Form 3160-3 (June 2015) UNITED STATE	C			FORM A OMB No Expires: Ja	o. 1004-(0137
DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR			5. Lease Serial No. NMNM17225A		
APPLICATION FOR PERMIT TO D	RILL OR	REENTER		6. If Indian, Allotee	or Tribe	Name
	EENTER			7. If Unit or CA Agr	cement,	Name and No.
	ther ingle Zone	✓ Multiple Zone		8. Lease Name and V SHADY PINES 24		
				121H		
2. Name of Operator XTO ENERGY INCORPORATED				9. API Well No. 30-015-4	5001	2
3a. Address 222777 SPRINGSWOODS VILLAGE PKWY, SPRING, TX		lo. <i>(include area cod</i> 2800	'e)	10. Field and Pool, of PURPLE SAGE; W	•	•
4. Location of Well (Report location clearly and in accordance of At surface SWSE / 366 FSL / 2498 FEL / LAT 32.0211				11. Sec., T. R. M. or SEC 24/T26S/R298		I Survey or Area
At proposed prod. zone SWNE / 200 FSL / 2430 FEL / L		61 / LONG -103.93	7033			,
14. Distance in miles and direction from nearest town or post off	ice*			12. County or Parish EDDY	i.	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No of ac	eres in lease	17. Spacin 480.0	ng Unit dedicated to th	is well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 0 feet	19. Propose 10498 feet	d Depth / 17639 feet	20. BLM/ FED:	BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2976 feet	22. Approxi	mate date work will	start*	23. Estimated duration 45 days	on	
2010 1000	24. Attac			45 days		
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No. 1	, and the H	lydraulic Fracturing ru	ıle per 43	3 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office 		Item 20 above). 5. Operator certific	ation.	s unless covered by an		•
25. Signature (Electronic Submission)	76.09203803	(Printed/Typed) IE EVANS / Ph: (4	32) 620 6		Date 10/19/2	1021
Title Regulatory Analyst	OAGO	IL LVANO / I II. (4	020-0	700	10/19/2	.021
Approved by (Signature) (Electronic Submission)		(Printed/Typed) LAYTON / Ph: (57	75) 234-59	the same of the sa	Date 09/07/2	022
Title Assistant Field Manager Lands & Minerals	Office	ad Field Office				
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.			ose rights i	n the subject lease wh	ich woul	ld entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of	nake it a crime or representati	for any person know ons as to any matter	vingly and within its j	willfully to make to an	ıy depart	tment or agency
		TH CONDIT			truction	ns on page 2)
(Commission on page 2)	val Date	09/07/2022		(IIIS)	a uctioi	is on page 2)

| District| 1 | 1625 N. Jiranch | Dr., Hobbs., | NM188240 | 1625 N. Jiranch | Dr., Hobbs., | NM188240 | District| 11 | R11 | S. Jiranch | Jiranch

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

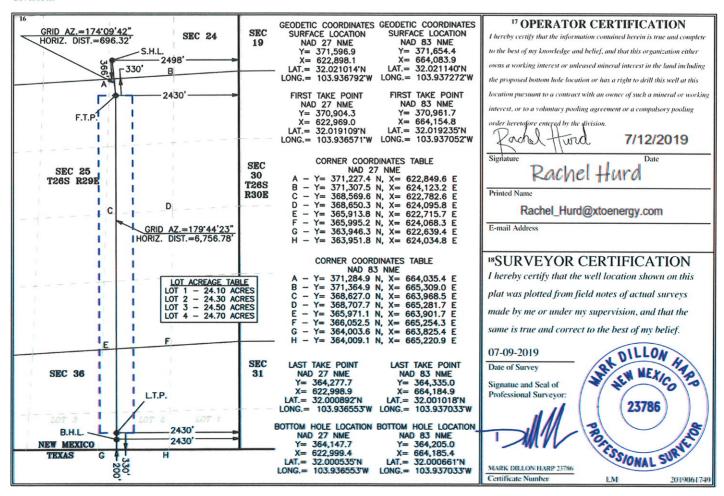
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

■ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

		, v)C/11/10	IN MIND M	KEAGE DEDIC	ATIONILA	11				
¹ API Number 30-015- 50012 98220 Pool Code Purple Sage; Wolfcamp Pool Name												
4 Property (Code				5 Proper	ty Name			6	Well Number		
333301				SHADY PINES 24-36								
7 OGRID	No.			8 Operator Name 9 Elevation								
00538	0			XTO ENERGY, INC. 2,99								
¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	the North/South line	Feet from the	East	/West line	County		
0	24	26 S	29 E		366	SOUTH	2,498	EA	ST	EDDY		
			"Bo	ttom Ho	le Location	If Different From	n Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	he North/South line	Feet from the	East	/West line	County		
2	36	26 S	29 E	29 E 200 SOUTH 2,430 EAST								
12 Dedicated Acres 480	¹³ Joint o	r Infill 14	Consolidation	Code 15 Or	rder No.			L				

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.



I. Operator: XTO Energy Inc.

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

OGRID: 005380 **Date:** 09/20/2022

II. Type: 🖾 Original 🗆 Al	menament au	e to □ 19.13.27.9.	.D(0)(a) NMAC □ 19.13	5.27.9.D(0)(0) NI	/IAC ☐ Other.	
If Other, please describe:						
III. Well(s): Provide the fol be recompleted from a single	_			r set of wells pro	posed to be drille	ed or proposed to
Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated
				Oil BBL/D	Gas MCF/D	Produced
						Water BBL/D
Shady Pines 24-36 71H		O-24-26S-29E	426'FSL & 2498'FEL	2000	3200	3500
Shady Pines 24-36 131H		O-24-26S-29E	396'FSL & 2498'FEL	2000	3200	3500
Shady Pines 24-36 121H		O-24-26S-29E	366'FSL & 2498'FEL	2000	3200	3500

IV. Central Delivery Point Name: Ross Draw 25 Central Tank Battery [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Shady Pines 24-36 71H		TBD	TBD	TBD	TBD	TBD
Shady Pines 24-36 131H		TBD	TBD	TBD	TBD	TBD
Shady Pines 24-36 121H		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. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. I	Line Capac	c ity. The natura	l gas	gathering	system [□ will	□ will	not ha	ve capaci	ty to	gather	100%	of the	anticipate	d natura	l gas
produ	ection volun	ne from the wel	l prio	r to the da	ite of firs	t produ	ction.									

XIII. I	Line Pressure.	Operator	\square does \square	does not	anticipate	that its existing	ng well((s) conne	cted to	the same	segment	, or portio	n, of th	(
natural	l gas gathering	system(s)	described a	bove wil	l continue	to meet antic	ipated in	ncreases	in line	pressure	caused by	the new	well(s)	

$\overline{}$	1 4 4 4 1 1	, ,	1 .		1	•		41	. 1	1.	
	L Affach (h	nerator's	nlan to	manage	production	in rec	nonce to	the	increased	line	nreccure
_	I Attach O	perator s	pran to	manage	production	111 103	ponse to	uic	mercasea	IIIIC	pressure

XIV. Confidentiality: $oxdot$ Operator a	sserts confidentiality pursua	ant to Section 71-2-8	8 NMSA 1978 for the	e information provided i	n
Section 2 as provided in Paragraph (2)	of Subsection D of 19.15.27	9.9 NMAC, and attacl	hes a full description of	of the specific informatio	n
for which confidentiality is asserted as	nd the basis for such assertion	n.			

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: Stephanie Rabadue
Printed Name: Stephanie Rabadue
Title: Regulatory Supervisor
E-mail Address: <u>Stephanie.rabadue@exxonmobil.com</u>
Date: 09/20/2022
Phone: 432-620-6714
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

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

VII. Operational Practices:

1. Subsection B.

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

2. Subsection C.

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

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

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

3. Subsection D.

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

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

4. Subsection E.

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

5. Subsection F.

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

VIII. Best Management Practices:

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



APD ID: 10400076216

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

Drilling Plan Data Report

Well Name: SHADY PINES 24-36

Submission Date: 10/19/2021

Highlighted data reflects the most recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Number: 121H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
5835510	QUATERNARY	2976	0	Ö	ALLUVĬÚM	USEABLE WATER	Y
5835511	RUSTLER	2490	486	486	ANHYDRITE, SANDSTONE	USEABLE WATER	N
5835512	TOP SALT	1647	1329	1329	SALT	NONE	N
5835622	BASE OF SALT	16	2960	2960	SALT	NONE	N
5835513	DELAWARE	-159	3135	3135	ANHYDRITE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
5835514	BONE SPRING	-3910	6886	6886	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
5835515	WOLFCAMP	-7112	10088	10088	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 10498

Equipment: Once the permanent WH is installed on the 9-5/8" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8 minimum 5M Hydril and a 13-5/8 minimum 5M 3-Ram BOP. MASP should not exceed 3751 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM on each rig skid on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on

Well Name: SHADY PINES 24-36 Well Number: 121H

February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole. A variance is requested to cement offline for the surface and intermediate casing strings according to attached offline cementing supporting documentation. Permanent Wellhead – Multibowl System A. Starting Head: 13-5/8" 10M top flange x 9-5/8" SOW bottom B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange · Wellhead will be installed by manufacturer's representatives. · Manufacturer will monitor welding process to ensure appropriate temperature of seal. · Operator will test the 7-5/8" casing per BLM Onshore Order 2 · Wellhead Manufacturer representative will not be present for BOP test plug installation

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nippling up on the 9-5/8", 5M bradenhead and flange, the BOP test will be limited to 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

Shady_Pines_5MCM_20210617072835.pdf

BOP Diagram Attachment:

Shady_Pines_5MBOP_20210617072843.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.2 5	9.625	NEW	API	N	0	1229	0	1229	2976	1747	1229	J-55	40	BUTT	4.62	1.47	DRY	12.8 2	DRY	12.8 2
20000000	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	9824	0	9824	2976	-6848	9824	HCL -80	100000000000000000000000000000000000000	OTHER - Liberty FJ	2.04	1.77	DRY	2.35	DRY	2.35
	PRODUCTI ON	6.75	5.0	NEW	API	Υ	0	17639	0	10499	2976	-7523	17639	P- 110	8	OTHER - Semi- Premium	2.17	1.16	DRY	6.25	DRY	6.25

Casing Attachments

Well Name: SHADY PINES 24-36 Well Number: 121H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Shady_Pines_121H_csg_20210617084309.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Shady_Pines_121H_csg_20210617084237.pdf

Casing Design Assumptions and Worksheet(s):

Shady_Pines_121H_csg_20210617084256.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Shady_Pines_121H_csg_20210617084329.pdf

Casing Design Assumptions and Worksheet(s):

Section 4 - Cement

Well Name: SHADY PINES 24-36 Well Number: 121H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1229	310	1.35	12.8	418.5	100	HalCem-C	2% CaCl
SURFACE	Tail		0	1229	130	1.35	14.8	175.5	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	9824	310	2.77	10.5	858.7	100	NeoCem - See attachment for additional cement details.	None
INTERMEDIATE	Tail		0	9824	840	1.35	14.8	841.3 5	100	HalCem-C - See attachment for additional cement details.	None
PRODUCTION	Lead		9524	1763 9	700	1.51	13.2	1057	100	VersaCem	None

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: Spud with fresh water/native mud and set 9-5/8" surface casing, isolating the fresh water aquifer. Drill out from under 9-5/8 surface casing with a brine/oil direct emulsion mud system. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

Circulating Medium Table

Well Name: SHADY PINES 24-36 Well Number: 121H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	H	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
						Ö	Δ.	>_	S	ഥ	Ă
0	1229	SPUD MUD	8.4	8.8							
1229	9824	OTHER : Brine / Cut Bring / Direct Emulsion	8.5	10.2							
9824	1734 1	OTHER : Cut Brine / WBM / OBM	10.3	12.3							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well. List of open and cased hole logs run in the well:

CEMENT BOND LOG, DIRECTIONAL SURVEY, GAMMA RAY LOG,

Coring operation description for the well:

No coring will be performed on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5623 Anticipated Surface Pressure: 3303

Anticipated Bottom Hole Temperature(F): 165

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

Shady_Pines_H2S_Dia_20210617074244.pdf Shady_Pines_H2S_Plan_20210617074250.pdf

Well Name: SHADY PINES 24-36 Well Number: 121H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Shady_Pines_121H_DD_20210617084510.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

Shady_Pines_BOP_BTV_20210617074333.pdf

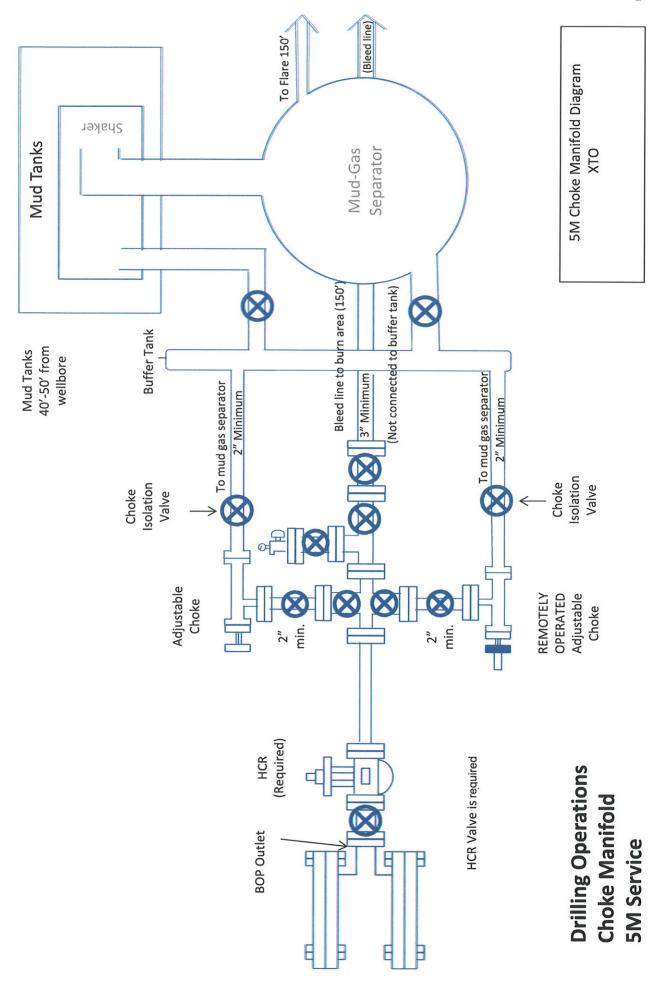
Shady_Pines_Batch_20210617074325.pdf

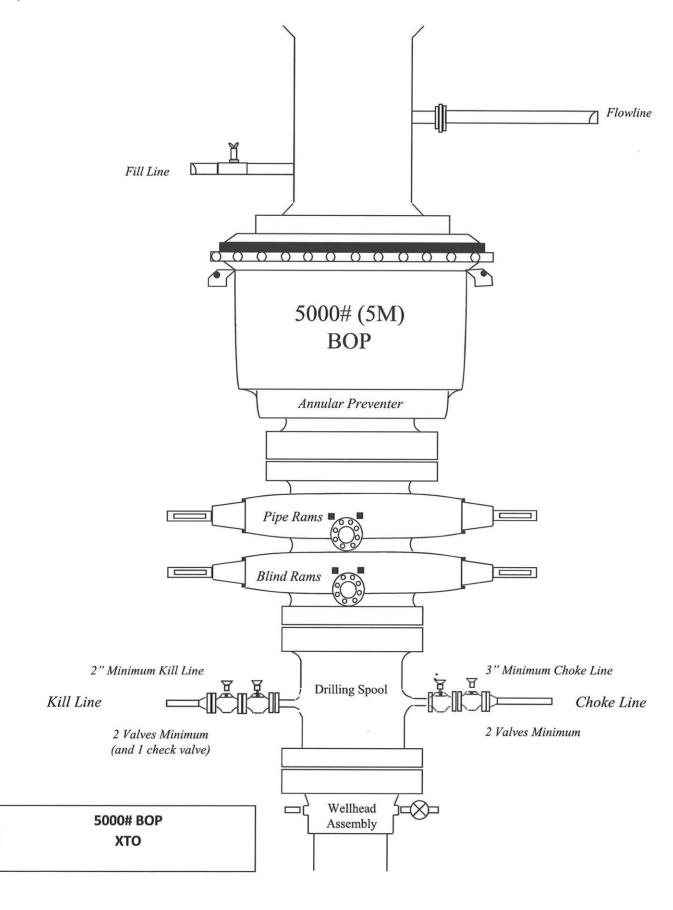
Shady_Pines_FH_20210617074340.pdf

Shady_Pines_MBD_20210617074433.pdf

Shady_Pines_OLCV_20210617074351.pdf

Shady_Pines_121H_cmt_20210617084515.pdf





3. Casi	3. Casing Design									
	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
	12-1/4"	0' – 1229'	9-5/8"	40	ВТС	J-55	New	1.41	4.62	12.82
	8-3/4"	0, – 4000,	7-5/8"	29.7	Liberty FJ	HPP-110	New	2.77	3.60	2.17
	8-3/4"	4000' – 9824'	7-5/8"	29.7	Liberty FJ	HCL-80	New	1.77	2.04	2.35
	6-3/4"	0' — 9724'	5-1/2"	20	Semi-Premium	P-110	New	1.26	1.94	1.88
	6-3/4"	9724' – 12400'	5-1/2"	20	Semi-Flush	P-110	New	1.26	1.52	4.38
	6-3/4"	12400' - 17639'	5"	18	Semi-Premium	P-110	New	1.16	2.17	6.25
	· XTO requests to	XTO requests to not utilize centralizers in the curve and lateral	zers in the c	urve and lat	eral					
	· /-5/8" Collapse	.7-5/8" Collapse analyzed using 50% 5-1/2" Tension calculated using vert	evacuation tical hanging	based on n weight plus	7-5/8" Collapse analyzed using 50% evacuation based on regional experience 5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35	ultiplied by a friction	factor of 0.35			
	· Test on Casing	will be limited to 70	% burst of the	o casing or	Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less	is less				
	Request to use	Request to use 5" BTC Float equipment for the the production casing	ment for the	the producti	ion casing					
Wellhead:	;;									
	Permanent We A. Starting Head	Permanent Wellhead – Multibow System A. Starting Head: 13-5/8" 10M top flange x 9-5/8" SOW bottom	/ System ange x 9-5/8"	SOW botto	E.C.					
	B. Tubing Head:	B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange	flange x 7-1	/16" 15M to	p flange					
		· Wellhead will be i	installed by r	nanufacture	· Wellhead will be installed by manufacturer's representatives.					
		· Manufacturer will	monitor welc	ling process	Manufacturer will monitor welding process to ensure appropriate temperature of seal.	e temperature of sea				
		· Operator will test	the /-5/8" c	asing per Bi	· Operator will test the 7-5/8" casing per BLM Onshore Order 2					
		. Wellieau Mailuia	crurer repres	entative will	. Weinnead Manufacturer representative will not be present for BOP test plug installation	JP test plug installar	lon			

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

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

Background

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

Supporting Documentation

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



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

	Pressure Test—Low	Pressure Test-	-High Pressure∞
Component to be Pressure Tested	Pressure Test—Low 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*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or for 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	
Annularis) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections For surface offshore operations, the	during the evaluation period. The p ssure tested on the largest and sm from one welfhead to another within when the integrity of a pressure set e tram BOPs shall be pressure set is tram BOPs shall be pressured.	n the 21 days, pressure testing is req at is broken.	program. uired for pressure-containing an the closing and looking pressur

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

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

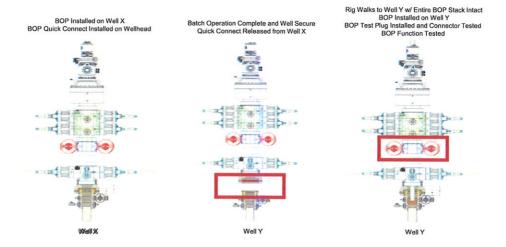
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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

Procedures

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

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

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



Summary

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

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

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

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

Page 22 of 53

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.



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 Fitting 1:

Gates Part No. :

Working Pressure :

4 1/16 m.5K FLG

4774-6001

5,000 PSI

End Fitting 2:

Assembly Code:

Test Pressure :

4 1/16 in.5K FLG

L33090011513D-060814-1

7,500 PSI

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

Quality:

Date .

Signature :

QUALITY

6/8/20147

Technical Supervisor:

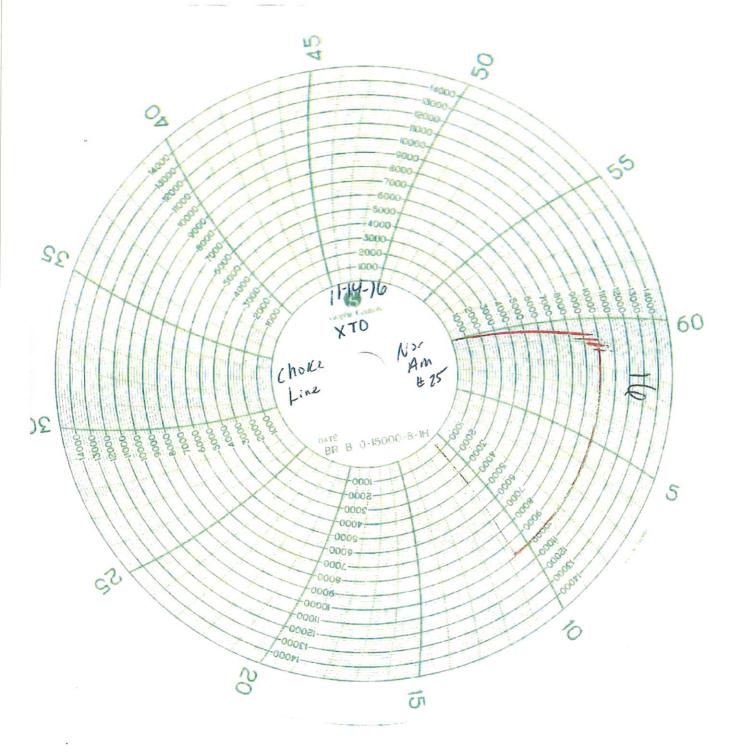
Date:

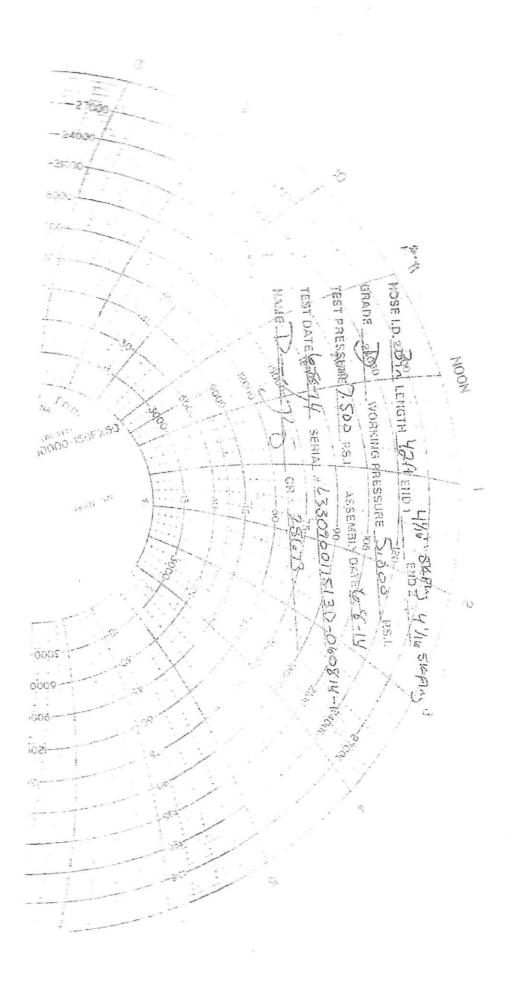
Signature:

PRODUCTION

6/8/2014

Form PTC - 01 Rev.0 2





18JAN21

XTO Permian Operating, LLC Offline Cementing Variance Request

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

1. Cement Program

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

2. Offline Cementing Procedure

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

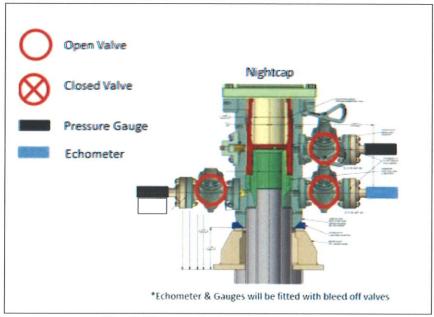
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set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



Annular packoff with both external and internal seals

1 Drilling Plan

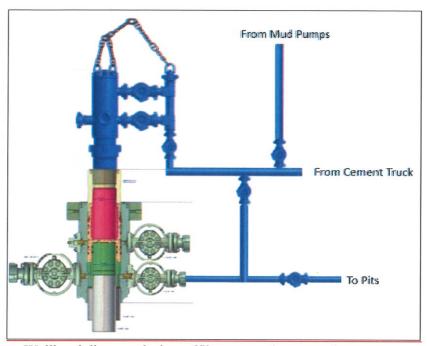
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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

Cement Variance Request

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (5708') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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



XTO Energy

Eddy County, NM (NAD-27) Shady Pines 24-36 #121H

OH

Plan: PERMIT

Standard Planning Report

12 July, 2019

TO

Project: Eddy County, NM (NAD-27) Site: Shady Pines 24-36 Well: #121H Wellbore: OH Design: PERMIT

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

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsodi: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

1100

1650

WELL DETAILS: #121H

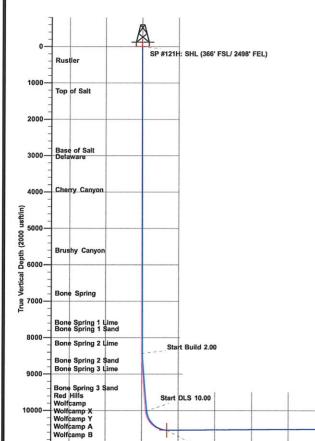
-1100

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SP #121H: SHL (366' FSL/ 2498' FEL)	0.00	0.00	0.00	371596.90	622898.10	32.0210141	-103.9367920	Point
SP #121H: PBHL (200' FSL/ 2430' FEL)	10498.83	-7449.20	101.30	364147.70	622999.40	32.0005351	-103.9365534	Point
SP #121H: LTP	10499.74	-7319.20	100.80	364277.70	622998.90	32.0008924	-103.9365534	Point
SP #121H: FTP/ LP	10546.00	-692.60	70.90	370904.30	622969.00	32.0191094	-103.9365714	Point

FORMATION TOP DETAILS

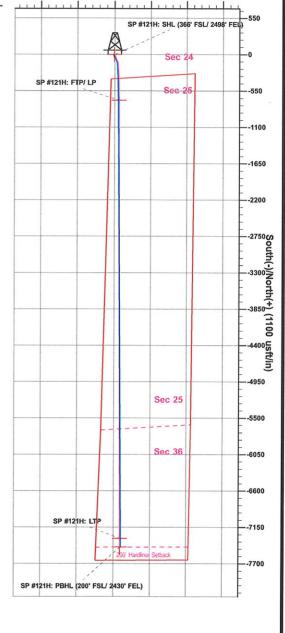
TVDPath	Formation	
486.00	Rustler	
1329.00	Top of Salt	
2960.00	Base of Salt	
3135.00	Delaware	
4041.00	Cherry Canyon	
5708.00	Brushy Canyon	
6886.00	Bone Spring	
7769.00	Bone Spring 1 Lime	
7862.00	Bone Spring 1 Sand	
8259.00	Bone Spring 2 Lime	
8729.00	Bone Spring 2 Sand	
8957.00	Bone Spring 3 Lime	
9742.00	Bone Spring 3 Sand	
9997.00	Red Hills	
10088.00	Wolfcamp	
10112.00	Wolfcamp X	
10189.00	Wolfcamp Y	
10216.00	Wolfcamp A	
10546.00	ĹP	



SP #121H: FTP/ LP

4000

Vertical Section at 179.74° (2000 usft/in)



TD at 17639.57

SP #121H: PBHL (200' FSL/ 2430' FEL)

9000

Plan: PERMIT (#121H/OH)

Created By: Prototype Well Planning, LLC Date: 10:55, July 12 2019

10000

SP #121H: LTP

7000

West(-)/East(+) (1100 usft/in)

-2000 -1000

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented Any decisions made or wells drilled utilizing this or any other information

11000

Districtl 1625 N. Hirenchilbr., Hobbs, (NM) 88240 Phone:((575)39346161 |Fax:((575)39340720 DistrictIII 98111 S. Hirst St. Artesia NM188210 Phone: (6575) 748-4283 | Eux: (6575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: ((505) 33446178 Fux: ((505) 33446170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: ((505)) 47.6-3460 [Fax: ((505)) 47.6-3462

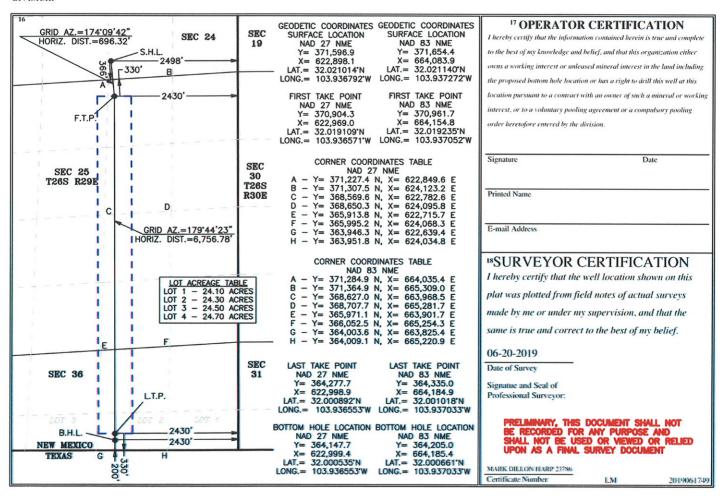
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

			WELL LO	CATIO	N AND ACI	KEAGE DEDIC	ATION PLA			
n ,	API Numbe	r		² Pool Cod	e		3 Pool Na	me		
	30-015-									
4 Property (Code				5 Property	Name			67	Well Number
					SHADY PIN	ES 24-36				121H
7 OGRID	No.				8 Operator	Name				9 Elevation
005380)				XTO ENER	GY, INC.				2,976'
					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
0	24	26 S	29 E		366	SOUTH	2,498	EAS	ST	EDDY
			"Bo	ttom Ho	le Location I	f Different Fron	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County
2	36	26 S	29 E		200	SOUTH	2,430	EAS	ST	EDDY
12 Dedicated Acres	13 Joint o	r Infill	¹⁴ Consolidation	Code 15 O	rder No.	•				

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





Planning Report

EDM 5000.1.13 Single User Db Database:

Company:

XTO Energy Project: Eddy County, NM (NAD-27)

Site: Well: Shady Pines 24-36

#121H Wellbore: OH PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #121H

RKB = 22' @ 2998.00usft RKB = 22' @ 2998.00usft

Grid

Minimum Curvature

Project Eddy County, NM (NAD-27)

Map System: Geo Datum:

Map Zone:

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

New Mexico East 3001

System Datum:

Mean Sea Level

Site Shady Pines 24-36

Site Position: From:

Мар

Northing: Easting: **Slot Radius:** 371,627.50 usft 622,897.90 usft 13-3/16 "

Latitude: Longitude: **Grid Convergence:**

32.0210983 -103.9367922 0.21

Well #121H

Position Uncertainty:

Well Position

-30.60 usft 0.20 usft

0.00 usft

0.00 usft

Northing: Easting: Wellhead Elevation: 371,596.90 usft 622,898.10 usft 0.00 usft

6.88

Latitude: Longitude: **Ground Level:**

32.0210141 -103.9367920 2,976.00 usft

47,570

Position Uncertainty Wellbore

OH

PERMIT

+N/-S

+E/-W

Magnetics **Model Name** Sample Date IGRF2015

Declination (°) 07/12/19

Dip Angle (°) 59.79 **Field Strength** (nT)

Design **Audit Notes:**

Version:

Phase:

PLAN

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

0.00

+N/-S (usft) 0.00

+E/-W (usft) 0.00

Direction (°) 179.74

Weasured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,433.00	0.00	0.00	8,433.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,683.06	5.00	156.85	8,682.74	-10.03	4.29	2.00	2.00	0.00	156.85	
10,024.81	5.00	156.85	10,019.38	-117.58	50.26	0.00	0.00	0.00	0.00	
10,882.74	90.40	179.74	10,546.00	-692.60	70.90	10.00	9.95	2.67	22.95	SP #121H: FTP/
17,509.57	90.40	179.74	10,499.74	-7,319.20	100.72	0.00	0.00	0.00	0.00	SP #121H: LTP
17,639.57	90.40	179.74	10,498.83	-7,449.20	101.30	0.00	0.00	0.00	0.00	SP #121H: PBHL



Planning Report

Database: Company:

EDM 5000.1.13 Single User Db

XTO Energy

Project: Site: Eddy County, NM (NAD-27)

Shady Pines 24-36

Well: #121H Wellbore: OH Design: PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #121H

RKB = 22' @ 2998.00usft RKB = 22' @ 2998.00usft

Grid

Minimum Curvature

ined Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
486.00 Rustler	0.00	0.00	486.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00			
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,329.00	0.00	0.00	1,329.00	0.00	0.00	0.00	0.00	0.00	0.00
Top of Salt									
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00 2,400.00	0.00 0.00	0.00	2,300.00 2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00
									0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,960.00	0.00	0.00	2,960.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,135.00 Delaware	0.00	0.00	3,135.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
100 PROCESS 10000									
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00 4,000.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,041.00 Cherry Cany	0.00	0.00	4,041.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site: Well: Eddy County, NM (NAD-27)

Shady Pines 24-36

Well: #121H Wellbore: OH Design: PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #121H

RKB = 22' @ 2998.00usft RKB = 22' @ 2998.00usft

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00 4,600.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00 0.00	0.00	4,600.00 4,700.00	0.00 0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,708.00	0.00	0.00	5,708.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy C: 5,800.00	anyon 0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00					
6.000.00	0.00	0.00	6,000.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,886.00	0.00	0.00	6,886.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spri									
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00 7,700.00	0.00 0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
•			7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,769.00 Bone Spri	0.00	0.00	7,769.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,862.00	0.00	0.00	7,862.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
	ng 1 Sand		.,	3.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,259.00	0.00	0.00	8,259.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spri									
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,433.00	0.00	0.00	8,433.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	1.34	156.85	8,499.99	-0.72	0.31	0.72	2.00	2.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: Shady Pines 24-36

Well: #121H Wellbore: OH Design: PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #121H

RKB = 22' @ 2998.00usft RKB = 22' @ 2998.00usft

Grid

sign:	PERMIT						1		
nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,600.00	3.34	156.85	8,599.91	-4.47	1.91	4.48	2.00	2.00	0.00
8,683.06 8,700.00	5.00 5.00	156.85 156.85	8,682.74 8,699.62	-10.03 -11.39	4.29 4.87	10.05 11.41	2.00 0.00	2.00 0.00	0.00
8,729.49	5.00	156.85	8,729.00	-13.75	5.88	13.78	0.00	0.00	0.00
Bone Spri		450.05		40.40					
8,800.00 8,900.00	5.00 5.00	156.85 156.85	8,799.24 8,898.86	-19.40 -27.42	8.29 11.72	19.44 27.47	0.00	0.00	0.00
8,958.37	5.00	156.85	8,957.00	-32.10	13.72	32.16	0.00	0.00	0.00
Bone Spri	•								477
9,000.00	5.00	156.85	8,998.48	-35.43	15.15	35.50	0.00	0.00	0.00
9,100.00	5.00	156.85	9,098.10	-43.45	18.57	43.53	0.00	0.00	0.00
9,200.00 9,300.00	5.00 5.00	156.85 156.85	9,197.71	-51.47	22.00	51.57	0.00	0.00	0.00
9,300.00	5.00	156.85	9,297.33 9,396.95	-59.48 -67.50	25.43 28.85	59.60 67.63	0.00 0.00	0.00 0.00	0.00
9,500.00	5.00	156.85	9,396.95	-67.50 -75.51	32.28	75.66	0.00	0.00	0.00 0.00
9,600.00	5.00	156.85	9,596.19	-83.53	35.71				
9,700.00	5.00	156.85	9,596.19	-83.53 -91.55	35.71	83.69 91.72	0.00	0.00 0.00	0.00
9,746.37	5.00	156.85	9,742.00	-95.26	40.72	95.45	0.00	0.00	0.00
Bone Spri		. 50.03	-,			301.13	0.00	0.00	0.00
9,800.00	5.00	156.85	9,795.43	-99.56	42.56	99.75	0.00	0.00	0.00
9,900.00	5.00	156.85	9,895.05	-107.58	45.99	107.79	0.00	0.00	0.00
10,000.00	5.00	156.85	9,994.67	-115.59	49.41	115.82	0.00	0.00	0.00
10,002.34	5.00	156.85	9,997.00	-115.78	49.49	116.00	0.00	0.00	0.00
Red Hills 10,024.81	5.00	156 95	10,019.38	117 50	E0 26	117.01	0.00	0.00	0.00
10,050.00	7.39	156.85 164.52	10,044.43	-117.58 -120.15	50.26 51.13	117.81 120.38	0.00 10.00	0.00 9.47	0.00 30.41
10,094.20	11.71	170.28	10,088.00	-127.31	52.64	127.55	10.00	9.78	13.04
Wolfcamp			,				10.00	00	10.01
10,100.00	12.28	170.74	10,093.68	-128.50	52.84	128.74	10.00	9.87	7.88
10,118.82	14.14	171.97	10,112.00	-132.76	53.49	133.00	10.00	9.89	6.54
Wolfcamp									
10,150.00	17.23	173.43	10,142.01	-141.12	54.55	141.36	10.00	9.92	4.70
10,199.93	22.20	174.95	10,189.00	-157.87	56.22	158.12	10.00	9.95	3.03
Wolfcamp 10,200.00	Y 22.21	174.95	10,189.07	-157.90	56.23	158.15	10.00	9.96	2.38
10,229.41	25.14	175.57	10,216.00	-169.67	57.20	169.92	10.00	9.96	2.12
Wolfcamp		175.57	10,210.00	-103.07	31.20	103.32	10.00	9.90	2.12
10,250.00	27.19	175.93	10,234.48	-178.72	57.87	178.98	10.00	9.97	1.75
10,300.00	32.18	176.63	10,277.90	-203.42	59.46	203.69	10.00	9.98	1.40
10,350.00	37.17	177.16	10,319.01	-231.82	61.00	232.09	10.00	9.98	1.06
10,400.00	42.16	177.58	10,357.49	-263.69	62.46	263.97	10.00	9.99	0.84
10,450.00	47.16	177.92	10,393.04	-298.80	63.83	299.08	10.00	9.99	0.69
10,500.00	52.15	178.21	10,425.40	-336.87	65.11	337.16	10.00	9.99	0.59
10,550.00	57.15	178.47	10,454.32	-377.62	66.29	377.92	10.00	9.99	0.51
10,600.00 10,650.00	62.14 67.14	178.70 178.91	10,479.58 10,500.99	-420.74 -465.90	67.35 68.29	421.04 466.20	10.00 10.00	9.99	0.46
								9.99	0.42
10,700.00	72.14	179.10	10,518.38	-512.75	69.11	513.06	10.00	9.99	0.39
10,750.00 10,800.00	77.13 82.13	179.28 179.46	10,531.62 10,540.62	-560.95 -610.11	69.79 70.33	561.26 610.42	10.00 10.00	9.99 9.99	0.37
10,850.00	87.13	179.46	10,540.62	-659.87	70.33	660.19	10.00	9.99	0.35 0.34
10,882.74	90.40	179.74	10,546.00	-692.60	70.90	692.91	10.00	9.99	0.34
LP									
10,900.00	90.40	179.74	10,545.88	-709.86	70.98	710.18	0.00	0.00	0.00



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Eddy County, NM (NAD-27) Site: Shady Pines 24-36

Well: #121H OH Wellbore: PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #121H

RKB = 22' @ 2998.00usft RKB = 22' @ 2998.00usft

Grid

lanned Survey		THE CHARLES AND ADDRESS OF THE CHARLES AND ADDRE			Agraming Constitution States			THE RESIDENCE AND ADDRESS OF	
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
11,000.00	90.40	179.74	10,545.18	-809.86	71.43	810.17	0.00	0.00	0.00
11,100.00	90.40	179.74	10,544.48	-909.85	71.88	910.17	0.00	0.00	0.00
11,200.00	90.40	179.74	10,543.79	-1,009.85	72.33	1,010.17	0.00	0.00	0.00
11,300.00	90.40	179.74	10,543.09	-1,109.85	72.78	1,110.17	0.00	0.00	0.00
11,400.00	90.40	179.74	10,542.39	-1,209.84	73.23	1,210.16	0.00		
11,500.00	90.40	179.74	10,542.39	-1,309.84	73.23	1,310.16	0.00	0.00 0.00	0.00 0.00
11,600.00	90.40	179.74	10,540.99	-1,409.84	74.13	1,410.16	0.00	0.00	0.00
11,700.00	90.40	179.74	10,540.29	-1,509.83	74.13	1,510.16		0.00	
11,800.00	90.40	179.74	10,540.29	-1,609.83	75.03		0.00		0.00
11,000.00	90.40	179.74	10,559.60	-1,009.03	75.03	1,610.15	0.00	0.00	0.00
11,900.00	90.40	179.74	10,538.90	-1,709.83	75.48	1,710.15	0.00	0.00	0.00
12,000.00	90.40	179.74	10,538.20	-1,809.82	75.93	1,810.15	0.00	0.00	0.00
12,100.00	90.40	179.74	10,537.50	-1,909.82	76.38	1,910.15	0.00	0.00	0.00
12,200.00	90.40	179.74	10,536.80	-2,009.82	76.83	2,010.14	0.00	0.00	0.00
12,300.00	90.40	179.74	10,536.11	-2,109.81	77.28	2,110.14	0.00	0.00	0.00
12,400.00	90.40	179.74	10,535.41	-2,209.81	77.73	2,210.14	0.00	0.00	0.00
12,500.00	90.40	179.74	10,534.71	-2,309.81	78.18	2,310.14	0.00	0.00	0.00
12,600.00	90.40	179.74	10,534.01	-2,409.80	78.63	2,410.13	0.00	0.00	0.00
12,700.00	90.40	179.74	10,533.31	-2,509.80	79.08	2,510.13	0.00	0.00	0.00
12,800.00	90.40	179.74	10,532.62	-2,609.80	79.53	2,610.13	0.00	0.00	0.00
12,900.00	90.40	179.74	10,531.92	-2,709.79	79.98	2,710.13	0.00	0.00	0.00
13,000.00	90.40	179.74	10,531.22	-2,809.79	80.43	2,810.12	0.00	0.00	0.00
13,100.00	90.40	179.74	10,530.52	-2,909.78	80.88	2,910.12	0.00	0.00	0.00
13,200.00	90.40	179.74	10,529.82	-3,009.78	81.33	3,010.12	0.00	0.00	0.00
13,300.00	90.40	179.74	10,529.12	-3,109.78	81.78	3,110.12	0.00	0.00	0.00
13,400.00	90.40	179.74	10,528.43	-3,209.77	82.23	3,210.11	0.00	0.00	0.00
13,500.00	90.40	179.74	10,527.73	-3,309.77	82.68	3,310.11	0.00	0.00	0.00
13,600.00	90.40	179.74	10,527.03	-3,409.77	83.13	3,410.11	0.00	0.00	0.00
13,700.00	90.40	179.74	10,526.33	-3,509.76	83.58	3,510.11	0.00	0.00	0.00
13,800.00	90.40	179.74	10,525.63	-3,609.76	84.03	3,610.10	0.00	0.00	0.00
13,900.00	90.40	179.74	10,524.94	-3,709.76	84.48	3,710.10	0.00	0.00	0.00
14,000.00	90.40	179.74	10,524.24	-3,809.75	84.93	3,810.10	0.00	0.00	0.00
14,100.00	90.40	179.74	10,523.54	-3,909.75	85.37	3,910.10	0.00	0.00	0.00
14,200.00	90.40	179.74	10,522.84	-4,009.75	85.82	4,010.09	0.00	0.00	0.00
14,300.00	90.40	179.74	10,522.14	-4,109.74	86.27	4,110.09	0.00	0.00	0.00
14,400.00	90.40	179.74	10,521.45	-4,209.74	86.72	4,210.09	0.00	0.00	0.00
14,500.00	90.40	179.74	10,520.75	-4,309.74	87.17	4,310.09	0.00	0.00	0.00
14,600.00	90.40	179.74	10,520.05	-4,409.73	87.62	4,410.09	0.00	0.00	0.00
14,700.00	90.40	179.74	10,519.35	-4,509.73	88.07	4,510.08	0.00	0.00	0.00
14,800.00	90.40	179.74	10,518.65	-4,609.73	88.52	4,610.08	0.00	0.00	0.00
14,900.00	90.40	179.74	10,517.95	-4,709.72	88.97	4,710.08	0.00	0.00	0.00
15,000.00	90.40	179.74	10,517.26	-4,809.72	89.42	4,810.08	0.00	0.00	0.00
15,100.00	90.40	179.74	10,516.56	-4,909.72	89.87	4,910.07	0.00	0.00	0.00
15,200.00	90.40	179.74	10,515.86	-5,009.71	90.32	5,010.07	0.00	0.00	0.00
15,300.00	90.40	179.74	10,515.16	-5,109.71	90.77	5,110.07	0.00	0.00	0.00
15,400.00	90.40	179.74	10,514.46	-5,209.71	91.22	5,210.07	0.00	0.00	0.00
15,500.00	90.40	179.74	10,513.77	-5,309.70	91.67	5,310.06	0.00	0.00	0.00
15,600.00	90.40	179.74	10,513.07	-5,409.70	92.12	5,410.06	0.00	0.00	0.00
15,700.00	90.40	179.74	10,512.37	-5,509.70	92.57	5,510.06	0.00	0.00	0.00
15,800.00	90.40	179.74	10,512.67	-5,609.69	93.02	5,610.06	0.00	0.00	0.00
15,900.00	90.40	179.74	10,510.97	-5,709.69	93.47	5,710.05	0.00	0.00	0.00
16,000.00	90.40	179.74	10,510.28	-5,809.68	93.92	5,810.05	0.00	0.00	0.00
16,100.00	90.40	179.74	10,509.58	-5,909.68	94.37	5,910.05	0.00	0.00	0.00
16,200.00	90.40	179.74	10,508.88	-6,009.68	94.82	6,010.05	0.00	0.00	0.00
16,300.00	90.40	179.74	10,508.18	-6,109.67	95.27	6,110.04	0.00	0.00	0.00



Database:

EDM 5000.1.13 Single User Db

Company:

XTO Energy

Project:

Site: Well: Wellbore: Design:

Eddy County, NM (NAD-27) Shady Pines 24-36

#121H ОН **PERMIT** Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #121H

RKB = 22' @ 2998.00usft RKB = 22' @ 2998.00usft

Grid

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,400.00	90.40	179.74	10,507.48	-6,209.67	95.72	6,210.04	0.00	0.00	0.00
16,500.00	90.40	179.74	10,506.78	-6,309.67	96.17	6,310.04	0.00	0.00	0.00
16,600.00	90.40	179.74	10,506.09	-6,409.66	96.62	6,410.04	0.00	0.00	0.00
16,700.00	90.40	179.74	10,505.39	-6,509.66	97.07	6,510.03	0.00	0.00	0.00
16,800.00	90.40	179.74	10,504.69	-6,609.66	97.52	6,610.03	0.00	0.00	0.00
16,900.00	90.40	179.74	10,503.99	-6,709.65	97.97	6,710.03	0.00	0.00	0.00
17,000.00	90.40	179.74	10,503.29	-6,809.65	98.42	6,810.03	0.00	0.00	0.00
17,100.00	90.40	179.74	10,502.60	-6,909.65	98.87	6,910.02	0.00	0.00	0.00
17,200.00	90.40	179.74	10,501.90	-7,009.64	99.32	7,010.02	0.00	0.00	0.00
17,300.00	90.40	179.74	10,501.20	-7,109.64	99.77	7,110.02	0.00	0.00	0.00
17,400.00	90.40	179.74	10,500.50	-7,209.64	100.22	7,210.02	0.00	0.00	0.00
17,509.57	90.40	179.74	10,499.74	-7,319.20	100.72	7,319.58	0.00	0.00	0.00
17,600.00	90.40	179.74	10,499.11	-7,409.63	101.12	7,410.01	0.00	0.00	0.00
17,639.57	90.40	179.74	10,498.83	-7,449.20	101.30	7,449.58	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SP #121H: SHL (366' - plan hits target ce - Point	0.00 enter	0.00	0.00	0.00	0.00	371,596.90	622,898.10	32.0210141	-103.9367920
SP #121H: PBHL (200 - plan hits target ce - Point	0.00 enter	0.00	10,498.83	-7,449.20	101.30	364,147.70	622,999.40	32.0005351	-103.9365533
SP #121H: LTP - plan misses targe - Point	0.00 et center by		10,499.74 17509.57u	-7,319.20 sft MD (1049	100.80 99.74 TVD, -7	364,277.70 319.20 N, 100.72	622,998.90 2 E)	32.0008925	-103.9365534
SP #121H: FTP/ LP - plan hits target ce - Point	0.00 enter	0.00	10,546.00	-692.60	70.90	370,904.30	622,969.00	32.0191094	-103.9365714



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site: Eddy County, NM (NAD-27)

Shady Pines 24-36

Well: #121H Wellbore: OH Design: PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #121H

RKB = 22' @ 2998.00usft RKB = 22' @ 2998.00usft

Grid

Measured Depth (usft)	Vertical Depth (usft)			Dip	Dip Direction
		Name	Lithology	(°)	(°)
486.00	486.00				
1,329.00	1,329.00	Top of Salt			
2,960.00	2,960.00	Base of Salt			
3,135.00	3,135.00	Delaware			
4,041.00	4,041.00	Cherry Canyon			
5,708.00	5,708.00	Brushy Canyon			
6,886.00	6,886.00	Bone Spring			
7,769.00	7,769.00	Bone Spring 1 Lime			
7,862.00	7,862.00	Bone Spring 1 Sand			
8,259.00	8,259.00	Bone Spring 2 Lime			
8,729.49	8,729.00	Bone Spring 2 Sand			
8,958.37	8,957.00	Bone Spring 3 Lime			
9,746.37	9,742.00	Bone Spring 3 Sand			
10,002.34	9,997.00	Red Hills			
10,094.20	10,088.00	Wolfcamp			
10,118.82	10,112.00	Wolfcamp X			
10,199.93	10,189.00	Wolfcamp Y			
10,229.41	10,216.00				
10,882.74	10,546.00				

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy Incorporated
WELL NAME & NO.: Shady Pines 24-36 121H
LOCATION: Sec 24-26S-29E-NMP
COUNTY: Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Brushy Draw Pool** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 850 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

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- after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

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GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea CountyCall 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 Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for 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 intergrity 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

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- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 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 OOGO2.III.A.2.i 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 when specified), whichever is greater. However, if the float does not

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- 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- 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 Onshore Order No. 2.
- C. DRILLING MUD

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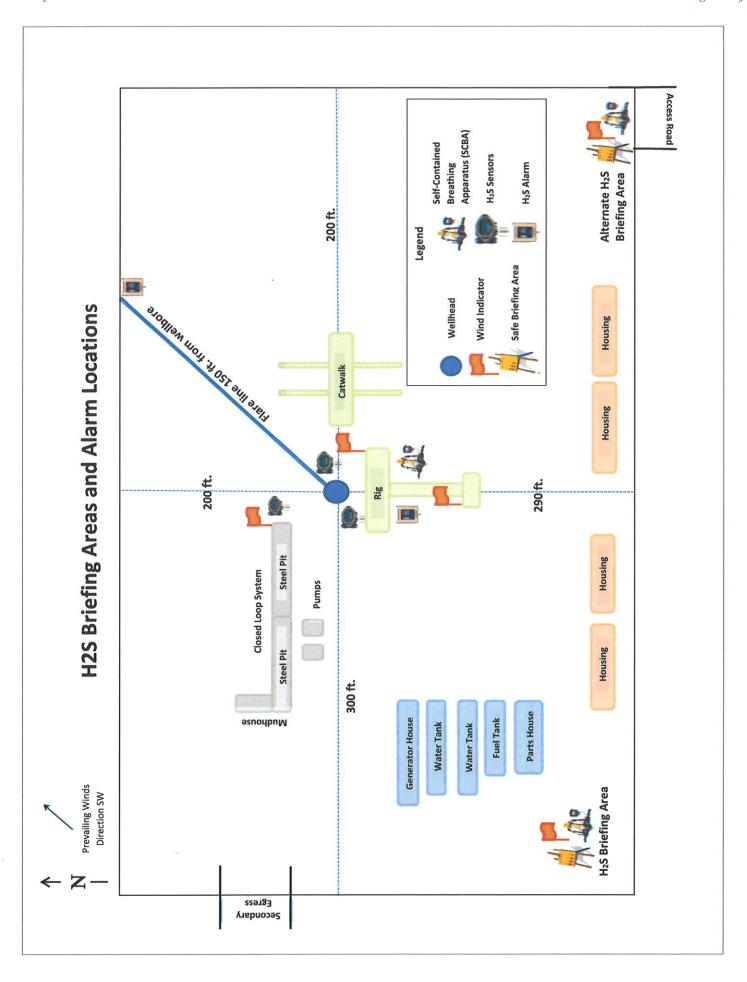
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

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

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

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HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

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

Characteristics of H₂S and SO₂

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Common Name	Chemical	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
	Formula	153			
Hydrogen Sulfide	H ₂ S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

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

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

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

Operator Name: XTO ENERGY INCORPORATED

Well Name: SHADY PINES 24-36 Well Number: 121H

Waste type: GARBAGE

Waste content description: Garbage

Amount of waste: 250 pounds

Waste disposal frequency: Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location. Debris. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. vd.)

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

WCuttings area liner

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 145074

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	145074
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	9/23/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/23/2022
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/23/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	9/23/2022
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/23/2022