Form 3160-3 (June 2015)		OMB No	APPROVED b. 1004-0137 nuary 31, 2018		
UNITED STATE DEPARTMENT OF THE I	5. Lease Serial No.	Tuary 31, 2016			
BUREAU OF LAND MAN					
APPLICATION FOR PERMIT TO D	ORILL OR REENTER	6. If Indian, Allotee	or Tribe Name		
1a. Type of work: DRILL R	EENTER	7. If Unit or CA Agre	eement, Name and No.		
1b. Type of Well: Oil Well Gas Well O	Other				
1c. Type of Completion: Hydraulic Fracturing S	ingle Zone Multiple Zone	8. Lease Name and V	Well No.		
	_		A		
2. Name of Operator		9. API Well No.	0-015-55078		
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, o	r 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 of	fice*	12. County or Parish	13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease 17. Spacing Unit dedicated to this well				
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 20. BLM	M/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration	on		
	24. Attachments				
The following, completed in accordance with the requirements of (as applicable)	of Onshore Oil and Gas Order No. 1, and the	: Hydraulic Fracturing ru	ile per 43 CFR 3162.3-3		
Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to cover the operation Item 20 above).	ons unless covered by an	existing bond on file (se		
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office		formation 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 applicate applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal or equitable title to those right	ts in the subject lease wh	nich would entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements			ny department or agenc		
		<u> </u>			

APPROVED WITH CONDITIONS Released to Imaging: 5/30/2024 12:40:53 PM Approval Date: 05/23/2024

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 549 FNL / 1915 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.107049 / LONG: -103.780676 (TVD: 0 feet, MD: 0 feet) PPP: SENE / 2115 FNL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.102736 / LONG: -103.775597 (TVD: 10092 feet, MD: 11300 feet) PPP: NENE / 1324 FNL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 21 / LAT: 32.119463 / LONG: -103.775532 (TVD: 10092 feet, MD: 17800 feet) PPP: SENE / 2646 FSL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 21 / LAT: 32.115825 / LONG: -103.775546 (TVD: 10092 feet, MD: 16400 feet) BHL: NESE / 2660 FSL / 330 FEL / TWSP: 25S / RANGE: 31E / SECTION: 16 / LAT: 32.130413 / LONG: -103.775492 (TVD: 10092 feet, MD: 21320 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
District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 <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

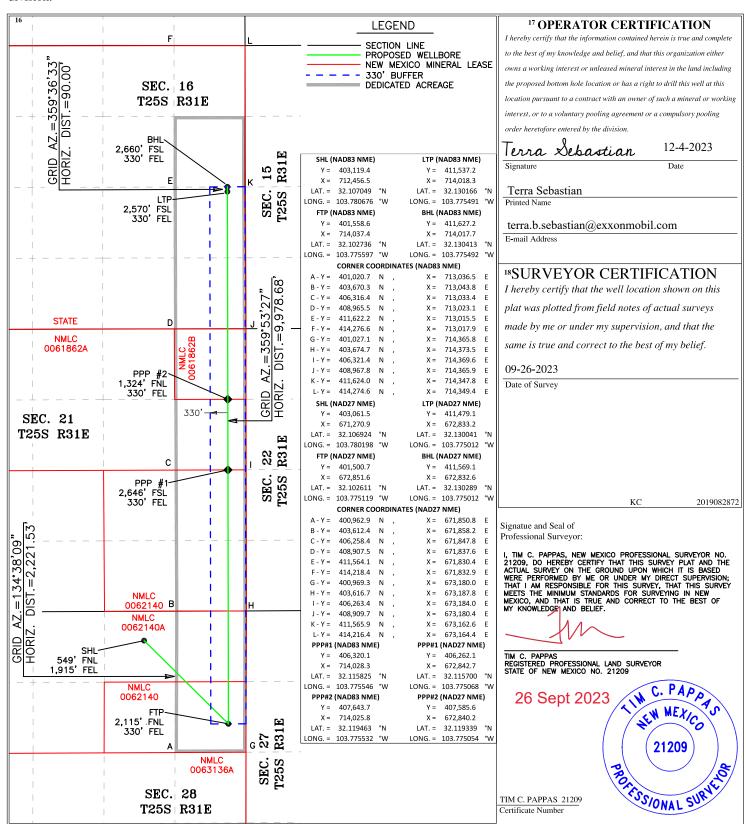
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name				
30-015-55078		96641	Paduca; Bone Spring				
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number			
331529		POKER LAKE UNIT 28-21 BS					
⁷ OGRID No.	⁸ Operator Name			⁹ Elevation			
373075		XTO PERMIA	AN OPERATING, LLC	3,348'			

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
В	28	25 S	31 E		549	NORTH	1,915	EAST	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	
Н	16	25 S	31 E		2,660	SOUTH	330	EAST	EDDY	
12 Dedicated Acres	12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.									
360										

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:3730	075 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	_			or set of wells propo	osed to be drille	ed 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) I	NMAC]

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

Well Name	API	Spud Date	TD 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 <u>EFFECTIVE APRIL 1, 2022</u>

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. 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 res	nonse to	the	increased	line	pressure
-	1 Ittacii O	perator s	pian io	manage	production	111 1 C3	ponse te	, uic	mercasea	11110	prossure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information process.	ovided 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 in	formation
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 28-21 BS



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

Drilling Plan Data Report

Submission Date: 02/07/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Number: 155H

Well Type: OIL WELL

APD ID: 10400096997

Well Work Type: Drill

Show Final Text

Highlighted data reflects the most

recent changes

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13482228	QUATERNARY	3363	0	0	ALLUVIUM	USEABLE WATER	N
13482229	RUSTLER	2470	893	893	ANHYDRITE, SANDSTONE	USEABLE WATER	N
13482230	SALADO	2157	1206	1206	SALT	POTASH	N
13482231	BASE OF SALT	-685	4048	4048	SALT	POTASH	N
13482232	DELAWARE	-901	4264	4264	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482237	BRUSHY CANYON	-3537	6900	6900	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482233	BONE SPRING	-4871	8234	8234	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482234	BONE SPRING 1ST	-5706	9069	9069	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482235	BONE SPRING 2ND	-6325	9688	9688	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 10092

Equipment: Wellhead will be installed by manufacturer's representative. Manufacturer will monitor welding process to ensure appropriate temperature of seal. Operator will test 9 5/8" casing. Wellhead: Permanent Wellhead Multi bowl System

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. 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

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 155H

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_28_21_BS_5MCM_20240503150132.pdf

BOP Diagram Attachment:

MBS_Slim_Hole_20240512165833.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
,	SURFACE	12.2 5	9.625	NEW	API	N	0	993	0	993	3348	2355	993	J-55		OTHER - BTC	6.34	1.45	DRY	15.8 6	DRY	15.8 6
2	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	9931	0	9174	3358	-5826	9931	L-80	-	OTHER - FLUSH JOINT	2.09	2.09	DRY	2.3	DRY	2.3
3	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	21320	0	10092	3358	-6744	21320	P- 110		OTHER - SEMI- FLUSH	2.01	1.26	DRY	2.17	DRY	2.17

Casing Attachments

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 155H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_155H_Csg_20240503120123.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_28_21_BS_155H_Csg_20240503120315.pdf

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_155H_Csg_20240503120341.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_28_21_BS_155H_Csg_20240503120033.pdf

Casing Design Assumptions and Worksheet(s):

PLU_28_21_BS_155H_Csg_20240503120050.pdf

Section 4 - Cement

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 155H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	993	230	1.87	10.5	336.6	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	993	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6900	650	1.35	14.8	877.5	100	Class C	NA
INTERMEDIATE	Tail		6900	9931	780	1.33	14.8	1024. 1	100	Class C	NA
PRODUCTION	Lead		9631	1013 1	20	2.69	11.5	53.8	20	NeoCem	NA
PRODUCTION	Tail		1013 1	2132 0	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. Saturated Salt will be used while drilling through the 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)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
993	4264	SALT SATURATED	10.5	11							

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 155H

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
4264	9931	OTHER : BDE/OBM or FW/Brine	8.6	9.1							
9931	2132 0	OIL-BASED MUD	10.5	11							
0	993	OTHER : FW/Native	8.4	8.9							

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: 5510 Anticipated Surface Pressure: 3289

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_28_21_BS_H2S_Plan_20240503145856.pdf PLU_28_21_BS_H2S_Dia_20240503145857.pdf

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 155H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Poker_Lake_Unit_28_21_BS_155H_DD_20240206153711.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PLU_28_21_BS_155H_Cmt_20240503121158.pdf

Other Variance attachment:

PLU_28_21_BS_Spud_20240503150505.pdf

PLU_28_21_BS_OLCV_20240503150505.pdf

PLU_28_21_BS_BOP_BTV_20240503150506.pdf

PLU_28_21_BS_FH_20240503150506.pdf

PLU_28_21_BS_MBS_20240503150507.pdf

Released to Imaging: 5/30/2024 12:40:53 PM

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

ALL DIMENSIONS APPROXIMA XTO ENERGY INC

DRAWN VJK 31MAR22
APPRV

DRAWING NO. HBE0000479

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY SUTHORIZED BY CACTUS WELLHEAD, LLC.

Casing Assumptions

Casing	Design										
	Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension	
	12.25	0' - 993'	9.625	40	J-55	BTC	New	1.45	6.34	15.86	
	8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.88	2.71	1.89	
	8.75	4000' – 9930.911'	7.625	29.7	HC L-80	Flush Joint	New	2.09	2.09	2.30	
	6.75	0' - 9830.911'	5.5	20	RY P-110	Semi-Premium	New	1.26	2.07	2.17	
	6.75	9830.911' - 21319.55'	5.5	20	RY P-110	Semi-Flush	New	1.26	2.01	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 (6900') 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

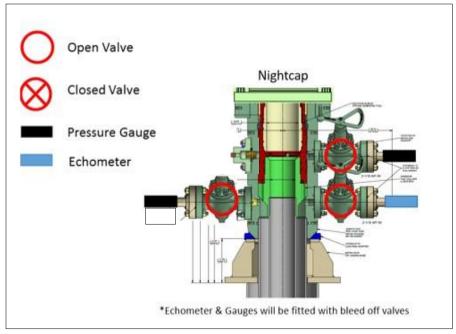
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

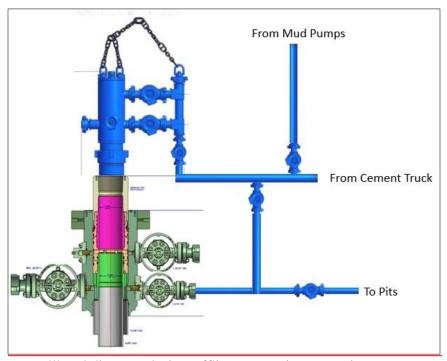
XTO Permian Operating, LLC Offline Cementing Variance Request



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

PENDING

201709

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:

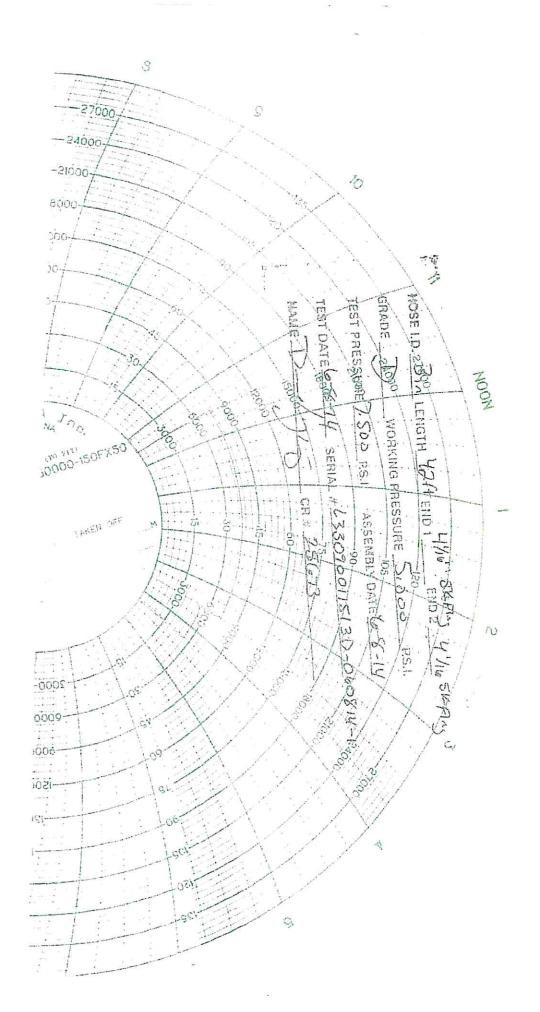
PRODUCTION

6/8/2014

Form PTC - 01 Rev.0 2

-13000-

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<u>Subject:</u> 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	
T al	ole C.4—Initial Pressure Te	esting, Surface BOP Stacks	
	Pressure Test—Low	Pressure Test—	-High Pressure ^{ac}
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 N 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 within when the integrity of a pressure se	n the 21 days, pressure testing is req	uired for pressure-containing ar
For surface offshore operations, the	ne ram BOPs shall be pressure tes land operations, the ram BOPs sha	ated 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

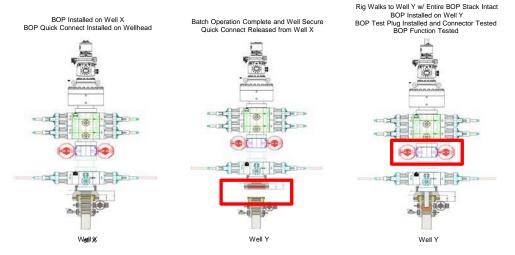
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

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



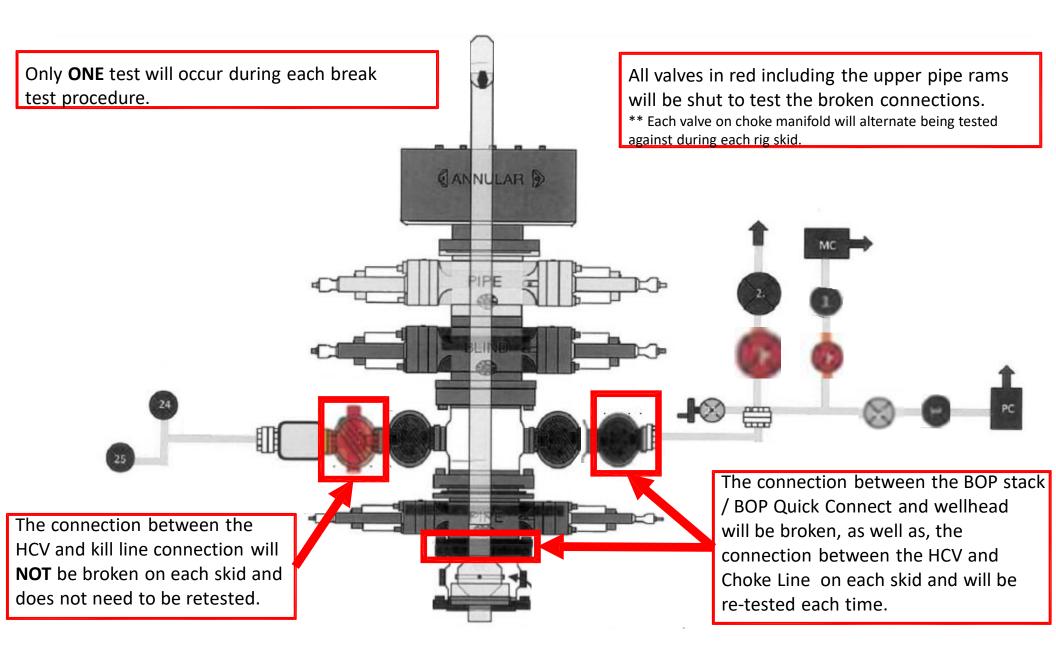
Summary

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 IN DELAWARE BASI	•
DRAWN	VJK	31MAR
APPRV		

angers DRAWING NO. HBE0000479

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Well Plan Report - Poker Lake Unit 28-21 BS 155H

 Measured Depth:
 21319.55 ft

 TVD RKB:
 10092.00 ft

Location

New Mexico East -Cartographic **Reference System: NAD 27** Northing: 403061.50 ft Easting: 671270.90 ft **RKB**: 3380.00 ft **Ground Level:** 3380.00 ft North Reference: Grid **Convergence Angle:** 0.29 Deg

Plan Sections

Poker Lake Unit 28-21 BS 155H

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
2831.96	34.64	145.21	2728.36	- 417.02	289.74	2.00	0.00	2.00
5923.15	34.64	145.21	5271.64	-1859.98	1292.28	0.00	0.00	0.00
7655.11	0.00	0.00	6900.00	-2277.00	1582.02	-2.00	0.00	2.00
10130.91	0.00	0.00	9375.80	-2277.00	1582.02	0.00	0.00	0.00
11255.91	90.00	359.89	10092.00	-1560.80	1580.70	8.00	0.00	8.00 FTP 4
21220.63	90.00	359.89	10092.00	8403.90	1562.40	0.00	0.00	0.00 LTP 4
21319.55	90.00	359.89	10092.00	8502.82	1562.22	0.00	0.00	0.00 BHL 4

Position Uncertainty

Poker Lake Unit 28-21 BS 155H

Measured	TVD Highside	Lateral	Vertical	Magnitude	Semi-	Semi-	Semi-
Weasureu	1 VD Highside	Lateral	vertical	Magnitude	major	minor	minor lool

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	XOM_R2OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.358	0.179	90.000	XOM_R2OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.310	0.000	0.000	0.717	0.538	90.000	XOM_R2OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	0.000	1.075	0.896	90.000	XOM_R2OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	0.000	1.434	1.255	90.000	XOM_R2OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.374	0.000	0.000	1.792	1.613	90.000	XOM_R2OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.406	0.000	0.000	2.151	1.972	90.000	XOM_R2OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.444	0.000	0.000	2.509	2.330	90.000	XOM_R2OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.485	0.000	0.000	2.868	2.689	90.000	XOM_R2OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.531	0.000	0.000	3.226	3.047	90.000	XOM_R2OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.581	0.000	0.000	3.585	3.405	90.000	XOM_R2OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.634	0.000	0.000	3.943	3.764	90.000	XOM_R2OWSG MWD+IFR1+MS
1200.000	2.000	145.209	1199.980	4.226	0.000	4.165	-0.000	2.690	0.000	0.000	4.286	4.106	89.999	XOM_R2OWSG MWD+IFR1+MS
1300.000	4.000	145.209	1299.838	4.549	0.000	4.495	-0.000	2.747	0.000	0.000	4.617	4.435	89.888	XOM_R2OWSG MWD+IFR1+MS
1400.000	6.000	145.209	1399.452	4.871	0.000	4.829	-0.000	2.806	0.000	0.000	4.953	4.768	89.852	XOM_R2OWSG MWD+IFR1+MS
1500.000	8.000	145.209	1498.702	5.192	0.000	5.168	-0.000	2.865	0.000	0.000	5.293	5.106	90.033	XOM_R2OWSG MWD+IFR1+MS
1600.000	10.000	145.209	1597.465	5.511	0.000	5.512	-0.000	2.926	0.000	0.000	5.637	5.448	90.563	XOM_R2OWSG MWD+IFR1+MS
1700.000	12.000	145.209	1695.623	5.828	0.000	5.863	-0.000	2.989	0.000	0.000	5.984	5.796	91.579	XOM_R2OWSG MWD+IFR1+MS
1800.000	14.000	145.209	1793.055	6.144	0.000	6.220	-0.000	3.055	0.000	0.000	6.336	6.149	93.247	XOM_R2OWSG MWD+IFR1+MS

1900.000	16.000	145.209	1889.643	6.459	0.000	6.586	-0.000	3.125	0.000	0.000	6.693	6.507	95.774	XOM_R2OWSG MWD+IFR1+MS
2000.000	18.000	145.209	1985.268	6.773	0.000	6.961	-0.000	3.200	0.000	0.000	7.055	6.872	99.388	XOM_R2OWSG MWD+IFR1+MS
2100.000	20.000	145.209	2079.816	7.086	0.000	7.347	-0.000	3.283	0.000	0.000	7.426	7.241	104.261	XOM_R2OWSG MWD+IFR1+MS
2200.000	22.000	145.209	2173.169	7.400	0.000	7.745	-0.000	3.374	0.000	0.000	7.808	7.614	110.288	XOM_R2OWSG MWD+IFR1+MS
2300.000	24.000	145.209	2265.215	7.715	0.000	8.155	-0.000	3.475	0.000	0.000	8.203	7.989	116.885	XOM_R2OWSG MWD+IFR1+MS
2400.000	26.000	145.209	2355.841	8.031	0.000	8.580	-0.000	3.589	0.000	0.000	8.615	8.363	123.159	XOM_R2OWSG MWD+IFR1+MS
2500.000	28.000	145.209	2444.937	8.348	0.000	9.020	-0.000	3.717	0.000	0.000	9.046	8.736	128.448	XOM_R2OWSG MWD+IFR1+MS
2600.000	30.000	145.209	2532.394	8.669	0.000	9.477	-0.000	3.862	0.000	0.000	9.496	9.109	132.576	XOM_R2OWSG MWD+IFR1+MS
2700.000	32.000	145.209	2618.107	8.992	0.000	9.952	-0.000	4.026	0.000	0.000	9.965	9.481	-44.316	XOM_R2OWSG MWD+IFR1+MS
2800.000	34.000	145.209	2701.970	9.318	0.000	10.446	-0.000	4.211	0.000	0.000	10.455	9.852	-41.998	XOM_R2OWSG MWD+IFR1+MS
2831.958	34.639	145.209	2728.364	9.422	0.000	10.607	-0.000	4.268	0.000	0.000	10.615	9.974	-41.435	XOM_R2OWSG MWD+IFR1+MS
2900.000	34.639	145.209	2784.345	9.730	0.000	10.955	-0.000	4.419	0.000	0.000	10.962	10.223	-40.304	XOM_R2OWSG MWD+IFR1+MS
3000.000	34.639	145.209	2866.620	10.188	0.000	11.479	-0.000	4.656	0.000	0.000	11.483	10.591	-39.039	XOM_R2OWSG MWD+IFR1+MS
3100.000	34.639	145.209	2948.895	10.654	0.000	12.012	-0.000	4.902	0.000	0.000	12.015	10.966	-38.116	XOM_R2OWSG MWD+IFR1+MS
3200.000	34.639	145.209	3031.170	11.126	0.000	12.554	-0.000	5.156	0.000	0.000	12.557	11.345	-37.416	XOM_R2OWSG MWD+IFR1+MS
3300.000	34.639	145.209	3113.444	11.604	0.000	13.104	-0.000	5.417	0.000	0.000	13.105	11.729	-36.869	XOM_R2OWSG MWD+IFR1+MS
3400.000	34.639	145.209	3195.719	12.087	0.000	13.660	-0.000	5.684	0.000	0.000	13.661	12.117	-36.429	XOM_R2OWSG MWD+IFR1+MS
3500.000	34.639	145.209	3277.994	12.575	0.000	14.222	-0.000	5.956	0.000	0.000	14.223	12.509	-36.069	XOM_R2OWSG MWD+IFR1+MS
3600.000	34.639	145.209	3360.269	13.067	0.000	14.789	-0.000	6.233	0.000	0.000	14.790	12.905	-35.769	XOM_R2OWSG MWD+IFR1+MS
3700.000	34.639	145.209	3442.544	13.562	0.000	15.361	-0.000	6.514	0.000	0.000	15.361	13.304	-35.516	XOM_R2OWSG MWD+IFR1+MS

3800.000	34.639	145.209	3524.819	14.060 0.00) 15.937	-0.000	6.799	0.000	0.000	15.937	13.706	-35.299	XOM_R2OWSG MWD+IFR1+MS
3900.000	34.639	145.209	3607.093	14.562 0.00) 16.516	-0.000	7.087	0.000	0.000	16.516	14.111	-35.111	XOM_R2OWSG MWD+IFR1+MS
4000.000	34.639	145.209	3689.368	15.065 0.00	17.099	-0.000	7.378	0.000	0.000	17.099	14.518	-34.947	XOM_R2OWSG MWD+IFR1+MS
4100.000	34.639	145.209	3771.643	15.571 0.00	17.685	-0.000	7.671	0.000	0.000	17.685	14.928	-34.803	XOM_R2OWSG MWD+IFR1+MS
4200.000	34.639	145.209	3853.918	16.080 0.00	18.273	-0.000	7.967	0.000	0.000	18.273	15.340	-34.675	XOM_R2OWSG MWD+IFR1+MS
4300.000	34.639	145.209	3936.193	16.590 0.00	18.864	-0.000	8.265	0.000	0.000	18.864	15.754	-34.560	XOM_R2OWSG MWD+IFR1+MS
4400.000	34.639	145.209	4018.467	17.101 0.00	19.457	-0.000	8.564	0.000	0.000	19.457	16.169	-34.458	XOM_R2OWSG MWD+IFR1+MS
4500.000	34.639	145.209	4100.742	17.615 0.00	20.052	-0.000	8.866	0.000	0.000	20.052	16.587	-34.365	XOM_R2OWSG MWD+IFR1+MS
4600.000	34.639	145.209	4183.017	18.130 0.00	20.649	-0.000	9.169	0.000	0.000	20.649	17.006	-34.281	XOM_R2OWSG MWD+IFR1+MS
4700.000	34.639	145.209	4265.292	18.646 0.00	21.248	-0.000	9.474	0.000	0.000	21.248	17.427	-34.204	XOM_R2OWSG MWD+IFR1+MS
4800.000	34.639	145.209	4347.567	19.163 0.00	21.848	-0.000	9.780	0.000	0.000	21.848	17.849	-34.134	XOM_R2OWSG MWD+IFR1+MS
4900.000	34.639	145.209	4429.842	19.682 0.00	22.449	-0.000	10.087	0.000	0.000	22.450	18.272	-34.070	XOM_R2OWSG MWD+IFR1+MS
5000.000	34.639	145.209	4512.116	20.201 0.00	23.052	-0.000	10.396	0.000	0.000	23.053	18.697	-34.011	XOM_R2OWSG MWD+IFR1+MS
5100.000	34.639	145.209	4594.391	20.722 0.00	23.656	-0.000	10.706	0.000	0.000	23.657	19.123	-33.956	XOM_R2OWSG MWD+IFR1+MS
5200.000	34.639	145.209	4676.666	21.243 0.00	24.262	-0.000	11.017	0.000	0.000	24.263	19.550	-33.905	XOM_R2OWSG MWD+IFR1+MS
5300.000	34.639	145.209	4758.941	21.765 0.00	24.868	-0.000	11.329	0.000	0.000	24.869	19.978	-33.858	XOM_R2OWSG MWD+IFR1+MS
5400.000	34.639	145.209	4841.216	22.288 0.00	25.475	-0.000	11.642	0.000	0.000	25.477	20.407	-33.814	XOM_R2OWSG MWD+IFR1+MS
5500.000	34.639	145.209	4923.490	22.812 0.00	26.083	-0.000	11.955	0.000	0.000	26.085	20.837	-33.773	XOM_R2OWSG MWD+IFR1+MS
5600.000	34.639	145.209	5005.765	23.337 0.00	26.692	-0.000	12.270	0.000	0.000	26.694	21.268	-33.734	XOM_R2OWSG MWD+IFR1+MS
5700.000	34.639	145.209	5088.040	23.862 0.00	27.302	-0.000	12.586	0.000	0.000	27.304	21.700	-33.698	XOM_R2OWSG MWD+IFR1+MS

5800.000	34.639	145.209	5170.315	24.387 0.0	00 27.9 ⁷	12 -0.000	12.903	0.000	0.000	27.914	22.132	-33.664	XOM_R2OWSG MWD+IFR1+MS
5900.000	34.639	145.209	5252.590	24.913 0.0	00 28.52	24 -0.000	13.220	0.000	0.000	28.526	22.565	-33.632	XOM_R2OWSG MWD+IFR1+MS
5923.150	34.639	145.209	5271.636	25.035 0.0	00 28.66	65 -0.000	13.294	0.000	0.000	28.667	22.666	-33.624	XOM_R2OWSG MWD+IFR1+MS
6000.000	33.102	145.209	5335.443	25.507 0.0	00 29.12	29 -0.000	13.535	0.000	0.000	29.131	22.998	-33.601	XOM_R2OWSG MWD+IFR1+MS
6100.000	31.102	145.209	5420.149	26.086 0.0	00 29.7°	16 -0.000	13.835	0.000	0.000	29.718	23.431	-33.570	XOM_R2OWSG MWD+IFR1+MS
6200.000	29.102	145.209	5506.657	26.622 0.0	00 30.28	33 -0.000	14.117	0.000	0.000	30.285	23.862	-33.539	XOM_R2OWSG MWD+IFR1+MS
6300.000	27.102	145.209	5594.864	27.116 0.0	00 30.82	29 -0.000	14.380	0.000	0.000	30.832	24.292	-33.508	XOM_R2OWSG MWD+IFR1+MS
6400.000	25.102	145.209	5684.660	27.566 0.0	00 31.3	54 -0.000	14.625	0.000	0.000	31.357	24.717	-33.477	XOM_R2OWSG MWD+IFR1+MS
6500.000	23.102	145.209	5775.938	27.971 0.0	00 31.8	57 -0.000	14.853	0.000	0.000	31.860	25.138	-33.447	XOM_R2OWSG MWD+IFR1+MS
6600.000	21.102	145.209	5868.584	28.330 0.0	00 32.33	38 -0.000	15.063	0.000	0.000	32.342	25.552	-33.416	XOM_R2OWSG MWD+IFR1+MS
6700.000	19.102	145.209	5962.488	28.643 0.0	00 32.79	98 -0.000	15.257	0.000	0.000	32.801	25.958	-33.387	XOM_R2OWSG MWD+IFR1+MS
6800.000	17.102	145.209	6057.533	28.908 0.0	00 33.20	35 -0.000	15.436	0.000	0.000	33.239	26.354	-33.358	XOM_R2OWSG MWD+IFR1+MS
6900.000	15.102	145.209	6153.605	29.126 0.0	00 33.65	51 -0.000	15.600	0.000	0.000	33.655	26.740	-33.330	XOM_R2OWSG MWD+IFR1+MS
7000.000	13.102	145.209	6250.587	29.296 0.0	00 34.04	45 -0.000	15.751	0.000	0.000	34.049	27.115	-33.304	XOM_R2OWSG MWD+IFR1+MS
7100.000	11.102	145.209	6348.359	29.417 0.0	00 34.4°	17 -0.000	15.890	0.000	0.000	34.422	27.476	-33.278	XOM_R2OWSG MWD+IFR1+MS
7200.000	9.102	145.209	6446.804	29.491 0.0	00 34.76	69 -0.000	16.017	0.000	0.000	34.773	27.824	-33.254	XOM_R2OWSG MWD+IFR1+MS
7300.000	7.102	145.209	6545.801	29.516 0.0	00 35.10	000.0-000	16.135	0.000	0.000	35.104	28.158	-33.232	XOM_R2OWSG MWD+IFR1+MS
7400.000	5.102	145.209	6645.229	29.494 0.0	00 35.4°	10 -0.000	16.244	0.000	0.000	35.415	28.477	-33.212	XOM_R2OWSG MWD+IFR1+MS
7500.000	3.102	145.209	6744.968	29.424 0.0	00 35.70	01 -0.000	16.345	0.000	0.000	35.706	28.780	-33.193	XOM_R2OWSG MWD+IFR1+MS
7600.000	1.102	145.209	6844.895	29.308 0.0	00 35.97	73 -0.000	16.440	0.000	0.000	35.978	29.067	-33.177	XOM_R2OWSG MWD+IFR1+MS

7655.108	0.000	0.000	6900.000	31.440 0.000	34.190	0.000	16.490	0.000	0.000	36.111	29.214	-33.192	XOM_R2OWSG MWD+IFR1+MS
7700.000	0.000	0.000	6944.892	31.552 0.000	34.289	0.000	16.531	0.000	0.000	36.209	29.328	-33.223	XOM_R2OWSG MWD+IFR1+MS
7800.000	0.000	0.000	7044.892	31.802 0.000	34.510	0.000	16.623	0.000	0.000	36.430	29.584	-33.293	XOM_R2OWSG MWD+IFR1+MS
7900.000	0.000	0.000	7144.892	32.055 0.000	34.735	0.000	16.719	0.000	0.000	36.653	29.843	-33.362	XOM_R2OWSG MWD+IFR1+MS
8000.000	0.000	0.000	7244.892	32.310 0.000	34.961	0.000	16.817	0.000	0.000	36.878	30.103	-33.431	XOM_R2OWSG MWD+IFR1+MS
8100.000	0.000	0.000	7344.892	32.567 0.000	35.189	0.000	16.917	0.000	0.000	37.106	30.365	-33.499	XOM_R2OWSG MWD+IFR1+MS
8200.000	0.000	0.000	7444.892	32.825 0.000	35.420	0.000	17.021	0.000	0.000	37.335	30.630	-33.567	XOM_R2OWSG MWD+IFR1+MS
8300.000	0.000	0.000	7544.892	33.086 0.000	35.653	0.000	17.128	0.000	0.000	37.566	30.896	-33.635	XOM_R2OWSG MWD+IFR1+MS
8400.000	0.000	0.000	7644.892	33.348 0.000	35.888	0.000	17.237	0.000	0.000	37.800	31.164	-33.703	XOM_R2OWSG MWD+IFR1+MS
8500.000	0.000	0.000	7744.892	33.612 0.000	36.124	0.000	17.350	0.000	0.000	38.035	31.433	-33.771	XOM_R2OWSG MWD+IFR1+MS
8600.000	0.000	0.000	7844.892	33.878 0.000	36.363	0.000	17.466	0.000	0.000	38.273	31.705	-33.838	XOM_R2OWSG MWD+IFR1+MS
8700.000	0.000	0.000	7944.892	34.145 0.000	36.604	0.000	17.585	0.000	0.000	38.512	31.978	-33.904	XOM_R2OWSG MWD+IFR1+MS
8800.000	0.000	0.000	8044.892	34.414 0.000	36.847	0.000	17.707	0.000	0.000	38.753	32.253	-33.971	XOM_R2OWSG MWD+IFR1+MS
8900.000	0.000	0.000	8144.892	34.685 0.000	37.091	0.000	17.832	0.000	0.000	38.996	32.529	-34.037	XOM_R2OWSG MWD+IFR1+MS
9000.000	0.000	0.000	8244.892	34.958 0.000	37.338	0.000	17.961	0.000	0.000	39.241	32.807	-34.103	XOM_R2OWSG MWD+IFR1+MS
9100.000	0.000	0.000	8344.892	35.231 0.000	37.586	0.000	18.093	0.000	0.000	39.487	33.087	-34.169	XOM_R2OWSG MWD+IFR1+MS
9200.000	0.000	0.000	8444.892	35.507 0.000	37.836	0.000	18.228	0.000	0.000	39.735	33.368	-34.234	XOM_R2OWSG MWD+IFR1+MS
9300.000	0.000	0.000	8544.892	35.784 0.000	38.088	0.000	18.367	0.000	0.000	39.985	33.650	-34.300	XOM_R2OWSG MWD+IFR1+MS
9400.000	0.000	0.000	8644.892	36.062 0.000	38.341	0.000	18.509	0.000	0.000	40.237	33.934	-34.365	XOM_R2OWSG MWD+IFR1+MS
9500.000	0.000	0.000	8744.892	36.342 0.000	38.596	0.000	18.654	0.000	0.000	40.490	34.220	-34.429	XOM_R2OWSG MWD+IFR1+MS

9600.000	0.000	0.000	8844.892	36.623 0.0	00 38.8	353 0.00	00 18.803	0.000	0.000	40.744	34.506	-34.493	XOM_R2OWSG MWD+IFR1+MS
9700.000	0.000	0.000	8944.892	36.905 0.0	00 39.	111 0.00	00 18.955	0.000	0.000	41.001	34.794	-34.558	XOM_R2OWSG MWD+IFR1+MS
9800.000	0.000	0.000	9044.892	37.189 0.0	00 39.3	371 0.00	00 19.111	0.000	0.000	41.259	35.083	-34.621	XOM_R2OWSG MWD+IFR1+MS
9900.000	0.000	0.000	9144.892	37.474 0.0	00 39.6	33 0.0	00 19.271	0.000	0.000	41.518	35.374	-34.685	XOM_R2OWSG MWD+IFR1+MS
10000.000	0.000	0.000	9244.892	37.760 0.0	00 39.8	396 0.00	00 19.433	0.000	0.000	41.779	35.666	-34.748	XOM_R2OWSG MWD+IFR1+MS
10100.000	0.000	0.000	9344.892	38.048 0.0	00 40.1	60 0.0	00 19.600	0.000	0.000	42.041	35.958	-34.811	XOM_R2OWSG MWD+IFR1+MS
10130.911	0.000	0.000	9375.803	38.137 0.0	00 40.2	242 0.00	00 19.652	2 0.000	0.000	42.122	36.049	-34.831	XOM_R2OWSG MWD+IFR1+MS
10200.000	5.527	359.895	9444.785	37.337 0.0	00 40.4	30 0.0	00 19.767	0.000	0.000	42.299	36.240	-34.859	XOM_R2OWSG MWD+IFR1+MS
10300.000	13.527	359.895	9543.326	35.701 0.0	00 40.6	664 0.00	00 19.929	0.000	0.000	42.534	36.471	-34.844	XOM_R2OWSG MWD+IFR1+MS
10400.000	21.527	359.895	9638.606	33.548 0.0	00 40.8	370 0.00	00 20.097	0.000	0.000	42.740	36.648	-34.754	XOM_R2OWSG MWD+IFR1+MS
10500.000	29.527	359.895	9728.770	30.985 0.0	00 41.0)47 0.0	00 20.284	0.000	0.000	42.916	36.771	-34.581	XOM_R2OWSG MWD+IFR1+MS
10600.000	37.527	359.895	9812.065	28.162 0.0	00 41.′	94 0.0	00 20.500	0.000	0.000	43.058	36.846	-34.333	XOM_R2OWSG MWD+IFR1+MS
10700.000	45.527	359.895	9886.869	25.290 0.0	00 41.3	312 0.00	00 20.757	0.000	0.000	43.167	36.880	-34.024	XOM_R2OWSG MWD+IFR1+MS
10800.000	53.527	359.895	9951.725	22.665 0.0	00 41.4	04 0.0	00 21.061	0.000	0.000	43.244	36.885	-33.675	XOM_R2OWSG MWD+IFR1+MS
10900.000	61.527	359.895	10005.371	20.671 0.0	00 41.4	70 0.0	00 21.418	0.000	0.000	43.291	36.871	-33.309	XOM_R2OWSG MWD+IFR1+MS
11000.000	69.527	359.895	10046.764	19.726 0.0	00 41.5	513 0.00	00 21.827	0.000	0.000	43.308	36.852	-32.953	XOM_R2OWSG MWD+IFR1+MS
11100.000	77.527	359.895	10075.097	20.098 0.0	00 41.5	36 0.0	00 22.284	0.000	0.000	43.301	36.839	-32.638	XOM_R2OWSG MWD+IFR1+MS
11200.000	85.527	359.895	10089.819	21.727 0.0	00 41.5	38 0.0	00 22.778	0.000	0.000	43.271	36.844	-32.399	XOM_R2OWSG MWD+IFR1+MS
11255.911	90.000	359.895	10092.000	23.067 0.0	00 41.5	30 0.0	00 23.067	0.000	0.000	43.246	36.858	-32.322	XOM_R2OWSG MWD+IFR1+MS
11300.000	90.000	359.895	10092.000	23.298 0.0	00 41.5	523 0.00	00 23.298	0.000	0.000	43.224	36.873	-32.268	XOM_R2OWSG MWD+IFR1+MS

11400.000	90.000	359.895	10092.000	23.834	0.000	41.523	0.000	23.834	0.000	0.000	43.186	36.913	- 32.072	XOM_R2OWSG MWD+IFR1+MS
11500.000	90.000	359.895	10092.000	24.382	0.000	41.542	0.000	24.382	0.000	0.000	43.162	36.958	-31.794	XOM_R2OWSG MWD+IFR1+MS
11600.000	90.000	359.895	10092.000	24.944	0.000	41.580	0.000	24.944	0.000	0.000	43.151	37.009	-31.431	XOM_R2OWSG MWD+IFR1+MS
11700.000	90.000	359.895	10092.000	25.517	0.000	41.637	0.000	25.517	0.000	0.000	43.154	37.065	-30.984	XOM_R2OWSG MWD+IFR1+MS
11800.000	90.000	359.895	10092.000	26.101	0.000	41.711	0.000	26.101	0.000	0.000	43.171	37.127	-30.452	XOM_R2OWSG MWD+IFR1+MS
11900.000	90.000	359.895	10092.000	26.696	0.000	41.805	0.000	26.696	0.000	0.000	43.203	37.192	-29.836	XOM_R2OWSG MWD+IFR1+MS
12000.000	90.000	359.895	10092.000	27.300	0.000	41.916	0.000	27.300	0.000	0.000	43.250	37.262	-29.139	XOM_R2OWSG MWD+IFR1+MS
12100.000	90.000	359.895	10092.000	27.913	0.000	42.046	0.000	27.913	0.000	0.000	43.312	37.334	-28.365	XOM_R2OWSG MWD+IFR1+MS
12200.000	90.000	359.895	10092.000	28.534	0.000	42.194	0.000	28.534	0.000	0.000	43.391	37.409	-27.518	XOM_R2OWSG MWD+IFR1+MS
12300.000	90.000	359.895	10092.000	29.164	0.000	42.359	0.000	29.164	0.000	0.000	43.486	37.486	-26.605	XOM_R2OWSG MWD+IFR1+MS
12400.000	90.000	359.895	10092.000	29.800	0.000	42.543	0.000	29.800	0.000	0.000	43.599	37.563	-25.633	XOM_R2OWSG MWD+IFR1+MS
12500.000	90.000	359.895	10092.000	30.444	0.000	42.743	0.000	30.444	0.000	0.000	43.729	37.641	-24.613	XOM_R2OWSG MWD+IFR1+MS
12600.000	90.000	359.895	10092.000	31.094	0.000	42.961	0.000	31.094	0.000	0.000	43.877	37.719	-23.553	XOM_R2OWSG MWD+IFR1+MS
12700.000	90.000	359.895	10092.000	31.750	0.000	43.195	0.000	31.750	0.000	0.000	44.044	37.795	-22.465	XOM_R2OWSG MWD+IFR1+MS
12800.000	90.000	359.895	10092.000	32.412	0.000	43.446	0.000	32.412	0.000	0.000	44.229	37.869	-21.360	XOM_R2OWSG MWD+IFR1+MS
12900.000	90.000	359.895	10092.000	33.080	0.000	43.714	0.000	33.080	0.000	0.000	44.433	37.942	-20.249	XOM_R2OWSG MWD+IFR1+MS
13000.000	90.000	359.895	10092.000	33.752	0.000	43.997	0.000	33.752	0.000	0.000	44.656	38.012	-19.141	XOM_R2OWSG MWD+IFR1+MS
13100.000	90.000	359.895	10092.000	34.429	0.000	44.296	0.000	34.429	0.000	0.000	44.898	38.079	-18.048	XOM_R2OWSG MWD+IFR1+MS
13200.000	90.000	359.895	10092.000	35.111	0.000	44.611	0.000	35.111	0.000	0.000	45.159	38.144	-16.977	XOM_R2OWSG MWD+IFR1+MS
13300.000	90.000	359.895	10092.000	35.797	0.000	44.941	0.000	35.797	0.000	0.000	45.439	38.205	-15.936	XOM_R2OWSG MWD+IFR1+MS

13400.000	90.000	359.895	10092.000	36.486	0.000	45.285	0.000	36.486	0.000	0.000	45.736	38.263	-14.930	XOM_R2OWSG MWD+IFR1+MS
13500.000	90.000	359.895	10092.000	37.180	0.000	45.644	0.000	37.180	0.000	0.000	46.052	38.319	-13.965	XOM_R2OWSG MWD+IFR1+MS
13600.000	90.000	359.895	10092.000	37.877	0.000	46.016	0.000	37.877	0.000	0.000	46.385	38.371	-13.044	XOM_R2OWSG MWD+IFR1+MS
13700.000	90.000	359.895	10092.000	38.578	0.000	46.403	0.000	38.578	0.000	0.000	46.735	38.420	-12.168	XOM_R2OWSG MWD+IFR1+MS
13800.000	90.000	359.895	10092.000	39.281	0.000	46.803	0.000	39.281	0.000	0.000	47.102	38.467	-11.339	XOM_R2OWSG MWD+IFR1+MS
13900.000	90.000	359.895	10092.000	39.988	0.000	47.216	0.000	39.988	0.000	0.000	47.484	38.511	-10.557	XOM_R2OWSG MWD+IFR1+MS
14000.000	90.000	359.895	10092.000	40.698	0.000	47.642	0.000	40.698	0.000	0.000	47.882	38.553	-9.822	XOM_R2OWSG MWD+IFR1+MS
14100.000	90.000	359.895	10092.000	41.410	0.000	48.080	0.000	41.410	0.000	0.000	48.295	38.593	-9.132	XOM_R2OWSG MWD+IFR1+MS
14200.000	90.000	359.895	10092.000	42.125	0.000	48.530	0.000	42.125	0.000	0.000	48.722	38.631	-8.485	XOM_R2OWSG MWD+IFR1+MS
14300.000	90.000	359.895	10092.000	42.842	0.000	48.991	0.000	42.842	0.000	0.000	49.163	38.667	-7.880	XOM_R2OWSG MWD+IFR1+MS
14400.000	90.000	359.895	10092.000	43.562	0.000	49.465	0.000	43.562	0.000	0.000	49.618	38.701	-7.316	XOM_R2OWSG MWD+IFR1+MS
14500.000	90.000	359.895	10092.000	44.284	0.000	49.949	0.000	44.284	0.000	0.000	50.085	38.734	-6.788	XOM_R2OWSG MWD+IFR1+MS
14600.000	90.000	359.895	10092.000	45.008	0.000	50.444	0.000	45.008	0.000	0.000	50.565	38.766	-6.297	XOM_R2OWSG MWD+IFR1+MS
14700.000	90.000	359.895	10092.000	45.734	0.000	50.949	0.000	45.734	0.000	0.000	51.057	38.797	-5.838	XOM_R2OWSG MWD+IFR1+MS
14800.000	90.000	359.895	10092.000	46.462	0.000	51.465	0.000	46.462	0.000	0.000	51.560	38.827	-5.411	XOM_R2OWSG MWD+IFR1+MS
14900.000	90.000	359.895	10092.000	47.191	0.000	51.990	0.000	47.191	0.000	0.000	52.075	38.856	-5.013	XOM_R2OWSG MWD+IFR1+MS
15000.000	90.000	359.895	10092.000	47.923	0.000	52.525	0.000	47.923	0.000	0.000	52.599	38.885	-4.642	XOM_R2OWSG MWD+IFR1+MS
15100.000	90.000	359.895	10092.000	48.656	0.000	53.069	0.000	48.656	0.000	0.000	53.135	38.912	-4.296	XOM_R2OWSG MWD+IFR1+MS
15200.000	90.000	359.895	10092.000	49.391	0.000	53.622	0.000	49.391	0.000	0.000	53.680	38.940	-3.973	XOM_R2OWSG MWD+IFR1+MS
15300.000	90.000	359.895	10092.000	50.127	0.000	54.184	0.000	50.127	0.000	0.000	54.234	38.967	- 3.672	XOM_R2OWSG MWD+IFR1+MS

15400.000	90.000	359.895	10092.000	50.865	0.000	54.754	0.000	50.865	0.000	0.000	54.798	38.994	-3.392	XOM_R2OWSG MWD+IFR1+MS
15500.000	90.000	359.895	10092.000	51.604	0.000	55.332	0.000	51.604	0.000	0.000	55.371	39.020	-3.130	XOM_R2OWSG MWD+IFR1+MS
15600.000	90.000	359.895	10092.000	52.344	0.000	55.918	0.000	52.344	0.000	0.000	55.952	39.046	-2.885	XOM_R2OWSG MWD+IFR1+MS
15700.000	90.000	359.895	10092.000	53.086	0.000	56.512	0.000	53.086	0.000	0.000	56.541	39.073	-2.657	XOM_R2OWSG MWD+IFR1+MS
15800.000	90.000	359.895	10092.000	53.829	0.000	57.113	0.000	53.829	0.000	0.000	57.138	39.099	-2.443	XOM_R2OWSG MWD+IFR1+MS
15900.000	90.000	359.895	10092.000	54.573	0.000	57.721	0.000	54.573	0.000	0.000	57.743	39.125	-2.243	XOM_R2OWSG MWD+IFR1+MS
16000.000	90.000	359.895	10092.000	55.318	0.000	58.337	0.000	55.318	0.000	0.000	58.355	39.152	-2.056	XOM_R2OWSG MWD+IFR1+MS
16100.000	90.000	359.895	10092.000	56.064	0.000	58.959	0.000	56.064	0.000	0.000	58.975	39.178	-1.881	XOM_R2OWSG MWD+IFR1+MS
16200.000	90.000	359.895	10092.000	56.811	0.000	59.587	0.000	56.811	0.000	0.000	59.601	39.205	-1.717	XOM_R2OWSG MWD+IFR1+MS
16300.000	90.000	359.895	10092.000	57.560	0.000	60.222	0.000	57.560	0.000	0.000	60.234	39.231	-1.564	XOM_R2OWSG MWD+IFR1+MS
16400.000	90.000	359.895	10092.000	58.309	0.000	60.863	0.000	58.309	0.000	0.000	60.873	39.258	-1.420	XOM_R2OWSG MWD+IFR1+MS
16500.000	90.000	359.895	10092.000	59.059	0.000	61.510	0.000	59.059	0.000	0.000	61.518	39.286	-1.284	XOM_R2OWSG MWD+IFR1+MS
16600.000	90.000	359.895	10092.000	59.810	0.000	62.163	0.000	59.810	0.000	0.000	62.169	39.313	-1.157	XOM_R2OWSG MWD+IFR1+MS
16700.000	90.000	359.895	10092.000	60.562	0.000	62.821	0.000	60.562	0.000	0.000	62.826	39.341	-1.038	XOM_R2OWSG MWD+IFR1+MS
16800.000	90.000	359.895	10092.000	61.315	0.000	63.485	0.000	61.315	0.000	0.000	63.489	39.369	-0.926	XOM_R2OWSG MWD+IFR1+MS
16900.000	90.000	359.895	10092.000	62.069	0.000	64.154	0.000	62.069	0.000	0.000	64.157	39.398	-0.821	XOM_R2OWSG MWD+IFR1+MS
17000.000	90.000	359.895	10092.000	62.823	0.000	64.828	0.000	62.823	0.000	0.000	64.830	39.427	-0.722	XOM_R2OWSG MWD+IFR1+MS
17100.000	90.000	359.895	10092.000	63.578	0.000	65.507	0.000	63.578	0.000	0.000	65.509	39.456	-0.629	XOM_R2OWSG MWD+IFR1+MS
17200.000	90.000	359.895	10092.000	64.334	0.000	66.191	0.000	64.334	0.000	0.000	66.192	39.486	-0.541	XOM_R2OWSG MWD+IFR1+MS
17300.000	90.000	359.895	10092.000	65.090	0.000	66.879	0.000	65.090	0.000	0.000	66.880	39.516	-0.458	XOM_R2OWSG MWD+IFR1+MS

17400.000	90.000	359.895	10092.000	65.847	0.000	67.572	0.000	65.847	0.000	0.000	67.572	39.546	-0.380	XOM_R2OWSG MWD+IFR1+MS
17500.000	90.000	359.895	10092.000	66.605	0.000	68.269	0.000	66.605	0.000	0.000	68.269	39.577	-0.307	XOM_R2OWSG MWD+IFR1+MS
17600.000	90.000	359.895	10092.000	67.363	0.000	68.970	0.000	67.363	0.000	0.000	68.970	39.608	-0.238	XOM_R2OWSG MWD+IFR1+MS
17700.000	90.000	359.895	10092.000	68.122	0.000	69.675	0.000	68.122	0.000	0.000	69.675	39.640	-0.172	XOM_R2OWSG MWD+IFR1+MS
17800.000	90.000	359.895	10092.000	68.882	0.000	70.385	0.000	68.882	0.000	0.000	70.385	39.672	-0.111	XOM_R2OWSG MWD+IFR1+MS
17900.000	90.000	359.895	10092.000	69.642	0.000	71.098	0.000	69.642	0.000	0.000	71.098	39.705	-0.053	XOM_R2OWSG MWD+IFR1+MS
18000.000	90.000	359.895	10092.000	70.403	0.000	71.815	0.000	70.403	0.000	0.000	71.815	39.738	0.002	XOM_R2OWSG MWD+IFR1+MS
18100.000	90.000	359.895	10092.000	71.164	0.000	72.535	0.000	71.164	0.000	0.000	72.535	39.772	0.054	XOM_R2OWSG MWD+IFR1+MS
18200.000	90.000	359.895	10092.000	71.925	0.000	73.259	0.000	71.925	0.000	0.000	73.259	39.806	0.103	XOM_R2OWSG MWD+IFR1+MS
18300.000	90.000	359.895	10092.000	72.688	0.000	73.986	0.000	72.688	0.000	0.000	73.987	39.840	0.149	XOM_R2OWSG MWD+IFR1+MS
18400.000	90.000	359.895	10092.000	73.450	0.000	74.717	0.000	73.450	0.000	0.000	74.718	39.876	0.193	XOM_R2OWSG MWD+IFR1+MS
18500.000	90.000	359.895	10092.000	74.213	0.000	75.451	0.000	74.213	0.000	0.000	75.452	39.911	0.235	XOM_R2OWSG MWD+IFR1+MS
18600.000	90.000	359.895	10092.000	74.977	0.000	76.188	0.000	74.977	0.000	0.000	76.189	39.947	0.274	XOM_R2OWSG MWD+IFR1+MS
18700.000	90.000	359.895	10092.000	75.741	0.000	76.928	0.000	75.741	0.000	0.000	76.930	39.984	0.311	XOM_R2OWSG MWD+IFR1+MS
18800.000	90.000	359.895	10092.000	76.505	0.000	77.671	0.000	76.505	0.000	0.000	77.673	40.021	0.346	XOM_R2OWSG MWD+IFR1+MS
18900.000	90.000	359.895	10092.000	77.270	0.000	78.417	0.000	77.270	0.000	0.000	78.419	40.058	0.379	XOM_R2OWSG MWD+IFR1+MS
19000.000	90.000	359.895	10092.000	78.035	0.000	79.166	0.000	78.035	0.000	0.000	79.168	40.096	0.410	XOM_R2OWSG MWD+IFR1+MS
19100.000	90.000	359.895	10092.000	78.801	0.000	79.917	0.000	78.801	0.000	0.000	79.920	40.135	0.440	XOM_R2OWSG MWD+IFR1+MS
19200.000	90.000	359.895	10092.000	79.567	0.000	80.671	0.000	79.567	0.000	0.000	80.674	40.174	0.468	XOM_R2OWSG MWD+IFR1+MS
19300.000	90.000	359.895	10092.000	80.333	0.000	81.427	0.000	80.333	0.000	0.000	81.431	40.214	0.495	XOM_R2OWSG MWD+IFR1+MS

19400.000	90.000	359.895	10092.000	81.100	0.000	82.186	0.000	81.100	0.000	0.000	82.190	40.254	0.520	XOM_R2OWSG MWD+IFR1+MS
19500.000	90.000	359.895	10092.000	81.867	0.000	82.948	0.000	81.867	0.000	0.000	82.952	40.294	0.544	XOM_R2OWSG MWD+IFR1+MS
19600.000	90.000	359.895	10092.000	82.634	0.000	83.711	0.000	82.634	0.000	0.000	83.716	40.335	0.566	XOM_R2OWSG MWD+IFR1+MS
19700.000	90.000	359.895	10092.000	83.402	0.000	84.477	0.000	83.402	0.000	0.000	84.482	40.377	0.588	XOM_R2OWSG MWD+IFR1+MS
19800.000	90.000	359.895	10092.000	84.170	0.000	85.246	0.000	84.170	0.000	0.000	85.251	40.419	0.608	XOM_R2OWSG MWD+IFR1+MS
19900.000	90.000	359.895	10092.000	84.938	0.000	86.016	0.000	84.938	0.000	0.000	86.021	40.462	0.627	XOM_R2OWSG MWD+IFR1+MS
20000.000	90.000	359.895	10092.000	85.707	0.000	86.788	0.000	85.707	0.000	0.000	86.794	40.505	0.645	XOM_R2OWSG MWD+IFR1+MS
20100.000	90.000	359.895	10092.000	86.476	0.000	87.563	0.000	86.476	0.000	0.000	87.569	40.549	0.662	XOM_R2OWSG MWD+IFR1+MS
20200.000	90.000	359.895	10092.000	87.245	0.000	88.339	0.000	87.245	0.000	0.000	88.346	40.593	0.678	XOM_R2OWSG MWD+IFR1+MS
20300.000	90.000	359.895	10092.000	88.015	0.000	89.118	0.000	88.015	0.000	0.000	89.125	40.637	0.694	XOM_R2OWSG MWD+IFR1+MS
20400.000	90.000	359.895	10092.000	88.784	0.000	89.898	0.000	88.784	0.000	0.000	89.905	40.683	0.708	XOM_R2OWSG MWD+IFR1+MS
20500.000	90.000	359.895	10092.000	89.554	0.000	90.680	0.000	89.554	0.000	0.000	90.688	40.728	0.722	XOM_R2OWSG MWD+IFR1+MS
20600.000	90.000	359.895	10092.000	90.325	0.000	91.464	0.000	90.325	0.000	0.000	91.472	40.775	0.735	XOM_R2OWSG MWD+IFR1+MS
20700.000	90.000	359.895	10092.000	91.095	0.000	92.250	0.000	91.095	0.000	0.000	92.258	40.821	0.747	XOM_R2OWSG MWD+IFR1+MS
20800.000	90.000	359.895	10092.000	91.866	0.000	93.037	0.000	91.866	0.000	0.000	93.046	40.869	0.758	XOM_R2OWSG MWD+IFR1+MS
20900.000	90.000	359.895	10092.000	92.637	0.000	93.827	0.000	92.637	0.000	0.000	93.835	40.916	0.769	XOM_R2OWSG MWD+IFR1+MS
21000.000	90.000	359.895	10092.000	93.408	0.000	94.617	0.000	93.408	0.000	0.000	94.626	40.965	0.780	XOM_R2OWSG MWD+IFR1+MS
21100.000	90.000	359.895	10092.000	94.179	0.000	95.410	0.000	94.179	0.000	0.000	95.419	41.013	0.789	XOM_R2OWSG MWD+IFR1+MS
21200.000	90.000	359.895	10092.000	94.951	0.000	96.203	0.000	94.951	0.000	0.000	96.213	41.062	0.799	XOM_R2OWSG MWD+IFR1+MS
21220.628	90.000	359.895	10092.000	95.110	0.000	96.367	0.000	95.110	0.000	0.000	96.377	41.073	0.800	XOM_R2OWSG MWD+IFR1+MS

21300.000	90.000 359.895 10092.000	95.723 0.000 96.998 0.000 95.72	3 0.000 0.000	97.008 41.11	2 0.807 XOM_R2OWSG MWD+IFR1+MS
21319.550	90.000 359.895 10092.000	95.874 0.000 97.153 0.000 95.87	4 0.000 0.000	97.163 41.12	2 0.809 XOM_R2OWSG MWD+JFR1+MS

Plan Targets	Poker Lake Unit 28-21 BS 155H			
	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 4	11255.90	401500.70	672851.60	6712.00 RECTANGLE
LTP 4	21220.63	411465.40	672833.30	6712.00 RECTANGLE
BHL 4	21319.98	411564.40	672832.70	6712.00 RECTANGLE

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy Incorporated
WELL NAME & NO.: Poker Lake Unit 29-20 BS 121H
LOCATION: Sec 29-25S-31E-NMP
COUNTY: Eddy County, New Mexico

COA

H_2S	No	C 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	▼ Cont. Squeeze	EchoMeter	□ DV Tool
Special Req	☑ Break Testing	☐ Water Disposal	□ 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 100 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

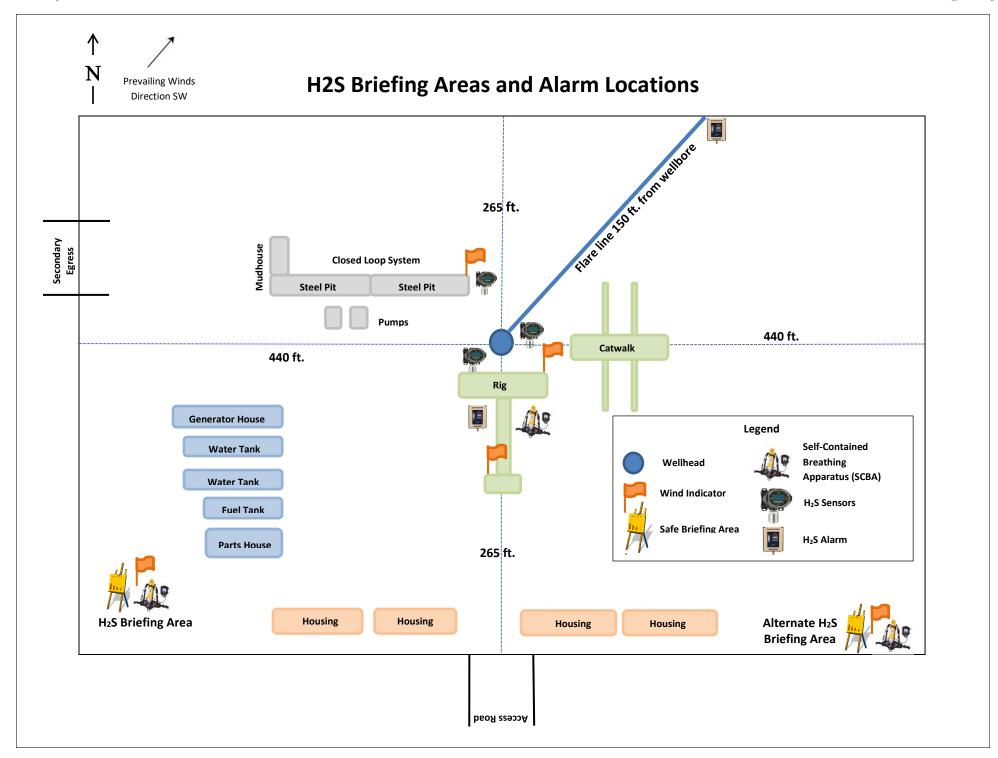
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

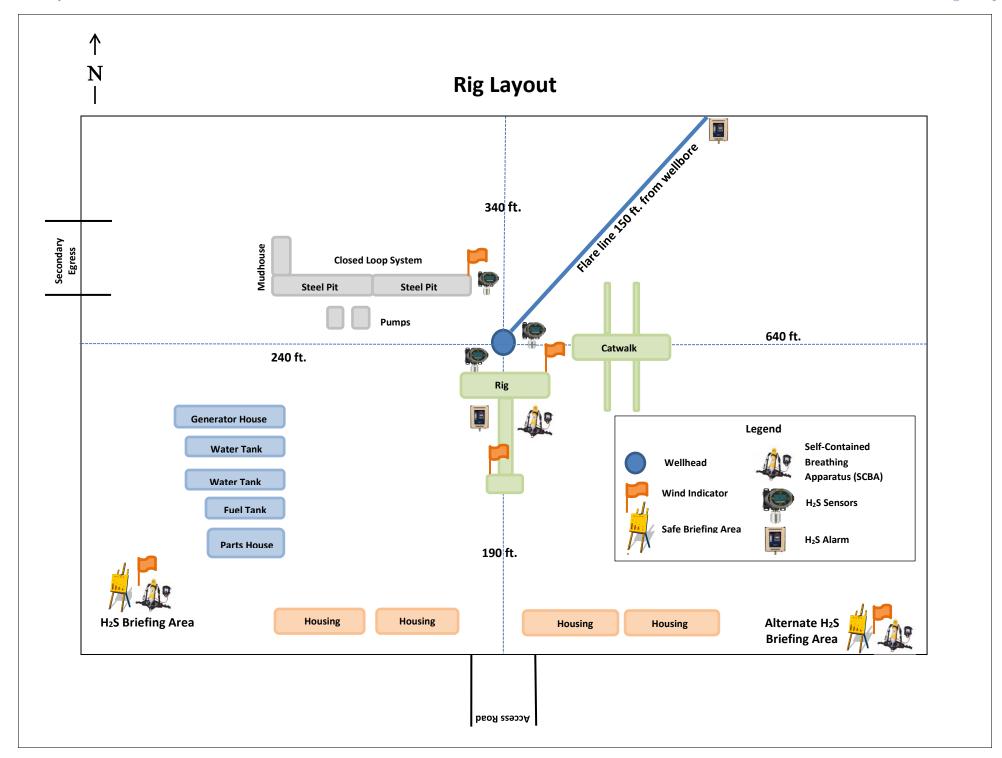
Contacting Authorities

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 PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 155H

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 PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28-21 BS Well Number: 155H

Section 9 - Well Site

Well Site Layout Diagram:

Poker_Lake_Unit_28_21_BS_155H_Well_20240206154015.pdf

PLU_28_21_BS_155H_RL_20240503150716.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: PLU 28-21 BS

Multiple Well Pad Number: C

Recontouring

PLU_28_21_BS_IR1_20240503121740.pdf

PLU 28 21 BS IR2 20240503121740.pdf PLU_28_21_BS_IR3_20240503121741.pdf

PLU_28_21_BS_IR4_20240503121741.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):

Well pad interim reclamation (acres): 0 Well pad long term disturbance

(acres): 0

Road interim reclamation (acres): 0 Road long term disturbance (acres): 0

Powerline proposed disturbance

(acres):

Pipeline proposed disturbance

(acres):

Other proposed disturbance (acres):

Powerline interim reclamation (acres): Powerline long term disturbance

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 0

(acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 0 Total interim reclamation: 0 Total long term disturbance: 0

Disturbance Comments:

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 347822

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
	Action Number:
MIDLAND, TX 79707	347822
	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