173.41	-747.75	0.00	0.00	0.00



Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1.13 Single User Db XTO Energy Eddy County, NM (NAD-27) Poker Lake Unit 29-20 Big Sinks #105H Wellbore #1 PERMIT	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well #105H RKB = 30' @ 3389.00usft RKB = 30' @ 3389.00usft Grid Minimum Curvature
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	15.88	193.06	5,194.29	-774.28	-179.59	-774.41	0.00	0.00	0.00
		193.06	5,290.48	-800.93	-185.77	-801.06	0.00	0.00	0.00
5,400.00	15.88		5,386.66	-827.58	-191.95	-827.71	0.00	0.00	0.00
5,500.00	15.88	193.06		-854.22	-198.13	-854.36	0.00	0.00	0.00
5,600.00	15.88	193.06	5,482.85		-204.31	-881.01	0.00	0.00	0.00
5,700.00	15.88	193.06	5,579.04	-880.87			0.00	0.00	0.00
5,800.00	15.88	193.06	5,675.22	-907.52	-210.49	-907.66			
F 000 00	15.88	193.06	5,771.41	-934.16	-216.67	-934.32	0.00	0.00	0.00
5,900.00		193.06	5,867.59	-960.81	-222.85	-960.97	0.00	0.00	0.00
6,000.00	15.88		5,963,78	-987.46	-229.03	-987.62	0.00	0.00	0.00
6,100.00	15.88	193.06	-1	-1.014.11	-235.21	-1.014.27	0.00	0.00	0.00
6,200.00	15.88	193.06	6,059.97	-1,040.75	-241.40	-1,040.92	0.00	0.00	0.00
6,300.00	15.88	193.06	6,156.15	-1,040.75					0.00
6,400.00	15.88	193.06	6,252.34	-1,067.40	-247.58	-1,067.57	0.00	0.00	0.00
6,500.00	15.88	193.06	6,348.52	-1,094.05	-253.76	-1,094.22	0.00	0.00	0.00
6,600.00	15.88	193.06	6,444.71	-1,120.69	-259.94	-1,120.88	0.00	0.00	0.00
	15.88	193.06	6,540.89	-1,147.34	-266.12	-1,147.53	0.00	0.00	0.00
6,700.00		193.06	6,637.08	-1,173.99	-272.30	-1,174.18	0.00	0.00	0.00
6,800.00	15.88	193.00						0.00	0.00
6,900.00	15.88	193.06	6,733.27	-1,200.64	-278.48	-1,200.83	0.00	0.00	0.00
7,000.00	15.88	193.06	6,829.45	-1,227.28	-284.66	-1,227.48	0.00	0.00	
7,100.00	15.88	193.06	6,925.64	-1,253.93	-290.84	-1,254.13	0.00	0.00	0.00
7,200.00	15.88	193.06	7,021.82	-1,280.58	-297.02	-1,280.79	0.00	0.00	0.00
7,200.00	15.88	193.06	7,118.01	-1,307.23	-303.20	-1,307.44	0.00	0.00	0.00
•				4 000 07	-309.38	-1,334.09	0.00	0.00	0.00
7,400.00	15.88	193.06	7,214.20	-1,333.87		-1,360.74	0.00	0.00	0.00
7,500.00	15.88	193.06	7,310.38	-1,360.52	-315.56		0.00	0.00	0.00
7,600.00	15.88	193.06	7,406.57	-1,387.17	-321.74	-1,387.39		0.00	0.00
7,700.00	15.88	193.06	7,502.75	-1,413.81	-327.92	-1,414.04	0.00		0.00
7,800.00		193.06	7,598.94	-1,440.46	-334.10	-1,440.69	0.00	0.00	
		193.06	7,695.13	-1,467.11	-340.29	-1,467.35	0.00	0.00	0.00
7,900.00			7,791.31	-1,493.76	-346.47	-1,494.00	0.00	0.00	0.00
8,000.00		193.06		-1,520.40	-352.65	-1,520.65	0.00	0.00	0.00
8,100.00		193.06	7,887.50		-358.83	-1,547.30	0.00	0.00	0.00
8,200.00		193.06	7,983.68	-1,547.05	-365.03	-1,573.95	0.00	0.00	0.00
8,300.00	15.88	193.06	8,079.87	-1,573.70	-305.01	-1,575.55			
8,400.00	15.88	193.06	8,176.05	-1,600.34	-371.19	-1,600.60	0.00	0.00	0.00
8,500.00		193.06	8,272.24	-1.626.99	-377.37	-1,627.25	0.00	0.00	0.00
8,600.00		193.06	8,368.43	-1,653.64	-383.55	-1,653.91	0.00	0.00	0.00
		193.06	8,464.61	-1,680.29	-389.73	-1,680.56	0.00	0.00	0.00
8,700.00		193.06	8,560.80	-1,706.93	-395.91	-1,707.21	0.00	0.00	0.00
8,800.00	15.00	195.00					0.00	0.00	0.00
8,900.00	15.88		8,656.98	-1,733.58	-402.09	-1,733.86	0.00	0.00	0.00
9,000.00		193.06	8,753.17	-1,760.23	-408.27	-1,760.51	0.00		0.00
9,100.00		193.06	8,849.36	-1,786.87	-414.45	-1,787.16	0.00	0.00	0.00
9,200.00		193.06	8,945.54	-1,813.52	-420.63	-1,813.82	0.00	0.00	
9,300.00			9,041.73	-1,840.17	-426.81	-1,840.47	0.00	0.00	0.00
				1 966 92	-432.99	-1.867.12	0.00	0.00	0.00
9,400.00			9,137.91	-1,866.82	-432.99		0.00	0.00	0.00
9,500.00	15.88			-1,893.46	-439.10	-1,920.42	0.00	0.00	0.00
9,600.00	15.88		9,330.29	-1,920.11			0.00		0.00
9,700.00	15.88		9,426.47	-1,946.76	-451.54	-1,947.07	0.00		0.00
9,800.00	15.88	193.06	9,522.66	-1,973.41	-457.72	-1,973.72	0.00	0.00	
9,900.00		193.06	9,618.84	-2,000.05	-463.90	-2,000.38	0.00		0.00
			9,715.03	-2,026.70	-470.08	-2,027.03	0.00	0.00	0.00
10,000.00			9,811.22	-2,053.35	-476.26	-2.053.68	0.00		0.00
10,100.00				-2,033.33	-482.44	-2,080.33	0.00		0.00
10,200.00			9,907.40		-488.62	-2,106.98	0.00		0.00
10,300.00) 15.88	193.06	10,003.59	-2,106.64					
10,400.00) 15.88	193.06	10,099.77	-2,133.29	-494.80	-2,133.63	0.00		0.00
10,400.00			10,195.96	-2,159.94	-500.98	-2,160.29	0.00		0.00
10,000.00) 15.88		10,292.14	-2,186.58	-507.16	-2,186.94	0.00	0.00	0.00



Database: EDM 5000.1.13 Sing Company: XTO Energy Project: Eddy County, NM (N/ Site: Poker Lake Unit 29-2 Well: #105H Wellbore: Wellbore #1 Design: PERMIT	AD-27) TVD Reference: MD Reference:	RKB = 30' @ 3389.00usft RKB = 30' @ 3389.00usft Grid
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Planned Survey

D	asured epth usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	,700.00 ,800.00	15.88 15.88	193.06 193.06	10,388.33 10,484.52	-2,213.23 -2,239.88	-513.34 -519.52	-2,213.59 -2,240.24	0.00 0.00	0.00 0.00	0.00 0.00
10 11	,900.00 ,000.00 ,100.00	15.88 15.88 15.88	193.06 193.06 193.06	10,580.70 10,676.89 10,773.07	-2,266.52 -2,293.17 -2,319.82	-525.70 -531.88 -538.07	-2,266.89 -2,293.54 -2,320.19	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11	,135.09 ,150.00	15.88 14.43	193.06 194.46	10,806.82 10,821.22	-2,329.17 -2,332.96	-540.23 -541.16	-2,329.55 -2,333.33	0.00 10.00	0.00 -9.70	0.00 9.38
11	,200.00 ,250.00 ,300.00	9.68 5.40 3.81	202.10 222.72 285.81	10,870.10 10,919.67 10,969.53	-2,342.89 -2,348.52 -2,349.79	-544.30 -547.48 -550.67	-2,343.27 -2,348.90 -2,350.18	10.00 10.00 10.00	-9.50 -8.56 -3.18	15.28 41.24 126.19 86.14
11	,350.00 ,400.00	7.06 11.62	328.88 341.89	11,019.32 11,068.65 11,117.15	-2,346.71 -2,339.29 -2,327.59	-553.86 -557.01 -560.11	-2,347.09 -2,339.68 -2,327.98	10.00 10.00 10.00	6.50 9.13 9.63	26.02 11.22
11 11 11	,450.00 ,500.00 ,550.00 ,600.00	16.44 21.34 26.27 31.23	347.50 350.61 352.59 353.98 355.02	11,117.15 11,164.44 11,210.17 11,254.00 11,295.58	-2,327.39 -2,311.70 -2,291.74 -2,267.86 -2,240.24	-563.13 -566.04 -568.83 -571.47	-2,312.09 -2,292.13 -2,268.25 -2,240.64	10.00 10.00 10.00 10.00	9.80 9.87 9.91 9.93	6.20 3.96 2.78 2.09
11 11	,650.00 ,700.00 ,750.00 ,800.00	36.19 41.17 46.15 51.13	355.02 355.84 356.52 357.08	11,334.60 11,370.76 11,403.79	-2,209.10 -2,174.67 -2,137.21	-573.95 -576.24 -578.32	-2,209.50 -2,175.07 -2,137.62	10.00 10.00 10.00	9.95 9.96 9.96	1.64 1.34 1.14
11 11	,850.00 ,900.00	56.11 61.10	357.58 358.02	11,433.44 11,459.47	-2,097.02 -2,054.38	-580.19 -581.83	-2,097.42 -2,054.79	10.00 10.00 10.00	9.97 9.97 9.97	0.99 0.88 0.80
12 12 12	,950.00 2,000.00 2,050.00 2,100.00	66.09 71.07 76.06 81.05 86.04	358.42 358.78 359.13 359.47 359.79	11,481.71 11,499.96 11,514.10 11,524.01 11,529.63	-2,009.63 -1,963.12 -1,915.18 -1,866.19 -1,816.53	-583.22 -584.35 -585.22 -585.82 -586.14	-2,010.04 -1,963.52 -1,915.59 -1,866.60 -1,816.94	10.00 10.00 10.00 10.00 10.00	9.98 9.98 9.98 9.98 9.98	0.74 0.70 0.67 0.65
12 12 12	2,150.00 2,189.66 2,200.00 2,300.00	90.00 90.00 90.00	0.04 0.04 0.04 0.04	11,531.00 11,531.00 11,531.00 11,531.00 11,531.00	-1,776.90 -1,766.56 -1,666.56 -1,566.56	-586.20 -586.19 -586.12 -586.04	-1,777.31 -1,766.97 -1,666.97 -1,566.97	10.00 0.00 0.00 0.00	9.98 0.00 0.00 0.00	0.64 0.00 0.00 0.00
12	2,400.00 2,500.00 2,600.00	90.00 90.00 90.00	0.04 0.04 0.04	11,531.00	-1,466.56 -1,366.56	-585.97	-1,466.97 -1,366.97	0.00 0.00	0.00 0.00	0.00 0.00
12 12 12	2,700.00 2,800.00 2,800.00 2,900.00 3,000.00	90.00 90.00 90.00 90.00	0.04 0.04 0.04 0.04	11,531.00 11,531.00 11,531.00 11,531.00 11,531.00	-1,266.56 -1,166.56 -1,066.56 -966.56	-585.82 -585.74 -585.66 -585.59	-1,266.97 -1,166.97 -1,066.97 -966.97	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
1: 1: 1:	3,100.00 3,200.00 3,300.00 3,400.00 3,500.00	90.00 90.00 90.00 90.00 90.00	0.04 0.04 0.04 0.04 0.04	11,531.00 11,531.00 11,531.00 11,531.00 11,531.00 11,531.00	-866.56 -766.56 -666.56 -566.56 -466.56	-585.51 -585.44 -585.36 -585.29 -585.21	-866.97 -766.97 -666.97 -566.97 -466.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1: 1: 1:	3,600.00 3,700.00 3,800.00 3,900.00 4,000.00	90.00 90.00 90.00 90.00 90.00	0.04 0.04 0.04 0.04 0.04	11,531.00 11,531.00 11,531.00 11,531.00 11,531.00 11,531.00	-366.56 -266.56 -166.56 -66.56 33.44	-585.14 -585.06 -584.99 -584.91 -584.83	-366.97 -266.97 -166.97 -66.97 33.03	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1, 1, 1,	4,100.00 4,200.00 4,300.00 4,400.00 4,500.00	90.00 90.00 90.00 90.00 90.00	0.04 0.04 0.04 0.04 0.04	11,531.00 11,531.00 11,531.00 11,531.00 11,531.00 11,531.00	133.44 233.44 333.44 433.44 533.44	-584.76 -584.68 -584.61 -584.53 -584.46	133.03 233.03 333.03 433.03 533.03	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
	4,600.00 4,700.00	90.00 90.00	0.04 0.04	11,531.00 11,531.00	633.44 733.44	-584.38 -584.31	633.03 733.03	0.00 0.00	0.00 0.00	0.00 0.00



Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1.13 Single User Db XTO Energy Eddy County, NM (NAD-27) Poker Lake Unit 29-20 Big Sinks #105H Wellbore #1 PERMIT	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well#105H RKB = 30' @ 3389.00usft RKB = 30' @ 3389.00usft Grid Minimum Curvature
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.00	90.00	0.04	11,531.00	833.44	-584.23	833.03	0.00	0.00	0.00
14,900.00	90.00	0.04	11,531.00	933.44	-584.16	933.03	0.00	0.00	0.00
15,000.00	90.00	0.04	11,531.00	1,033.44	-584.08	1,033.03	0.00	0.00	0.00
	90.00	0.04	11,531.00	1,133.44	-584.01	1,133.03	0.00	0.00	0.00
15,100.00	90.00	0.04	11,531.00	1,233.44	-583.93	1,233.03	0.00	0.00	0.00
15,200.00	90.00	0.04	11,531.00	1,333.44	-583.85	1,333.03	0.00	0.00	0.00
15,300.00 15,400.00	90.00	0.04	11,531.00	1,433.44	-583.78	1.433.03	0.00	0.00	0.00
15,500.00	90.00	0.04	11,531.00	1,533.44	-583.70	1,533.03	0.00	0.00	0.00
15.600.00	90.00	0.04	11,531.00	1,633.44	-583.63	1,633.03	0.00	0.00	0.00
15,800.00	90.00	0.04	11,531.00	1,733.44	-583.55	1,733.03	0.00	0.00	0.00
15,800.00	90.00	0.04	11,531.00	1,833.44	-583.48	1,833.03	0.00	0.00	0.00
15,900.00	90.00	0.04	11,531.00	1,933.44	-583.40	1,933.03	0.00	0.00	0.00
16,000.00	90.00	0.04	11,531.00	2,033.44	-583.33	2,033.03	0.00	0.00	0.00
16,100.00	90.00	0.04	11,531.00	2,133.44	-583.25	2,133.03	0.00	0.00	0.00
16,200.00	90.00	0.04	11,531.00	2,233.44	-583.18	2,233.03	0.00	0.00	0.00
16,300.00	90.00	0.04	11,531.00	2,333.44	-583.10	2,333.03	0.00	0.00	0.00
16,400.00	90.00	0.04	11,531.00	2,433.44	-583.03	2,433.03	0.00	0.00	0.00
16,500.00	90.00	0.04	11,531.00	2,533.44	-582.95	2,533.03	0.00	0.00	0.00
16.600.00	90.00	0.04	11,531.00	2,633.44	-582.87	2,633.03	0.00	0.00	0.00
16,700.00	90.00	0.04	11,531.00	2,733.44	-582.80	2,733.03	0.00	0.00	0.00
16,800.00	90.00	0.04	11,531.00	2,833.44	-582.72	2,833.03	0.00	0.00	0.00
16,900.00	90.00	0.04	11,531.00	2,933.44	-582.65	2,933.03	0.00	0.00	0.00
17,000.00	90.00	0.04	11,531.00	3,033.44	-582.57	3,033.03	0.00	0.00	0.00
17,100.00	90.00	0.04	11,531.00	3,133.44	-582.50	3,133.03	0.00	0.00	0.00
17,200.00	90.00	0.04	11,531.00	3,233.44	-582.42	3,233.03	0.00	0.00	0.00
17,300.00	90.00	0.04	11,531.00	3,333.44	-582.35	3,333.03	0.00	0.00	0.00
17,400.00	90.00	0.04	11,531.00	3,433.44	-582.27	3,433.03	0.00	0.00	0.00
17,500.00	90.00	0.04	11,531.00	3,533.44	-582.20	3,533.03	0.00	0.00	0.00
17,600.00	90.00	0.04	11,531.00	3,633.44	-582.12	3,633.03	0.00	0.00	0.00
17,700.00	90.00	0.04	11,531.00	3,733.44	-582.05	3,733.03	0.00	0.00	0.00
17,800.00	90.00	0.04	11,531.00	3,833.44	-581.97	3,833.03	0.00	0.00	0.00 0.00
17,900.00	90.00	0.04	11,531.00	3,933.44	-581.89	3,933.03	0.00	0.00 0.00	0.00
18,000.00	90.00	0.04	11,531.00	4,033.44	-581.82	4,033.03	0.00		
18,100.00	90.00	0.04	11,531.00	4,133.44	-581.74	4,133.03	0.00	0.00	0.0
18,200.00	90.00	0.04	11,531.00	4,233.44	-581.67	4,233.03	0.00	0.00	0.0
18,300.00	90.00	0.04	11,531.00	4,333.44	-581.59	4,333.03	0.00	0.00	0.0
18,400.00	90.00	0.04	11,531.00	4,433.44	-581.52	4,433.03	0.00	0.00 0.00	0.0 0.0
18,500.00	90.00	0.04	11,531.00	4,533.44	-581.44	4,533.03	0.00		
18,600.00	90.00	0.04	11,531.00	4,633.44	-581.37	4,633.03	0.00	0.00	0.0
18,700.00	90.00	0.04	11,531.00	4,733.44	-581.29	4,733.03	0.00	0.00	0.0
18,800.00	90.00	0.04	11,531.00	4,833.44	-581.22	4,833.03	0.00	0.00	0.0
18,900.00	90.00	0.04	11,531.00	4,933.44	-581.14	4,933.03	0.00	0.00 0.00	0.00
19,000.00	90.00	0.04	11,531.00	5,033.44	-581.06	5,033.03	0.00		
19,100.00	90.00	0.04	11,531.00	5,133.44	-580.99	5,133.03	0.00	0.00	0.0
19,200.00	90.00	0.04	11,531.00	5,233.44	-580.91	5,233.03	0.00	0.00	0.00
19,300.00	90.00	0.04	11,531.00	5,333.44	-580.84	5,333.03	0.00	0.00 0.00	0.0
19,400.00	90.00	0.04	11,531.00	5,433.44	-580.76	5,433.03	0.00	0.00	0.0
19,500.00	90.00	0.04	11,531.00	5,533.44	-580.69	5,533.03	0.00		
19,600.00	90.00	0.04	11,531.00	5,633.44	-580.61	5,633.03	0.00	0.00	0.0
19,699.16	90.00	0.04	11,531.00	5,732.60	-580.54	5,732.19	0.00	0.00	0.0
19,749.16	90.00	0.04	11,531.00	5,782.60	-580.50	5,782.19	0.00	0.00	0.0



Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well #105H RKB = 30' @ 3389.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 30' @ 3389.00usft
Site:	Poker Lake Unit 29-20 Big Sinks	North Reference:	Grid
Well:	#105H	Survey Calculation Method:	Minimum Curvature
Wellbore: Design:	Wellbore #1 PERMIT		

Design Targets

Contraction of the second s									
Target Name - hit/miss target [- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU29-20BS #105H: - plan hits target cer - Point	0.00 nter	0.00	0.00	0.00	0.00	403,051.60	666,433.30	32.1069644	-103.7958210
PLU29-20BS #105H: - plan misses target - Point	0.00 center by		11,531.00 19699.16u	5,732.60 sft MD (1153	-580.50 1.00 TVD, 5	408,784.20 732.60 N, -580.5	665,852.80 4 E)	32.1227308	-103.7976037
PLU29-20BS #105H: - plan hits target cer - Point	0.00 nter	0.00	11,531.00	-1,776.90	-586.20	401,274.70	665,847.10	32.1020878	-103.7977427
PLU29-20BS #105H: - plan hits target cer - Point	0.00 nter	0.00	11,531.00	5,782.60	-580.50	408,834.20	665,852.80	32.1228682	-103.7976029

Formations

	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
and hereits	892.00	892.00	Rustler			
	1,252.00	1,252.00	Salado (Top Salt)			
	4,039.64	3,982.00	Base Salt			
	4,270.44	4,204.00	Delaware			
	5,277.86	5,173.00	Cherry Canyon			
	7,123.25	6,948.00	Brushy Canyon			
	8,328.21	8,107.00	Bone Spring			
	9,374.10	9,113.00	1st Bone Spring Ss			
	10,148.64	9,858.00	2nd Bone Spring Ss			
	10,552.03	10,246.00	3rd Bone Spring Lm			
	11,393.22	11,062.00	3rd Bone Spring Ss			
	11,929.36	11,473.00	Wolfcamp			
	12,003.24	11,501.00	Wolfcamp X			
	12,189.66	11,531.00	LP			

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMLC-062140A
WELL NAME & NO.:	Poker Lake Unit 29-20 BS 105H
SURFACE HOLE FOOTAGE:	0537' FNL & 1422' FEL
BOTTOM HOLE FOOTAGE	0050' FNL & 2010' FEL Sec. 20, T.25 S., R.31 E.
LOCATION:	Section 29, T.25 S., R.31 E., NMPM
	Eddy County, New Mexico

COA

H2S	C Yes	• No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	C Low	Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	Both ■
Other		Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	
Special Requirements		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 **1220** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours 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, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
- In <u>Medium Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

C. PRESSURE CONTROL

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

BOP Break Testing Variance

- 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.

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.

Page 4 of 8

GENERAL REQUIREMENTS

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

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

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 5. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 6. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

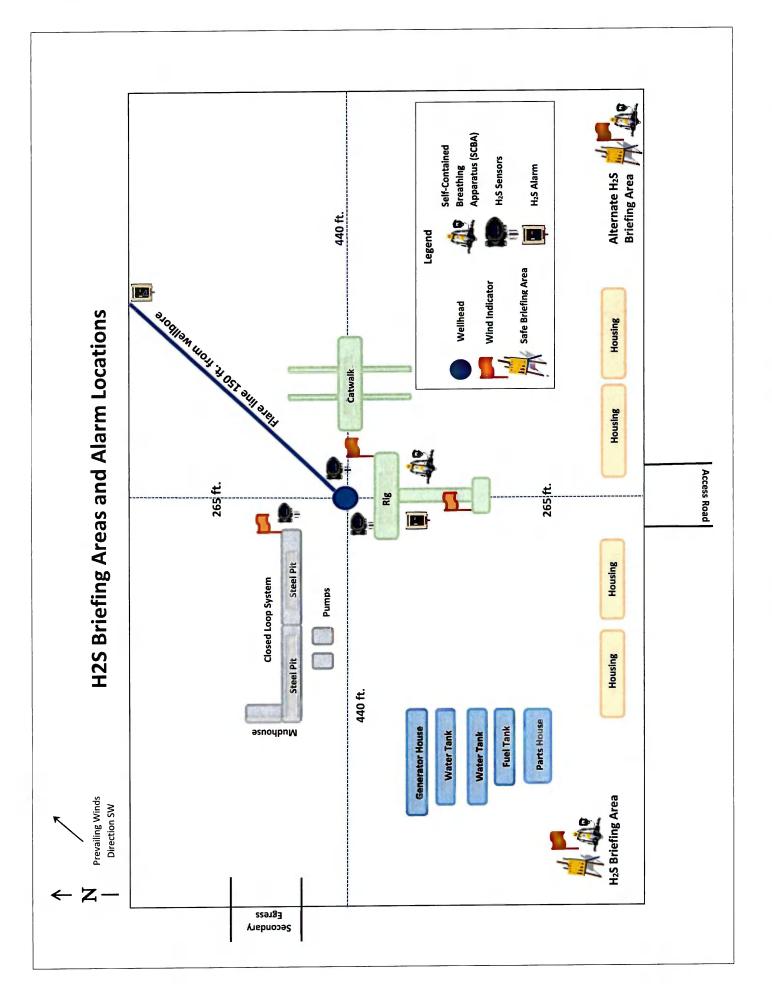
D. WASTE MATERIAL AND FLUIDS

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

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

JAM 09232021

Page 8 of 8





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

Contacting Authorities

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

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CARLSBAD OFFICE - EDDY & LEA COUNTIES

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29-20 BS

Well Number: 105H

Safe containmant 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

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

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

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

District III

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

District IV

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

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

Page 49 of 49 CONDITIONS

Action 289350

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	289350
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	11/30/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	11/30/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	11/30/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	11/30/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	11/30/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	11/30/2023