Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-55080 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENW / 531 FNL / 1545 FWL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.107095 / LONG: -103.803848 (TVD: 0 feet, MD: 0 feet) PPP: SENE / 1323 FNL / 2310 FWL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.104922 / LONG: -103.800866 (TVD: 9957 feet, MD: 10700 feet) PPP: SWSE / 0 FSL / 1903 FEL / TWSP: 25S / RANGE: 31E / SECTION: 20 / LAT: 32.108563 / LONG: -103.797846 (TVD: 10161 feet, MD: 13800 feet) PPP: SWNE / 2115 FNL / 1906 FEL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.102749 / LONG: -103.797883 (TVD: 10161 feet, MD: 11300 feet) PPP: SWNE / 2647 FNL / 1907 FEL / TWSP: 25S / RANGE: 31E / SECTION: 20 / LAT: 32.115853 / LONG: -103.797799 (TVD: 10161 feet, MD: 16400 feet) BHL: NWSE / 2664 FSL / 1891 FEL / TWSP: 25S / RANGE: 31E / SECTION: 17 / LAT: 32.130454 / LONG: -103.797707 (TVD: 10161 feet, MD: 21334 feet)

BLM Point of Contact

Name: MARIAH HUGHES Title: Land Law Examiner Phone: (575) 234-5972 Email: mhughes@blm.gov <u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 55080		96654 Pool Code	WC; Big Sinks; Bone Spring		
⁴ Property Code		⁵ Property Name			
335921	POKER LAKE UNIT 29-20 BS 122H				
⁷ OGRID No.		⁸ Operator Name			
005380	XTO ENERGY, INC. 3,363'				
	•	~			

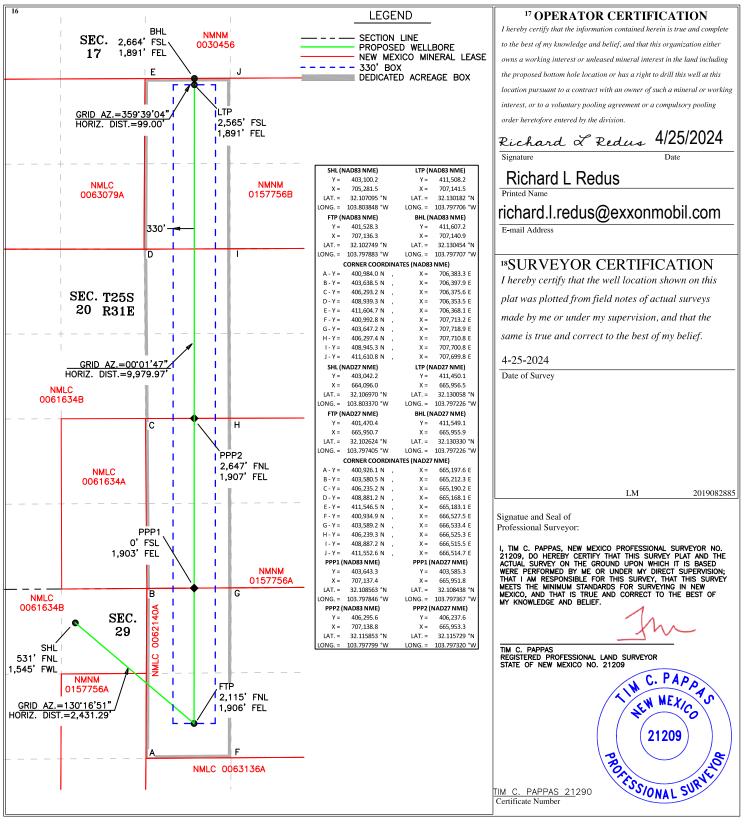
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	29	25 S	31 E		531	NORTH	1,545	WEST	EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

J 17 25 S 31 E 2,664 SOUTH 1,891 EAST EDDY

12 Dedicated Acres 320 14 Consolidation Code 15 Order 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.



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator:XTO Perm	ian Op	erating LLC	OGRID:373075	Date: _5	5/24/2024_	
II. Type: ⊠ Original □ Amer	ndment	t due to □ 19.15.27	7.9.D(6)(a) NMAC □ 19.15.27	.9.D(6)(b) NM.	AC □ Other.	
If Other, please describe:						
III. Well(s): Provide the follow be recompleted from a single w	_			t of wells propo	osed to be drille	d or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Poker Lake Unit 28-21 BS 155H		B-28-25S-31E	549' FNL & 1915' FEL	1848	9240	5544
Poker Lake Unit 29-20 BS 105H		B-29-25S-31E	537' FNL & 1422' FEL	1848	9240	5544
Poker Lake Unit 29-20 BS 121H		C-29-25S-31E	531' FNL & 1515' FWL	1848	9240	5544
Poker Lake Unit 29-20 BS 122H		C-29-25S-31E	531' FNL & 1545 FWL	1848	9240	5544
Poker Lake Unit 29-20 BS 126H		B-29-25S-31E	537' FNL & 1452' FEL	1848	9240	5544
IV. Central Delivery Point Na	me: _		_Cowboy CDP	[See 19.	15.27.9(D)(1) N	NMAC]

[500 17.115.27.5(D)(17.111110]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 28-21 BS 155H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 29-20 BS 105H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 29-20 BS 121H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 29-20 BS 122H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 29-20 BS 126H		TBD	TBD	TBD	TBD	TBD

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

VII. Operational Practices:

☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices:

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

XIII. Line	Pressure. Operator	does □ does no	t anticipate that its	existing well(s)	connected to the	e same segment,	or portion,	of the
natural gas	gathering system(s) de	escribed above w	ill continue to mee	t anticipated incre	eases in line pre	essure caused by	the new we	ell(s).

П	Attach O	nerator's	nlan to	manage	production	in resi	nonse to	the	increased	line	nressure
-	1 Ittacii O	perator s	pian w	manage	production	111 1 03	ponse te	, uic	mercasea	IIIIC	pressure

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

Section 3 - Certifications <u>Effective May 25, 2021</u>

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

□ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☑ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. ⊠ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Terra Sebastian
Printed Name: Terra Sebastian
Title: Regulatory Coordinator
E-mail Address: terra.b.sebastian@exxonmobil.com
Date: 5/24/2024
Phone: 432-999-3107
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Well Name: POKER LAKE UNIT 29-20 BS



APD ID: 10400097437

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

Drilling Plan Data Report

Submission Date: 03/11/2024

Operator Name: XTO ENERGY INCORPORATED

Well Number: 122H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13482223	QUATERNARY	3363	0	0	ALLUVIUM	USEABLE WATER	N
13482220	RUSTLER	2603	760	760	ANHYDRITE, SANDSTONE	USEABLE WATER	N
13482221	SALADO	2229	1134	1134	POTASH, SALT	POTASH	N
13482218	BASE OF SALT	-633	3996	3996	POTASH, SALT	POTASH	N
13482224	DELAWARE	-836	4199	4199	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482227	BRUSHY CANYON	-3470	6833	6833	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482219	BONE SPRING	-4765	8128	8128	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482217	BONE SPRING 1ST	-5586	8949	8949	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482222	BONE SPRING 2ND	-6188	9551	9551	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 10161

Equipment: Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril and a 5M Double 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). Wellhead: Permanent Wellhead Multibowl System A. Starting Head: 20" 10M top flange x 9-5/8" bottom B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange

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. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad.

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 122H

Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. 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 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the surface casing, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the intermediate casing, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU 29 20 BS 5MCM 20240307080828.pdf

BOP Diagram Attachment:

PLU_29_20_BS_5MBOP_20240307080837.pdf PLU_29_20_BS_5M10M_BOP_20240503074826.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.2 5	9.625	NEW	API	N	0	860	0	860	3363	2503	860	J-55	_	OTHER - BTC	7.32	1.45	DRY	18.3 1	DRY	18.3 1
2	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	9930	0	9243	3363	-5880	9930	L-80		OTHER - Flush Joint	2.09	2.08	DRY	2.31	DRY	2.31
3	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	21334	0	10161	3363	-6798	21334	P- 110	-	OTHER - Semi Flush	2	1.26	DRY	2.17	DRY	2.17

Casing Attachments

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 122H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_29_20_BS_122H_csg_20240503105032.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_29_20_BS_122H_csg_20240503105210.pdf

Casing Design Assumptions and Worksheet(s):

PLU_29_20_BS_122H_csg_20240503105256.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_29_20_BS_122H_csg_20240503105427.pdf

Casing Design Assumptions and Worksheet(s):

PLU_29_20_BS_122H_csg_20240503105524.pdf

Section 4 - Cement

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 122H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	860	180	1.87	10.5	336.6	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	860	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6833	650	1.35	14.8	877.5	100	Class C	NA
INTERMEDIATE	Tail		6833	9930	770	1.33	14.8	1024. 1	100	Class C	NA
PRODUCTION	Lead		9630	1013 0	20	2.69	11.5	53.8	20	NeoCem	NA
PRODUCTION	Tail		1013 0	2133 4	800	1.51	13.2	1208	20	VersaCem	NA

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. Drill out from under surface casing with saturated salt solution. A saturated salt mud will be used while drilling through the Salado and Base of Salt Formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	860	OTHER : FW/Native	8.4	8.9							

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 122H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
9930	2133 4	OIL-BASED MUD	10.5	11							
860	4199	SALT SATURATED	9.5	10							
4199	9930	OTHER : BDE/OBM or FW/Brine	8.6	9.1							

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:

GAMMA RAY LOG, CEMENT BOND LOG, DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGICAL LITHOLOGY LOG.

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5548 Anticipated Surface Pressure: 3312

Anticipated Bottom Hole Temperature(F): 185

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_Plan_20240307084506.pdf PLU_29_20_BS_H2S_Dia_20240307084741.pdf

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 122H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

POKER_LAKE_UNIT_29_20_BS_122H_DD_20240307084910.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PLU_29_20_BS_122H_cmt_20240503110626.pdf

Other Variance attachment:

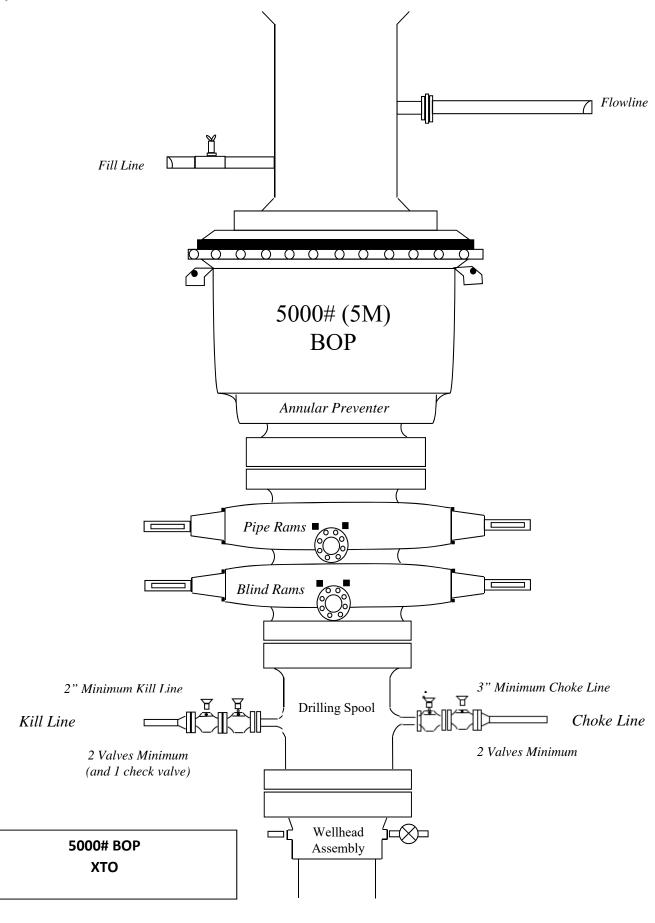
PLU_29_20_BS_Spud_20240307085418.pdf

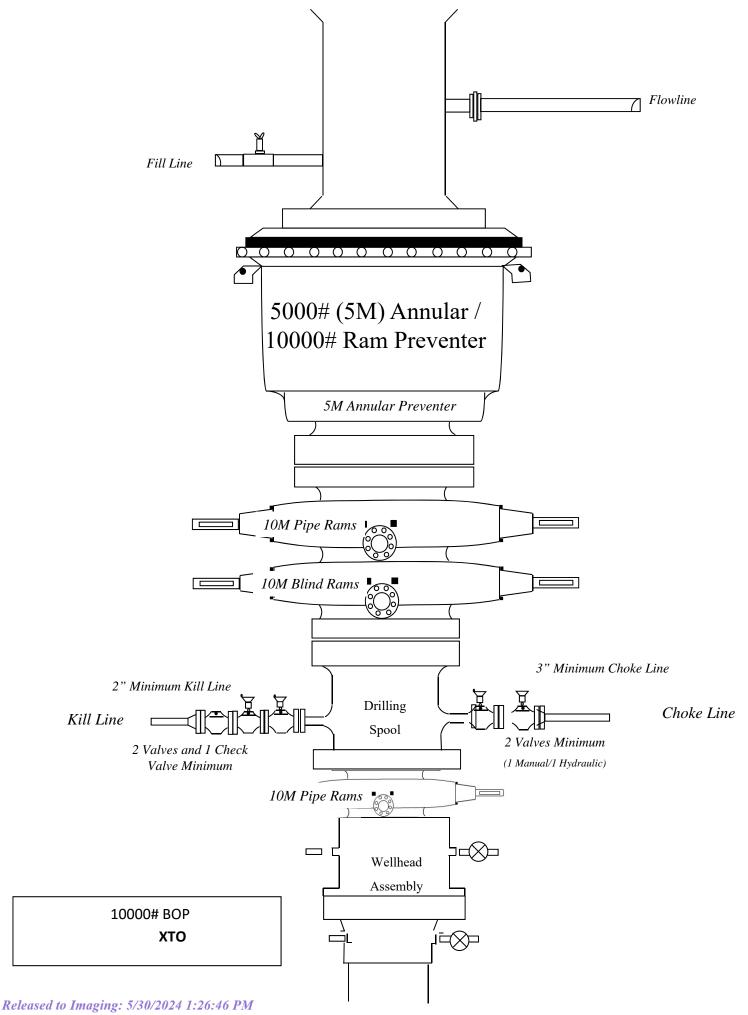
PLU_29_20_BS_OLCV_20240307085418.pdf

PLU_29_20_BS_FH_20240307085418.pdf

PLU_29_20_BS_BOP_BTV_20240307085418.pdf

PLU_29_20_BS_MBS_20240503110521.pdf





Casing Assumptions

Casing	Design									
	Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
	12.25	0' - 860'	9.625	40	J-55	BTC	New	1.45	7.32	18.31
	8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.86	2.71	1.89
	8.75	4000' – 9929.99'	7.625	29.7	HC L-80	Flush Joint	New	2.08	2.09	2.31
	6.75	0' - 9829.99'	5.5	20	RY P-110	Semi-Premium	New	1.26	2.07	2.17
	6.75	9829.99' - 21333.54'	5.5	20	RY P-110	Semi-Flush	New	1.26	2.00	2.17

Cement Variance Request

Intermediate Casing:

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6833') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing:

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

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.

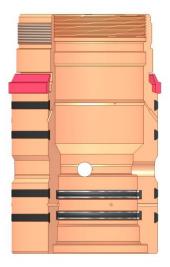
1. Cement Program

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

2. Offline Cementing Procedure

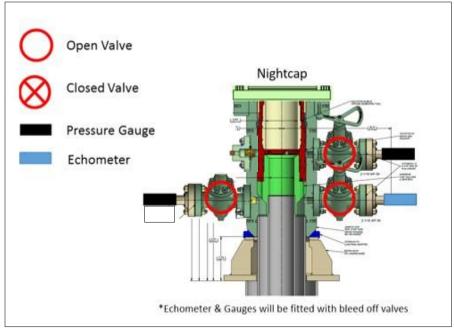
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

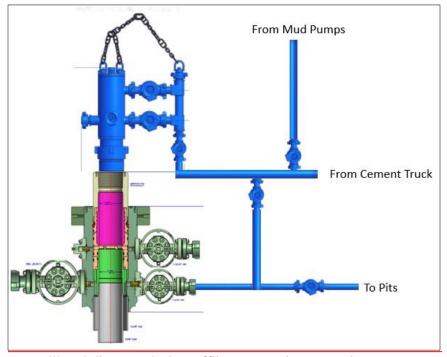
XTO Permian Operating, LLC Offline Cementing Variance Request



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.



GATES E & S NORTH AMERICA, INC

DU-TEX

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX: 361-887-0812

EMAIL: crpe&s@gates.com

WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer: Customer Ref. :

Invoice No.:

AUSTIN DISTRIBUTING

201709

PENDING

Test Date: Hose Senal No.:

Created By:

6/8/2014

D-060814-1

NORMA

Product Description:

FD3.042.0R41/16.5KFLGE/E LE

End Filting 1:

Gates Part No. :

Working Pressure:

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

5,000 PSI

End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 in.5K FLG

L33090011513D-060814-1

7,500 PSI

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

Quality:

Date:

Signature:

QUALITY

6/8/2014

Technical Supervisor:

Date:

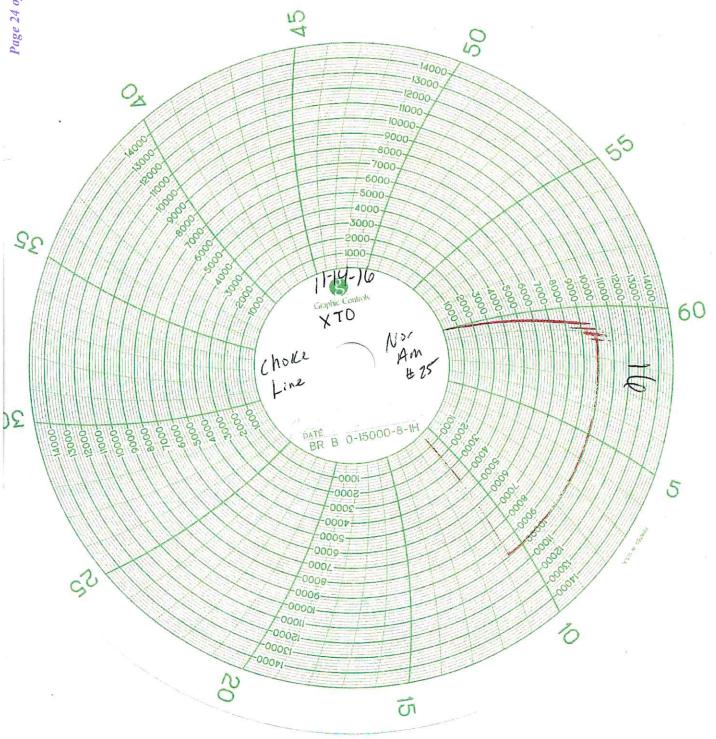
Signature:

PRODUCTION

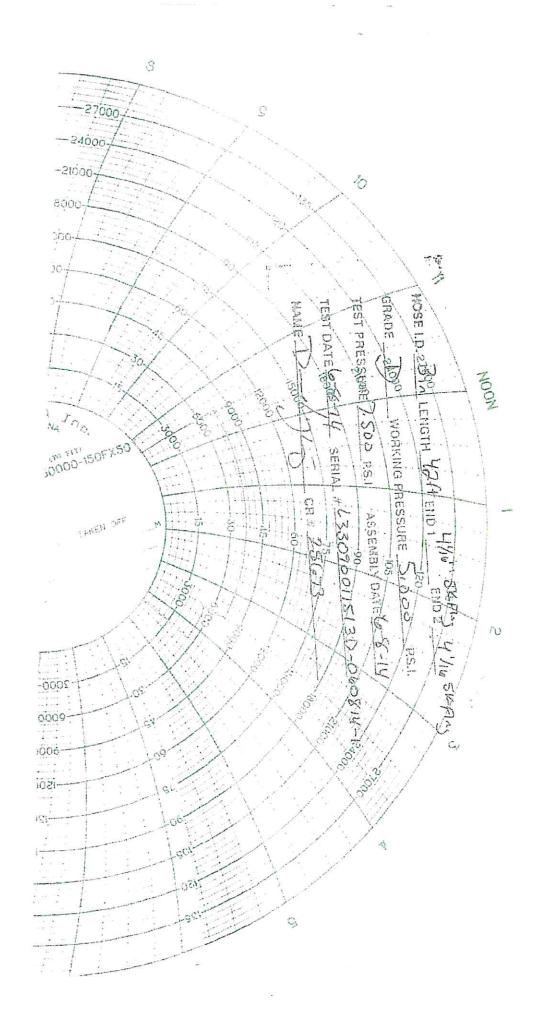
6/8/2014

Form PTC - 01 Rev.0 2

Received by OCD: 5/24/2024 12:56:46 PM



Received by OCD: 5/24/2024 12:56:46 PM



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 CFR Title 43 Part 3170, 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. CFR Title 43 Part 3170 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 CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 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 CFR Title 43 Part 3170 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. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

2	API STANDARD	53	
Tal	ole C.4—Initial Pressure Te	esting, Surface BOP Stacks	
	Pressure Test—Low	Pressure Test—	-High Pressureac
Component to be Pressure Tested	Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	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 ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
	during the evaluation period. The p	pressure shall not decrease below the allest OD drill pipe to be used in well	
	from one wellhead to another withi when the integrity of a pressure se	n the 21 days, pressure testing is req al is broken.	uired for pressure-containing ar
	land operations, the ram BOPs sha	ted with the ram locks engaged and all be pressure tested with the ram lo	

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 CFR Title 43 Part 317 Oand 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 CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

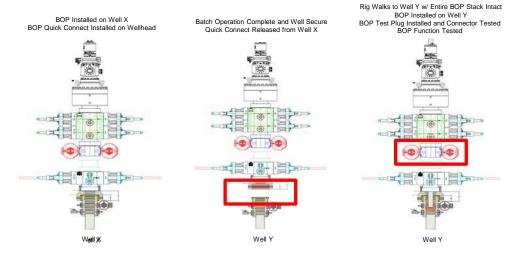
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- XTO Energy will use this document for our break testing plan for New Mexico Delaware basin.
 The summary below will be referenced in the APD or Sundry Notice and receive approval prior
 to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - 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



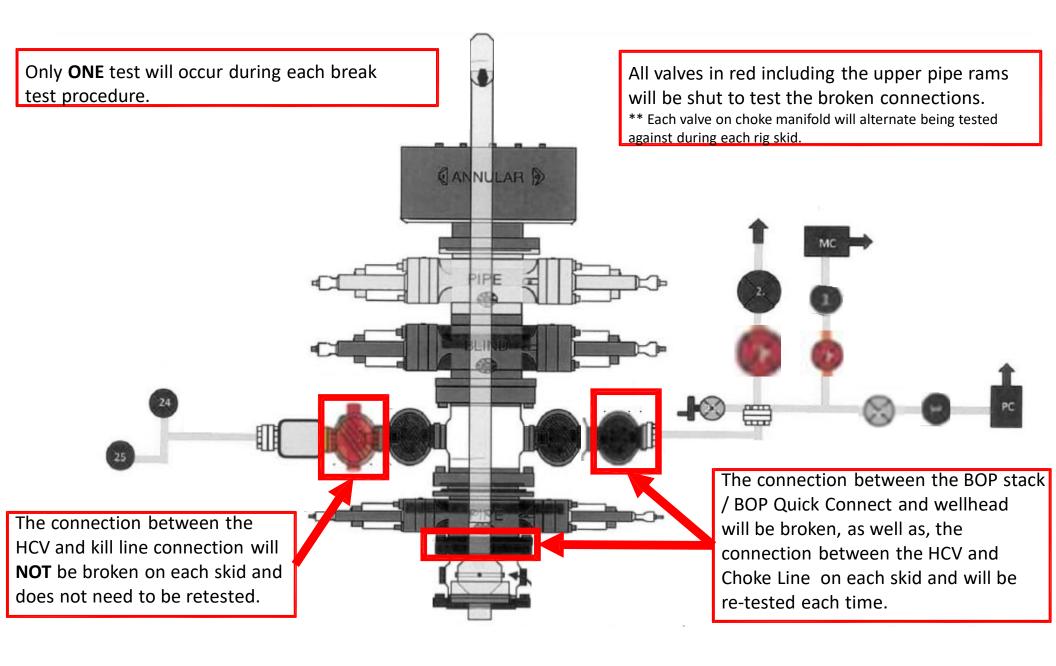
Summary

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.



ALL DIMENSIONS APPROXIMA

CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

	XTO ENERGY INDELAWARE BASI	_
DRAWN	VJK	31MAR2
APPRV		

DRAWING NO. HBE0000479

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Well Plan Report - PLU 29-20 122H

Measured Depth: 21333.54 ft Site: A

TVD RKB: 10161.00 ft **Slot**: PLU 29-20 122H

Location

New Mexico East -Cartographic Reference System: NAD 27 Northing: 403042.20 ft Easting: 664096.00 ft **RKB**: 3395.00 ft **Ground Level:** 3363.00 ft North Reference: Grid Convergence Angle: 0.28 Deg

Plan Sections PLU 29-20 122H

Measured			TVD			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
2519.01	28.38	140.98	2461.69	- 267.49	216.79	2.00	0.00	2.00
7266.17	28.38	140.98	6638.31	-2020.50	1637.50	0.00	0.00	0.00
8685.18	0.00	0.00	8000.00	-2288.00	1854.28	- 2.00	0.00	2.00
10129.99	0.00	0.00	9444.80	-2288.00	1854.28	0.00	0.00	0.00
11254.99	90.00	0.03	10161.00	-1571.80	1854.70	8.00	0.00	8.00 FTP 7
21234.69	90.00	0.03	10161.00	8407.90	1860.50	0.00	0.00	0.00 LTP 7
21333.54	90.00	0.03	10161.00	8506.75	1860.56	0.00	0.00	0.00 BHL 7

Position Uncertainty PLU 29-20 122H

Measured TVD Highside Lateral Vertical Magnitude Semi-major Semi-minor Tool

Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.531	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.581	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.634	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	140.977	1199.980	4.378	0.000	5.000	-0.000	2.691	0.000	0.000	5.037	4.337	127.170	MWD+IFR1+MS
1300.000	4.000	140.977	1299.838	5.238	0.000	5.313	-0.000	2.751	0.000	0.000	5.557	4.986	99.419	MWD+IFR1+MS
1400.000	6.000	140.977	1399.452	5.990	0.000	5.633	-0.000	2.816	0.000	0.000	6.233	5.380	82.983	MWD+IFR1+MS
1500.000	8.000	140.977	1498.702	6.670	0.000	5.958	-0.000	2.889	0.000	0.000	6.908	5.712	76.823	MWD+IFR1+MS
1600.000	10.000	140.977	1597.465	7.297	0.000	6.290	-0.000	2.972	0.000	0.000	7.548	6.036	73.950	MWD+IFR1+MS
1700.000	12.000	140.977	1695.623	7.883	0.000	6.628	-0.000	3.067	0.000	0.000	8.155	6.362	72.362	MWD+IFR1+MS
1800.000	14.000	140.977	1793.055	8.434	0.000	6.975	-0.000	3.175	0.000	0.000	8.732	6.695	71.398	MWD+IFR1+MS
1900.000	16.000	140.977	1889.643	8.958	0.000	7.329	-0.000	3.298	0.000	0.000	9.285	7.036	70.790	MWD+IFR1+MS
2000.000	18.000	140.977	1985.268	9.457	0.000	7.694	-0.000	3.438	0.000	0.000	9.817	7.387	70.411	MWD+IFR1+MS
2100.000	20.000	140.977	2079.816	9.936	0.000	8.069	-0.000	3.596	0.000	0.000	10.330	7.749	70.196	MWD+IFR1+MS
2200.000	22.000	140.977	2173.169	10.397	0.000	8.456	-0.000	3.773	0.000	0.000	10.828	8.124	70.109	MWD+IFR1+MS
2300.000	24.000	140.977	2265.215	10.843	0.000	8.857	-0.000	3.969	0.000	0.000	11.313	8.513	70.133	MWD+IFR1+MS
2400.000	26.000	140.977	2355.841	11.274	0.000	9.272	-0.000	4.187	0.000	0.000	11.785	8.916	70.260	MWD+IFR1+MS
2500.000	28.000	140.977	2444.937	11.694	0.000	9.703	-0.000	4.426	0.000	0.000	12.246	9.335	70.492	MWD+IFR1+MS
2519.011	28.380	140.977	2461.693	11.731	0.000	9.783	-0.000	4.443	0.000	0.000	12.302	9.415	70.568	MWD+IFR1+MS
2600.000	28.380	140.977	2532.948	11.980	0.000	10.133	-0.000	4.557	0.000	0.000	12.527	9.766	71.110	MWD+IFR1+MS
2700.000	28.380	140.977	2620.929	12.303	0.000	10.587	-0.000	4.711	0.000	0.000	12.823	10.214	72.036	MWD+IFR1+MS
2800.000	28.380	140.977	2708.911	12.639	0.000	11.054	-0.000	4.875	0.000	0.000	13.131	10.671	73.124	MWD+IFR1+MS
2900.000	28.380	140.977	2796.892	12.986	0.000	11.528	-0.000	5.046	0.000	0.000	13.450	11.133	74.346	MWD+IFR1+MS

3000.000	28.380	140.977	2884.873	13.341	0.000	12.010	-0.000	5.224	0.000	0.000	13.778	11.600	75.722	MWD+IFR1+MS
3100.000	28.380	140.977	2972.854	13.705	0.000	12.498		5.408		0.000	14.115	12.070		MWD+IFR1+MS
3200.000	28.380	140.977	3060.836	14.076	0.000		-0.000	5.598		0.000	14.463	12.542		MWD+IFR1+MS
3300,000	28,380	140.977	3148,817	14.455	0.000		-0.000	5.792		0.000	14.820	13.016		MWD+IFR1+MS
3400,000	28,380	140.977	3236.798	14.841	0.000		-0.000	5.991		0.000	15.187	13.488		MWD+IFR1+MS
3500,000	28,380	140.977	3324.780	15.232	0.000	14.499		6.195		0.000	15.565	13.959		MWD+IFR1+MS
3600.000	28,380	140.977	3412.761	15.629	0.000		-0.000	6.402		0.000	15.953	14.428		MWD+IFR1+MS
3700,000	28,380	140.977	3500.742	16.032	0.000		-0.000	6.612		0.000	16.354	14.892		MWD+IFR1+MS
3800.000	28.380	140.977	3588.723	16.439	0.000	16.039		6.826		0.000	16.767	15.351		MWD+IFR1+MS
3900,000	28,380	140.977	3676.705	16.851	0.000	16.558		7.043		0.000	17.192	15.803		MWD+IFR1+MS
4000.000	28.380	140.977	3764.686	17.266	0.000	17.079		7.263		0.000	17.631	16.249		MWD+IFR1+MS
4100.000	28.380	140.977	3852.667	17.686	0.000	17.602		7.485		0.000	18.081	16.689		MWD+IFR1+MS
4200.000	28.380	140.977	3940.648	18.110	0.000	18.128		7.709		0.000	18.543	17.121		MWD+IFR1+MS
4300,000	28.380	140.977	4028.630	18.536	0.000	18.655		7.936		0.000	19.016	17.548		MWD+IFR1+MS
4400.000	28.380	140.977	4116.611	18.966	0.000		-0.000	8.165		0.000	19.498	17.970		MWD+IFR1+MS
4500.000	28.380	140.977	4204.592	19.399	0.000		-0.000	8.396		0.000	19.989	18.388		MWD+IFR1+MS
4600.000	28.380	140.977	4292.573	19.835	0.000	20.246		8.628	0.000	0.000	20.488	18.802	118.307	MWD+IFR1+MS
4700.000	28.380	140.977	4380.555	20.273	0.000	20.779		8.863		0.000	20.992	19.213		MWD+IFR1+MS
4800.000	28.380	140.977	4468.536	20.714	0.000	21.313		9.099	0.000	0.000	21.502	19.623	122.123	MWD+IFR1+MS
4900.000	28.380	140.977	4556.517	21.156	0.000	21.849	-0.000	9.337	0.000	0.000	22.016	20.031	123.718	MWD+IFR1+MS
5000.000	28.380	140.977	4644.499	21.601	0.000	22.385	-0.000	9.576	0.000	0.000	22.535	20.439	125.136	MWD+IFR1+MS
5100.000	28.380	140.977	4732.480	22.048	0.000	22.923	-0.000	9.817	0.000	0.000	23.056	20.846	126.399	MWD+IFR1+MS
5200.000	28.380	140.977	4820.461	22.497	0.000	23.461	-0.000	10.059	0.000	0.000	23.581	21.252	127.526	MWD+IFR1+MS
5300.000	28.380	140.977	4908.442	22.947	0.000	24.000	-0.000	10.303	0.000	0.000	24.108	21.659	128.535	MWD+IFR1+MS
5400.000	28.380	140.977	4996.424	23.400	0.000	24.540	-0.000	10.548	0.000	0.000	24.637	22.066	129.441	MWD+IFR1+MS
5500.000	28.380	140.977	5084.405	23.853	0.000	25.080	-0.000	10.794	0.000	0.000	25.169	22.473	130.258	MWD+IFR1+MS
5600.000	28.380	140.977	5172.386	24.309	0.000	25.622	-0.000	11.042	0.000	0.000	25.702	22.881	130.997	MWD+IFR1+MS
5700.000	28.380	140.977	5260.367	24.765	0.000	26.164	-0.000	11.291	0.000	0.000	26.237	23.290	131.668	MWD+IFR1+MS
5800.000	28.380	140.977	5348.349	25.223	0.000	26.706	-0.000	11.541	0.000	0.000	26.773	23.698	132.279	MWD+IFR1+MS
5900.000	28.380	140.977	5436.330	25.682	0.000	27.249	-0.000	11.792	0.000	0.000	27.310	24.108	132.837	MWD+IFR1+MS
6000.000	28.380	140.977	5524.311	26.143	0.000	27.793	-0.000	12.045	0.000	0.000	27.848	24.518	133.349	MWD+IFR1+MS
6100.000	28.380	140.977	5612.292	26.604	0.000	28.337	-0.000	12.298	0.000	0.000	28.388	24.929	133.819	MWD+IFR1+MS
6200.000	28.380	140.977	5700.274	27.067	0.000	28.882	-0.000	12.553	0.000	0.000	28.928	25.341	134.252	MWD+IFR1+MS

6300.000	28.380	140.977	5788.255	27.530	0.000	29.427	-0.000	12.809	0.000	0.000	29.469	25.753	134.653 I	MWD+IFR1+MS
6400.000	28.380	140.977	5876.236	27.995	0.000	29.972	-0.000	13.066	0.000	0.000	30.011	26.166	- 44.976	MWD+IFR1+MS
6500.000	28.380	140.977	5964.218	28.460	0.000	30.518	-0.000	13.324	0.000	0.000	30.554	26.579	-44.631 I	MWD+IFR1+MS
6600.000	28.380	140.977	6052.199	28.926	0.000	31.064	-0.000	13.584	0.000	0.000	31.097	26.994	-44.310 I	MWD+IFR1+MS
6700.000	28.380	140.977	6140.180	29.393	0.000	31.611	-0.000	13.844	0.000	0.000	31.641	27.409	-44.011 I	MWD+IFR1+MS
6800.000	28.380	140.977	6228.161	29.861	0.000	32.158	-0.000	14.105	0.000	0.000	32.185	27.825	-43.731 I	MWD+IFR1+MS
6900.000	28.380	140.977	6316.143	30.330	0.000	32.705	-0.000	14.368	0.000	0.000	32.730	28.241	-43.468 I	MWD+IFR1+MS
7000.000	28.380	140.977	6404.124	30.799	0.000	33.253	-0.000	14.632	0.000	0.000	33.276	28.658	-43.222 I	MWD+IFR1+MS
7100.000	28.380	140.977	6492.105	31.269	0.000	33.801	-0.000	14.897	0.000	0.000	33.822	29.076	-42.991 I	MWD+IFR1+MS
7200.000	28.380	140.977	6580.086	31.740	0.000	34.349	-0.000	15.163	0.000	0.000	34.368	29.494	-42.773 I	MWD+IFR1+MS
7266.174	28.380	140.977	6638.307	32.050	0.000	34.710	-0.000	15.338	0.000	0.000	34.728	29.770	-42.615 I	MWD+IFR1+MS
7300.000	27.704	140.977	6668.162	32.236	0.000	34.892	-0.000	15.428	0.000	0.000	34.910	29.910	-42.533 I	MWD+IFR1+MS
7400.000	25.704	140.977	6757.492	32.792	0.000	35.421	-0.000	15.698	0.000	0.000	35.438	30.353	-42.413 I	MWD+IFR1+MS
7500.000	23.704	140.977	6848.335	33.342	0.000	35.933	-0.000	15.970	0.000	0.000	35.950	30.830	-42.453 I	MWD+IFR1+MS
7600.000	21.704	140.977	6940.582	33.841	0.000	36.424	-0.000	16.222	0.000	0.000	36.442	31.302	-42.509 I	MWD+IFR1+MS
7700.000	19.704	140.977	7034.119	34.287	0.000	36.895	-0.000	16.455	0.000	0.000	36.913	31.768	-42.580 I	MWD+IFR1+MS
7800.000	17.704	140.977	7128.833	34.679	0.000	37.344	-0.000	16.671	0.000	0.000	37.364	32.226	-42.667 I	MWD+IFR1+MS
7900.000	15.704	140.977	7224.609	35.018	0.000	37.773	-0.000	16.871	0.000	0.000	37.793	32.675	-42.769 I	MWD+IFR1+MS
8000.000	13.704	140.977	7321.329	35.303	0.000	38.181	-0.000	17.055	0.000	0.000	38.202	33.114	-42.886 I	MWD+IFR1+MS
8100.000	11.704	140.977	7418.876	35.533	0.000	38.568	-0.000	17.226	0.000	0.000	38.591	33.542	-43.017 I	MWD+IFR1+MS
8200.000	9.704	140.977	7517.131	35.709	0.000	38.935	-0.000	17.385	0.000	0.000	38.959	33.957	-43.164 I	MWD+IFR1+MS
8300.000	7.704	140.977	7615.975	35.832	0.000	39.282	-0.000	17.534	0.000	0.000	39.308	34.358	-43.325 I	MWD+IFR1+MS
8400.000	5.704	140.977	7715.286	35.900	0.000	39.609	-0.000	17.672	0.000	0.000	39.637	34.745	-43.500 I	MWD+IFR1+MS
8500.000	3.704	140.977	7814.944	35.914	0.000	39.917	-0.000	17.803	0.000	0.000	39.947	35.117	-43.689 I	MWD+IFR1+MS
8600.000	1.704	140.977	7914.828	35.876	0.000	40.206	-0.000	17.928	0.000	0.000	40.239	35.473	-43.892 I	MWD+IFR1+MS
8685.185	0.000	0.000	8000.000	38.056	0.000	38.245	0.000	18.030	0.000	0.000	40.456	35.697	-43.860 I	MWD+IFR1+MS
8700.000	0.000	0.000	8014.815	38.093	0.000	38.279	0.000	18.047	0.000	0.000	40.490	35.734	-43.873 I	MWD+IFR1+MS
8800.000	0.000	0.000	8114.815	38.338	0.000	38.512	0.000	18.167	0.000	0.000	40.725	35.978	-43.949 I	MWD+IFR1+MS
8900.000	0.000	0.000	8214.815	38.589	0.000	38.749	0.000	18.290	0.000	0.000	40.968	36.225	- 44.027 I	MWD+IFR1+MS
9000.000	0.000	0.000	8314.815	38.841	0.000	38.989	0.000	18.416	0.000	0.000	41.212	36.474	-44.104 I	MWD+IFR1+MS
9100.000	0.000	0.000	8414.815	39.095	0.000	39.230	0.000	18.545	0.000	0.000	41.458	36.724	-44.180 I	MWD+IFR1+MS
9200.000	0.000	0.000	8514.815	39.350	0.000	39.473	0.000	18.678	0.000	0.000	41.705	36.976	-44.255 I	MWD+IFR1+MS
9300.000	0.000	0.000	8614.815	39.607	0.000	39.718	0.000	18.814	0.000	0.000	41.955	37.230	-44.329 I	MWD+IFR1+MS

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9400.000	0.000	0.000	8714.815	39.866	0.000	39.964	0.000	18.953	0.000	0.000	42.205	37.485	-44.402 MWD+IFR1+MS
9500.000	0.000	0.000	8814.815	40.126	0.000	40.212	0.000	19.096	0.000	0.000	42.458	37.742	-44.475 MWD+IFR1+MS
9600.000	0.000	0.000	8914.815	40.388	0.000	40.462	0.000	19.242	0.000	0.000	42.711	38.001	-44.547 MWD+IFR1+MS
9700.000	0.000	0.000	9014.815	40.651	0.000	40.713	0.000	19.392	0.000	0.000	42.967	38.261	-44.618 MWD+IFR1+MS
9800.000	0.000	0.000	9114.815	40.915	0.000	40.966	0.000	19.545	0.000	0.000	43.224	38.523	-44.689 MWD+IFR1+MS
9900.000	0.000	0.000	9214.815	41.181	0.000	41.221	0.000	19.702	0.000	0.000	43.482	38.787	-44.758 MWD+IFR1+MS
10000.000	0.000	0.000	9314.815	41.449	0.000	41.477	0.000	19.862	0.000	0.000	43.742	39.052	-44.827 MWD+IFR1+MS
10100.000	0.000	0.000	9414.815	41.718	0.000	41.735	0.000	20.026	0.000	0.000	44.003	39.318	-44.895 MWD+IFR1+MS
10129.988	0.000	0.000	9444.803	41.797	0.000	41.811	0.000	20.076	0.000	0.000	44.079	39.398	-44.916 MWD+IFR1+MS
10200.000	5.601	0.033	9514.704	40.995	0.000	41.981	0.000	20.191	0.000	0.000	44.288	39.603	134.674 MWD+IFR1+MS
10300.000	13.601	0.033	9613.223	39.974	0.000	42.209	0.000	20.398	0.000	0.000	44.925	40.112	130.538 MWD+IFR1+MS
10400.000	21.601	0.033	9708.464	38.717	0.000	42.411	0.000	20.751	0.000	0.000	45.707	40.586	125.865 MWD+IFR1+MS
10500.000	29.601	0.033	9798.573	37.048	0.000	42.584	0.000	21.308	0.000	0.000	46.428	40.929	122.475 MWD+IFR1+MS
10600.000	37.601	0.033	9881.797	35.122	0.000	42.729	0.000	22.112	0.000	0.000	47.044	41.171	120.178 MWD+IFR1+MS
10700.000	45.601	0.033	9956.515	33.142	0.000	42.845	0.000	23.176	0.000	0.000	47.533	41.338	118.720 MWD+IFR1+MS
10800.000	53.601	0.033	10021.273	31.354	0.000	42.935	0.000	24.481	0.000	0.000	47.887	41.449	117.876 MWD+IFR1+MS
10900.000	61.601	0.033	10074.810	30.034	0.000	43.001	0.000	25.986	0.000	0.000	48.114	41.517	117.461 MWD+IFR1+MS
11000.000	69.601	0.033	10116.086	29.445	0.000	43.045	0.000	27.636	0.000	0.000	48.230	41.557	117.316 MWD+IFR1+MS
11100.000	77.601	0.033	10144.295	29.764	0.000	43.068	0.000	29.367	0.000	0.000	48.262	41.581	117.290 MWD+IFR1+MS
11200.000	85.601	0.033	10158.890	31.018	0.000	43.072	0.000	31.117	0.000	0.000	48.239	41.601	117.227 MWD+IFR1+MS
11254.988	90.000	0.033	10161.000	31.565	-0.000	43.064	0.000	31.565	0.000	0.000	48.216	41.614	117.101 MWD+IFR1+MS
11300.000	90.000	0.033	10161.000	31.753	-0.000	43.056	0.000	31.753	0.000	0.000	48.196	41.626	116.972 MWD+IFR1+MS
11400.000	90.000	0.033	10161.000	32.132	-0.000	43.057	0.000	32.132	0.000	0.000	48.156	41.667	116.743 MWD+IFR1+MS
11500.000	90.000	0.033	10161.000	32.528	-0.000	43.077	0.000	32.528	0.000	0.000	48.120	41.724	116.575 MWD+IFR1+MS
11600.000	90.000	0.033	10161.000	32.939	-0.000	43.116	0.000	32.939	0.000	0.000	48.088	41.797	116.462 MWD+IFR1+MS
11700.000	90.000	0.033	10161.000	33,362	-0.000	43.173	0.000	33.362	0.000	0.000	48.060	41.884	116.408 MWD+IFR1+MS
11800.000	90.000	0.033	10161.000	33.799	-0.000	43.247	0.000	33.799	0.000	0.000	48.035	41.986	116.414 MWD+IFR1+MS
11900.000	90.000	0.033	10161.000	34.248	-0.000	43.339	0.000	34.248	0.000	0.000	48.013	42.102	116.485 MWD+IFR1+MS
12000.000	90.000	0.033	10161.000	34.709	-0.000	43.449	0.000	34.709	0.000	0.000	47.995	42.233	116.626 MWD+IFR1+MS
12100.000	90.000	0.033	10161.000	35.182	-0.000	43.576	0.000	35.182	0.000	0.000	47.981	42.378	116.842 MWD+IFR1+MS
12200.000	90.000	0.033	10161.000	35.665	-0.000	43.721	0.000	35.665	0.000	0.000	47.971	42.537	117.141 MWD+IFR1+MS
12300.000	90.000	0.033	10161.000	36.159	-0.000	43.883	0.000	36.159	0.000	0.000	47.965	42.710	117.533 MWD+IFR1+MS
12400.000	90.000	0.033	10161.000	36.663	-0.000	44.062	0.000	36.663	0.000	0.000	47.963	42.896	118.028 MWD+IFR1+MS

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12500.00	0 90.000	0.033	10161.000	37.177	-0.000	44.258	0.000	37.177	0.000	0.000	47.966	43.094	118.639 N	//WD+IFR1+MS
12600.00	0 90.000	0.033	10161.000	37.701	-0.000	44.470	0.000	37.701	0.000	0.000	47.975	43.303	119.385 N	//WD+IFR1+MS
12700.00	0 90.000	0.033	10161.000	38.233	-0.000	44.699	0.000	38.233	0.000	0.000	47.990	43.523	120.285 N	//WD+IFR1+MS
12800.00	0 90.000	0.033	10161.000	38.774	-0.000	44.944	0.000	38.774	0.000	0.000	48.011	43.753	121.363 N	//WD+IFR1+MS
12900.00	0 90.000	0.033	10161.000	39.323	-0.000	45.205	0.000	39.323	0.000	0.000	48.041	43.991	122.649 N	//WD+IFR1+MS
13000.00	0 90.000	0.033	10161.000	39.880	-0.000	45.481	0.000	39.880	0.000	0.000	48.080	44.235	124.174 N	//WD+IFR1+MS
13100.00	0 90.000	0.033	10161.000	40.444	-0.000	45.773	0.000	40.444	0.000	0.000	48.132	44.483	125.975 N	//WD+IFR1+MS
13200.00	0 90.000	0.033	10161.000	41.016	-0.000	46.079	0.000	41.016	0.000	0.000	48.197	44.732	128.089 N	//WD+IFR1+MS
13300.00	0 90.000	0.033	10161.000	41.594	-0.000	46.401	0.000	41.594	0.000	0.000	48.279	44.980	130.549 N	//WD+IFR1+MS
13400.00	0 90.000	0.033	10161.000	42.180	-0.000	46.736	0.000	42.180	0.000	0.000	48.381	45.221	133.371 N	//WD+IFR1+MS
13500.00	0 90.000	0.033	10161.000	42.771	-0.000	47.086	0.000	42.771	0.000	0.000	48.508	45.453	-43.452 N	//WD+IFR1+MS
13600.00	0 90.000	0.033	10161.000	43.369	-0.000	47.450	0.000	43.369	0.000	0.000	48.663	45.671	-39.968 N	//WD+IFR1+MS
13700.00	0 90.000	0.033	10161.000	43.973	-0.000	47.827	0.000	43.973	0.000	0.000	48.850	45.870	-36.274 N	//WD+IFR1+MS
13800.00	0 90.000	0.033	10161.000	44.582	-0.000	48.217	0.000	44.582	0.000	0.000	49.071	46.049	-32.503 N	//WD+IFR1+MS
13900.00	0 90.000	0.033	10161.000	45.197	-0.000	48.620	0.000	45.197	0.000	0.000	49.328	46.206	-28.803 N	//WD+IFR1+MS
14000.000	0 90.000	0.033	10161.000	45.817	-0.000	49.035	0.000	45.817	0.000	0.000	49.619	46.341	-25.308 N	//WD+IFR1+MS
14100.000	0 90.000	0.033	10161.000	46.442	-0.000	49.463	0.000	46.442	0.000	0.000	49.943	46.455	-22.109 N	//WD+IFR1+MS
14200.000	0 90.000	0.033	10161.000	47.072	-0.000	49.903	0.000	47.072	0.000	0.000	50.297	46.552	-19.252 N	//WD+IFR1+MS
14300.000	0 90.000	0.033	10161.000	47.706	-0.000	50.354	0.000	47.706	0.000	0.000	50.678	46.634	-16.743 N	//WD+IFR1+MS
14400.000	0 90.000	0.033	10161.000	48.345	-0.000	50.816	0.000	48.345	0.000	0.000	51.083	46.704	-14.563 N	//WD+IFR1+MS
14500.000	0 90.000	0.033	10161.000	48.988	-0.000	51.290	0.000	48.988	0.000	0.000	51.509	46.764	-12.679 N	//WD+IFR1+MS
14600.000	0 90.000	0.033	10161.000	49.635	-0.000	51.774	0.000	49.635	0.000	0.000	51.955	46.815	-11.053 N	//WD+IFR1+MS
14700.000	0 90.000	0.033	10161.000	50.286	-0.000	52.268	0.000	50.286	0.000	0.000	52.417	46.860	-9.650 N	//WD+IFR1+MS
14800.000	0 90.000	0.033	10161.000	50.941	-0.000	52.773	0.000	50.941	0.000	0.000	52.895	46.900	-8.435 N	//WD+IFR1+MS
14900.000	0 90.000	0.033	10161.000	51.599	-0.000	53.287	0.000	51.599	0.000	0.000	53.388	46.935	-7.381 N	//WD+IFR1+MS
15000.000	0 90.000	0.033	10161.000	52.261	-0.000	53.811	0.000	52.261	0.000	0.000	53.894	46.968	-6.462 N	//WD+IFR1+MS
15100.000	0 90.000	0.033	10161.000	52.926	-0.000	54.344	0.000	52.926	0.000	0.000	54.412	46.997	-5.658 N	//WD+IFR1+MS
15200.000	0 90.000	0.033	10161.000	53.595	-0.000	54.886	0.000	53.595	0.000	0.000	54.941	47.025	-4.951 N	//WD+IFR1+MS
15300.000	0 90.000	0.033	10161.000	54.266	-0.000	55.437	0.000	54.266	0.000	0.000	55.482	47.050	-4.328 N	//WD+IFR1+MS
15400.000	0 90.000	0.033	10161.000	54.941	-0.000	55.996	0.000	54.941	0.000	0.000	56.032	47.075	-3.777 N	//WD+IFR1+MS
15500.000	0 90.000	0.033	10161.000	55.618	-0.000	56.563	0.000	55.618	0.000	0.000	56.592	47.098	-3.286 N	//WD+IFR1+MS
15600.000	0 90.000	0.033	10161.000	56.299	-0.000	57.138	0.000	56.299	0.000	0.000	57.161	47.121	-2.849 N	//WD+IFR1+MS
15700.000	0 90.000	0.033	10161.000	56.982	-0.000	57.721	0.000	56.982	0.000	0.000	57.739	47.143	-2.458 N	//WD+IFR1+MS

15800	.000 9	000.00	0.033	10161.000	57.667	-0.000	58.312	0.000	57.667	0.000	0.000	58.326	47.164	-2.107	MWD+IFR1+MS
15900	.000	000.00	0.033	10161.000	58.355	-0.000	58.910	0.000	58.355	0.000	0.000	58.920	47.185	-1.792	MWD+IFR1+MS
16000	.000	90.000	0.033	10161.000	59.046	-0.000	59.514	0.000	59.046	0.000	0.000	59.522	47.206	-1.507	MWD+IFR1+MS
16100	.000	00.00	0.033	10161.000	59.739	-0.000	60.126	0.000	59.739	0.000	0.000	60.132	47.227	-1.249	MWD+IFR1+MS
16200	.000	000.00	0.033	10161.000	60.434	-0.000	60.744	0.000	60.434	0.000	0.000	60.748	47.247	-1.015	MWD+IFR1+MS
16300	.000	00.00	0.033	10161.000	61.131	-0.000	61.369	0.000	61.131	0.000	0.000	61.371	47.268	-0.803	MWD+IFR1+MS
16400	.000	00.00	0.033	10161.000	61.830	-0.000	62.000	0.000	61.830	0.000	0.000	62.001	47.289	-0.609	MWD+IFR1+MS
16500	.000	00.000	0.033	10161.000	62.531	-0.000	62.637	0.000	62.531	0.000	0.000	62.637	47.310	-0.433	MWD+IFR1+MS
16600	.000	00.00	0.033	10161.000	63.235	-0.000	63.279	0.000	63.235	0.000	0.000	63.280	47.331	-0.272	MWD+IFR1+MS
16700	.000	00.00	0.033	10161.000	63.940	-0.000	63.928	0.000	63.940	0.000	0.000	63.928	47.352	-0.124	MWD+IFR1+MS
16800	.000 9	00.00	0.033	10161.000	64.647	-0.000	64.582	0.000	64.647	0.000	0.000	64.582	47.373	0.011	MWD+IFR1+MS
16900	.000	00.00	0.033	10161.000	65.356	-0.000	65.241	0.000	65.356	0.000	0.000	65.241	47.395	0.135	MWD+IFR1+MS
17000	.000 9	000.00	0.033	10161.000	66.066	-0.000	65.905	0.000	66.066	0.000	0.000	65.906	47.417	0.249	MWD+IFR1+MS
17100	.000 9	000.00	0.033	10161.000	66.779	-0.000	66.575	0.000	66.779	0.000	0.000	66.575	47.440	0.354	MWD+IFR1+MS
17200	.000 9	000.00	0.033	10161.000	67.492	-0.000	67.249	0.000	67.492	0.000	0.000	67.250	47.462	0.451	MWD+IFR1+MS
17300	.000 9	000.00	0.033	10161.000	68.208	-0.000	67.928	0.000	68.208	0.000	0.000	67.930	47.486	0.540	MWD+IFR1+MS
17400	.000	000.00	0.033	10161.000	68.925	-0.000	68.612	0.000	68.925	0.000	0.000	68.614	47.509	0.622	MWD+IFR1+MS
17500.	.000 9	000.00	0.033	10161.000	69.643	-0.000	69.300	0.000	69.643	0.000	0.000	69.303	47.533	0.698	MWD+IFR1+MS
17600	.000 9	000.00	0.033	10161.000	70.363	-0.000	69.993	0.000	70.363	0.000	0.000	69.996	47.557	0.768	MWD+IFR1+MS
17700.	.000 9	000.00	0.033	10161.000	71.084	-0.000	70.689	0.000	71.084	0.000	0.000	70.693	47.582	0.833	MWD+IFR1+MS
17800	.000 9	000.00	0.033	10161.000	71.806	-0.000	71.390	0.000	71.806	0.000	0.000	71.395	47.607	0.893	MWD+IFR1+MS
17900	.000 9	000.00	0.033	10161.000	72.530	-0.000	72.095	0.000	72.530	0.000	0.000	72.100	47.632	0.948	MWD+IFR1+MS
18000	.000	000.00	0.033	10161.000	73.255	-0.000	72.803	0.000	73.255	0.000	0.000	72.809	47.658	1.000	MWD+IFR1+MS
18100	.000	000.00	0.033	10161.000	73.981	-0.000	73.516	0.000	73.981	0.000	0.000	73.522	47.684	1.047	MWD+IFR1+MS
18200	.000	000.00	0.033	10161.000	74.709	-0.000	74.231	0.000	74.709	0.000	0.000	74.239	47.711	1.091	MWD+IFR1+MS
18300	.000 9	000.00	0.033	10161.000	75.437	-0.000	74.951	0.000	75.437	0.000	0.000	74.959	47.738	1.132	MWD+IFR1+MS
18400	.000	000.00	0.033	10161.000	76.167	-0.000	75.674	0.000	76.167	0.000	0.000	75.683	47.766	1.170	MWD+IFR1+MS
18500	.000	000.00	0.033	10161.000	76.898	-0.000	76.400	0.000	76.898	0.000	0.000	76.409	47.794	1.205	MWD+IFR1+MS
18600	.000	000.00	0.033	10161.000	77.630	-0.000	77.129	0.000	77.630	0.000	0.000	77.140	47.822	1.238	MWD+IFR1+MS
18700.	.000	000.00	0.033	10161.000	78.362	-0.000	77.862	0.000	78.362	0.000	0.000	77.873	47.851	1.268	MWD+IFR1+MS
18800	.000 9	000.00	0.033	10161.000	79.096	-0.000	78.597	0.000	79.096	0.000	0.000	78.609	47.881	1.296	MWD+IFR1+MS
18900	.000 9	000.00	0.033	10161.000	79.831	-0.000	79.336	0.000	79.831	0.000	0.000	79.348	47.911	1.322	MWD+IFR1+MS
19000	.000 9	000.00	0.033	10161.000	80.567	-0.000	80.077	0.000	80.567	0.000	0.000	80.090	47.941	1.346	MWD+IFR1+MS

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19100.000	90.000	0.033	10161.000	81.304	-0.000	80.821	0.000	81.304	0.000	0.000	80.835	47.972	1.369	MWD+IFR1+MS
19200.000	90.000	0.033	10161.000	82.041	-0.000	81.568	0.000	82.041	0.000	0.000	81.583	48.003	1.389	MWD+IFR1+MS
19300.000	90.000	0.033	10161.000	82.780	-0.000	82.318	0.000	82.780	0.000	0.000	82.333	48.035	1.408	MWD+IFR1+MS
19400.000	90.000	0.033	10161.000	83.519	-0.000	83.070	0.000	83.519	0.000	0.000	83.086	48.067	1.426	MWD+IFR1+MS
19500.000	90.000	0.033	10161.000	84.259	-0.000	83.824	0.000	84.259	0.000	0.000	83.841	48.100	1.442	MWD+IFR1+MS
19600.000	90.000	0.033	10161.000	85.000	-0.000	84.581	0.000	85.000	0.000	0.000	84.599	48.133	1.457	MWD+IFR1+MS
19700.000	90.000	0.033	10161.000	85.742	-0.000	85.341	0.000	85.742	0.000	0.000	85.359	48.166	1.471	MWD+IFR1+MS
19800.000	90.000	0.033	10161.000	86.484	-0.000	86.103	0.000	86.484	0.000	0.000	86.122	48.200	1.483	MWD+IFR1+MS
19900.000	90.000	0.033	10161.000	87.227	-0.000	86.867	0.000	87.227	0.000	0.000	86.886	48.235	1.495	MWD+IFR1+MS
20000.000	90.000	0.033	10161.000	87.971	-0.000	87.633	0.000	87.971	0.000	0.000	87.653	48.270	1.506	MWD+IFR1+MS
20100.000	90.000	0.033	10161.000	88.716	-0.000	88.401	0.000	88.716	0.000	0.000	88.422	48.305	1.515	MWD+IFR1+MS
20200.000	90.000	0.033	10161.000	89.461	-0.000	89.172	0.000	89.461	0.000	0.000	89.193	48.341	1.524	MWD+IFR1+MS
20300.000	90.000	0.033	10161.000	90.207	-0.000	89.944	0.000	90.207	0.000	0.000	89.966	48.377	1.532	MWD+IFR1+MS
20400.000	90.000	0.033	10161.000	90.954	-0.000	90.719	0.000	90.954	0.000	0.000	90.741	48.414	1.540	MWD+IFR1+MS
20500.000	90.000	0.033	10161.000	91.701	-0.000	91.495	0.000	91.701	0.000	0.000	91.518	48.451	1.546	MWD+IFR1+MS
20600.000	90.000	0.033	10161.000	92.449	-0.000	92.273	0.000	92.449	0.000	0.000	92.297	48.489	1.552	MWD+IFR1+MS
20700.000	90.000	0.033	10161.000	93.197	-0.000	93.053	0.000	93.197	0.000	0.000	93.077	48.527	1.557	MWD+IFR1+MS
20800.000	90.000	0.033	10161.000	93.946	-0.000	93.835	0.000	93.946	0.000	0.000	93.860	48.566	1.562	MWD+IFR1+MS
20900.000	90.000	0.033	10161.000	94.696	-0.000	94.619	0.000	94.696	0.000	0.000	94.644	48.605	1.566	MWD+IFR1+MS
21000.000	90.000	0.033	10161.000	95.446	-0.000	95.404	0.000	95.446	0.000	0.000	95.430	48.644	1.570	MWD+IFR1+MS
21100.000	90.000	0.033	10161.000	96.197	-0.000	96.191	0.000	96.197	0.000	0.000	96.217	48.684	1.573	MWD+IFR1+MS
21200.000	90.000	0.033	10161.000	96.948	-0.000	96.980	0.000	96.948	0.000	0.000	97.006	48.725	1.576	MWD+IFR1+MS
21234.689	90.000	0.033	10161.000	97.209	-0.000	97.253	0.000	97.209	0.000	0.000	97.279	48.739	1.577	MWD+IFR1+MS
21300.000	90.000	0.033	10161.000	97.699	-0.000	97.767	0.000	97.699	0.000	0.000	97.794	48.766	1.578	MWD+IFR1+MS
21333.544	90.000	0.033	10161.000	97.950	-0.000	98.032	0.000	97.950	0.000	0.000	98.058	48.780	1.579	MWD+IFR1+MS
	19200.000 19300.000 19400.000 19500.000 19600.000 19700.000 19800.000 20000.000 20100.000 20300.000 20400.000 20500.000 20700.000 20800.000 21000.000 21100.000 21200.000 21234.689 21300.000	19200.000 90.000 19300.000 90.000 19400.000 90.000 19500.000 90.000 19600.000 90.000 19700.000 90.000 19800.000 90.000 19900.000 90.000 20100.000 90.000 20200.000 90.000 20300.000 90.000 20500.000 90.000 20500.000 90.000 20700.000 90.000 20800.000 90.000 20900.000 90.000 21000.000 90.000 21200.000 90.000 21300.000 90.000	19200.000 90.000 0.033 19300.000 90.000 0.033 19400.000 90.000 0.033 19500.000 90.000 0.033 19600.000 90.000 0.033 19700.000 90.000 0.033 19800.000 90.000 0.033 19900.000 90.000 0.033 20000.000 90.000 0.033 20100.000 90.000 0.033 20200.000 90.000 0.033 20300.000 90.000 0.033 20500.000 90.000 0.033 20600.000 90.000 0.033 20700.000 90.000 0.033 20800.000 90.000 0.033 20900.000 90.000 0.033 21000.000 90.000 0.033 21200.000 90.000 0.033 21234.689 90.000 0.033 21300.000 90.000 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Plan Targets	PLU 29-20 122H
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	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 7	11254.97	401470.40	665950.70	6766.00 RECTANGLE
LTP 7	21234.69	411450.10	665956.50	6766.00 RECTANGLE
BHL 7	21334.22	411549.10	665955.90	6766.00 RECTANGLE

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy Incorporated
WELL NAME & NO.: Poker Lake Unit 29-20 BS 122H
LOCATION: Sec 29-25S-31E-NMP
COUNTY: Eddy County, New Mexico

COA

H_2S	No	O Yes		
Potash / WIPP	None	Secretary	C R-111-P	□ WIPP
Cave / Karst	C Low	Medium	• High	Critical
Wellhead	Conventional	• Multibowl	O Both	Diverter
Cementing	☐ Primary Squeeze		EchoMeter	□ DV Tool
Special Req	Break Testing	☐ Water Disposal	\square COM	Unit
Variance	▼ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
		Batch APD / Sundry		-

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 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The **9-5/8** inch surface casing shall be set at approximately 1000 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *Set depth adjusted per BLM geologist*.
 - 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 hours</u> 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.
- 2. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon** at 6885'
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
- ❖ In <u>High 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.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

If cement does not reach surface, the next casing string must come to surface. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **300 feet** into previous casing string (tieback increased due to not meeting 0.422" clearance requirement.) Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

- 2. Operator has proposed a multi-bowl wellhead assembly. 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 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- 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 (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted Choose an item. 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

• If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

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 (API No. / US Well No. contains 30-015-#####)

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM NM CFO DrillingNotifications@blm.gov; (575) 361-2822

Lea County (API No. / US Well No. contains 30-025-#####)

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240; (575) 689-5981

- 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 **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - 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. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part **3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For

- all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.
- 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.



HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

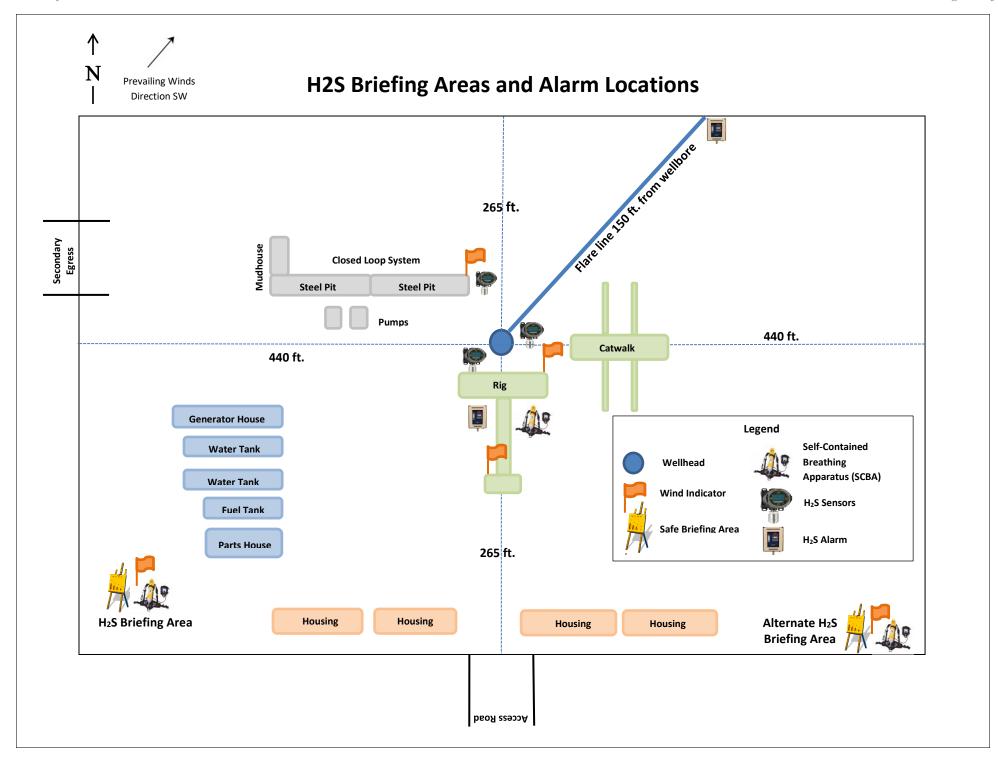
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

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

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL: Christopher Cha, Drilling Manager Matt Water, Drilling Superintendent Robert Bartels, Construction Foreman Andy Owens, EH & S Manager Mike Allen, Production Foreman	432-701-1730 432-967-8203 406-478-3617 903-245-2602 918-421-9056
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 505-629-6116
For Eddy County: Bureau of Land Management - Carlsbad New Mexico Oil Conservation Division - Artesia	575-234-5972 505-629-6116



Operator Name: XTO ENERGY INCORPORATED

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 122H

Safe containment attachment:

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

FACILITY

Disposal type description:

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

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 cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.) Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Operator Name: XTO ENERGY INCORPORATED

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 122H

Section 9 - Well Site

Well Site Layout Diagram:

POKER_LAKE_UNIT_29_20_BS_122H_Well_20240307113820.pdf POKER_LAKE_UNIT_29_20_BS_122H_RL_20240307113820.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: POKER LAKE UNIT 29-20 BS

Multiple Well Pad Number: A

Recontouring

PLU_29_20_BS_IR1_20240307113930.pdf PLU 29 20 BS IR4 20240307113930.pdf PLU_29_20_BS_IR2_20240307113930.pdf PLU_29_20_BS_IR3_20240307113930.pdf

Drainage/Erosion control construction: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance

(acres):

Road proposed disturbance (acres):

Road interim reclamation (acres):

Well pad interim reclamation (acres): Well pad long term disturbance

(acres):

Road long term disturbance (acres):

Powerline proposed disturbance

(acres):

Pipeline proposed disturbance

(acres):

Other proposed disturbance (acres):

Powerline interim reclamation (acres): Powerline long term disturbance

(acres):

Pipeline interim reclamation (acres):

Pipeline long term disturbance

(acres):

Other interim reclamation (acres):

Other long term disturbance (acres):

Total proposed disturbance: Total interim reclamation: Total long term disturbance:

Disturbance Comments: This is an infill well, no new Surface disturbance is planned.

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of

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

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

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

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

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

CONDITIONS

Action 347816

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	347816
	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	5/30/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	5/30/2024
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	5/30/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	5/30/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	5/30/2024
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	5/30/2024