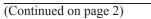
Form 3160-3 (June 2015) UNITED STATI DEPARTMENT OF THE	INTERIOR			FORM AP OMB No. 1 Expires: Janua 5. Lease Serial No.	004-0137				
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO				6. If Indian, Allotee or Tribe Name					
1b. Type of Well: Oil Well Gas Well	REENTER Other Single Zone [Multiple Zone		7. If Unit or CA Agreer 8. Lease Name and We	-				
2. Name of Operator				9. API Well No. 30-C	015-53867				
3a. Address	3b. Phone N	No. <i>(include area cod</i>	le)	10. Field and Pool, or E					
 4. Location of Well (<i>Report location clearly and in accordance</i> At surface At proposed prod. zone 	e with any State	e requirements.*)		11. Sec., T. R. M. or Bl	k. and Survey or Area				
$\frac{14. \text{ Distance in miles and direction from nearest town or post of }}{14. \text{ Distance in miles and direction from nearest town or post of }}$	ffice*			12. County or Parish	13. State				
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No of a	cres in lease	17. Spacin	ng Unit dedicated to this	well				
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propose	ed Depth	20. BLM/	BIA Bond No. in file					
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work will	start*	23. Estimated duration					
	24. Attac	chments							
The following, completed in accordance with the requirements (as applicable)	of Onshore Oil	and Gas Order No.	1, and the H	Iydraulic Fracturing rule	per 43 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 Syst SUPO must be filed with the appropriate Forest Service Official 		Item 20 above). 5. Operator certifi	cation.	s unless covered by an ex mation and/or plans as ma					
25. Signature	Name	e (Printed/Typed)		Da	ate				
Title									
Approved by (Signature)	Name	e (Printed/Typed)		Da	ate				
Title	Office	2							
Application approval does not warrant or certify that the applic applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ant holds legal	or equitable title to t	hose rights	in the subject lease which	h would entitle the				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statement					department or agency				
	OVED WI	TH CONDI	TONS						
(Continued on page 2)	01111			*(Instr	uctions on page 2				



.

Released to Imaging: 6/12/2023 12:29:44 PM Approval Date: 12/02/2022

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 709 FNL / 645 FWL / TWSP: 25S / RANGE: 29E / SECTION: 22 / LAT: 32.120796 / LONG: -103.978771 (TVD: 0 feet, MD: 0 feet) PPP: SWSW / 330 FSL / 1170 FWL / TWSP: 25S / RANGE: 29E / SECTION: 15 / LAT: 32.123654 / LONG: -103.977082 (TVD: 10338 feet, MD: 10695 feet) BHL: NWNW / 200 FNL / 1170 FWL / TWSP: 25S / RANGE: 29E / SECTION: 10 / LAT: 32.151389 / LONG: -103.977085 (TVD: 10338 feet, MD: 20784 feet)

BLM Point of Contact

Name: Priscilla Perez Title: Legal Instruments Examiner Phone: (575) 234-5934 Email: pperez@blm.gov

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number	r		² Pool Code		³ Pool Name							
	30-015- 5	3867	982	20		Purple Sage;V	Volfcamp (gas)						
⁴ Property (⁵ Property N	Name			⁶ V	Vell Number			
334103	3		CORRAL CANYON 15-10 FED 122H										
⁷ OGRID I	No.				⁸ Operator N	Name			9	Elevation			
005380	0				XTO ENERG	¥Y, INC.				3,054'			
			¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County			
D	22	25 S	29 E		709	NORTH	645	WEST	r	EDDY			
			¹¹ Bot	tom Hol	e Location If	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			
D	10	25 S	29 E		200	NORTH	1,170	WEST	,	EDDY			
¹² Dedicated Acres	5 ¹³ Joint o	r Infill ¹⁴ C	onsolidation (idation Code ¹⁵ Order No.									
640													

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

16										· · · · · · · · · · · · · · · · · · ·
10	ODO.		В.Н.Ц. 0	SEC.	0	SHL (M	AD83 NME)	LTP (N	IAD83 NME)	¹⁷ OPERATOR CERTIFICATION
	SEC.	4		B SEC	. ა	Y =	407,862.1	Y =	418,863.1	I hereby certify that the information contained herein is true and complete
			E VJ	<u> </u>		X =	651,103.5	X =	651,588.7	to the best of my knowledge and belief, and that this organization either
		1,170'-	<──── ──	<u> </u>	1	LAT. =	32.120796 °N	LAT. =	32.151032 °N	owns a working interest or unleased mineral interest in the land including
		1,170'-	┥┥╲	< l>	1	LONG. =	103.978771 °W	LONG. =	103.977086 °W	
			I I	L.T.P.		FTP (N	AD83 NME)	BHL (N	IAD83 NME)	the proposed bottom hole location or has a right to drill this well at this
1			<u> </u>			Y =	408,903.7	Y =	418,993.1	location pursuant to a contract with an owner of such a mineral or working
			1 1			X =	651,623.1	X =	651,588.7	interest, or to a voluntary pooling agreement or a compulsory pooling
1					1	LAT. =	32.123654 °N	LAT. =	32.151389 °N	
1			i li	SEC.	10	LONG. =	103.977082 °W	LONG. =	103.977085 °W	order heretofore entered by the division.
	SEC.	9					CORNER COORDIN	ATES (NAD83	•	Coopia (1)2020 10/15/2020
		<u> </u>	1년			A - Y =	408,567.4 N ,	X =	650,455.3 E	
						B - Y =	411,222.4 N ,	X =	650,438.0 E	Signature Date
					1	C - Y =	413,876.2 N ,	X =	650,421.1 E	Cassie Evans
					1	D - Y =	416,528.0 N ,	X =	650,419.3 E	
GF	RID AZ.=35	9°48'16" 🦯	- + + + +			E - Y =	419,185.6 N ,	X =	650,418.6 E	Printed Name
HORIZ	 Z. DIST.=10 	0,089.47	1 ¹ 1			F - Y =	408,574.5 N ,	X =	651,780.6 E	
1		l.	∣ <mark>⊨</mark>	- 330'	1	G - Y =	411,229.4 N ,	X =	651,764.9 E	cassie_evans@xtoenergy.com
						H - Y =	413,878.3 N ,	X =	651,749.4 E	E-mail Address
		С	ЦH			- Y = J - Y =	416,536.4 N ,	X =	651,745.9 E	
			L				419,194.1 N ,	X =	651,743.0 E	
			1			SHL (r Y =	407,803.6	LIP (N Y =	IAD27 NME) 418,804.3	18SURVEYOR CERTIFICATION
1			1			Y = X =	609,919.3	f = X =	418,804.3 610,404.7	I hereby certify that the well location shown on this
1			I I		1	LAT. =	32.120671 °N	LAT. =	32.150907 °N	
			+ + ₁ +			LONG. =	103.978284 °W		103.976599 °W	plat was plotted from field notes of actual surveys
1			1	SEC.	15		AD27 NME)		IAD27 NME)	made by me or under my supervision, and that the
	ORO	10	1 1		R29E	Y =	408,845.2	Y =	418,934.3	
	SEC.	10	I I		1	X =	610,438.9	X =	610,404.7	same is true and correct to the best of my belief.
		B				LAT. =	32.123529 °N	LAT. =	32.151264 °N	
					1		103.976595 °W		103.976597 °W	9-16-2020 J DILLON
		1			1		CORNER COORDIN			Date of Survey Signature and Seal of
		1				A - Y =	408,508.9 N ,	X =	609,271.1 E	Date of Survey Signatue and Seal of
		'	└ _ ! !'!			B - Y =	411,163.9 N ,	X =	609,253.8 E	
		1		F.T.P.		C - Y =	413,817.6 N ,	X =	609,237.0 E	Professional Surveyor:
			/	· .		D - Y =	416,469.3 N ,	X =	609,235.3 E	((23786))
		1,170'-		- ² 00		E - Y =	419,126.8 N ,	X =	609,234.6 E	
1		1,170 -				F - Y =	408,516.0 N ,	X =	610,596.4 E	
GRI	D AZ.=26°3	30'43" A	F			G - Y =	411,170.9 N ,	X =	610,580.7 E	
	DIST.=1,1	64.00'		200		H - Y =	413,819.7 N ,	X =	610,565.2 E	WILL SSIONAL SUR
1		645'-		[∞] SEC	. 22	I - Y =	416,477.7 N ,	X =	610,561.8 E	MARK DILLON HARP 23786
	SEC. 21		S.H.L			J - Y =	419,135.3 N ,	X =	610,558.9 E	Certificate Number LM 2018010300
	SEC. 21		S.H.L		· ~~					Certificate Number LM 2018010300

Receiv	ed by	OCD :	6/10/2	023 6:	:31:33	PM
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State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: _____XTO Energy Inc_____OGRID: 05380 _____Date: _01 / _16 /2023_

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.

If Other, please describe:

III. Well(s): 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	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Corral Canyon 15-10 Fed 102H		D-22-25S-29E	701' FNL; 585' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 103H		C-22-25S-29E	890' FNL; 2020' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 104H		B-22-25S-29E	894' FNL; 2049' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 105H		B-22-25S-29E	604' FNL; 1705' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 107H		A-22-25S-29E	284' FNL; 865' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 108H		A-22-25S-29E	284' FNL; 835' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 121H		D-22-25S-29E	705' FNL; 615' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 122H		D-22-25S-29E	709' FNL; 645' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 124H		C-22-25S-29E	886' FNL; 1990' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 125H		B-22-25S-29E	608' FNL; 1675' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 126H		B-22-25S-29E	612' FNL; 1646' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 127H		A-22-25S-29E	284' FNL; 895' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 161H		D-22-25S-29E	697' FNL; 555' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 162H		D-22-25S-29E	693' FNL; 526' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 163H		C-22-25S-29E	882' FNL; 1960' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 164H		C-22-25S-29E	878' FNL; 1930' FWL	2000	3200	3500
Corral Canyon 15-10 Fed 165H		B-22-25S-29E	600' FNL; 1735' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 166H		B-22-25S-29E	595' FNL; 1765' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 167H		A-22-25S-29E	284' FNL; 924' FEL	2000	3200	3500
Corral Canyon 15-10 Fed 168H		A-22-25S-29E	284' FNL; 955' FEL	2000	3200	3500

IV. Central Delivery Point Name: Corral Canyon 15-10 CTB [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 Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Corral Canyon 15-10 Fed 102H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 103H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 104H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 105H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 107H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 108H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 121H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 122H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 124H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 125H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 126H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 127H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 161H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 162H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 163H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 164H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 165H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 166H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 167H		TBD	TBD	TBD	TBD	TBD
Corral Canyon 15-10 Fed 168H		TBD	TBD	TBD	TBD	TBD

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

VII. Operational Practices: \boxtimes Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: 🛛 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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: Cassie Evans
Printed Name: Cassie Evans
Title: Regulatory Analyst
E-mail Address: cassie.evans@exxonmobil.com
Date: 01/16/2023
Phone: 432.218.3671
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

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

VII. Operational Practices:

- 1. Subsection B.
 - During drilling, flare stacks will be located a minimum of 150 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
 - Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
 - At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- 2. Subsection C.
 - During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.

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

- Flowlines will be routed for flowback fluids into a completion or storage tank and, if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- 3. Subsection D.
 - At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
 - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.

- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- 4. Subsection E.
 - All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
 - Flare stack was installed prior to May 25, 2021 but has been designed for proper size and combustion efficiency. Flare currently has a continuous pilot and is located more than 100 feet from any known well and storage tanks.
 - At any point in the well life (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly (at minimum) to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
- 5. Subsection F.
 - Measurement equipment is installed to measure the volume of natural gas flared from process piping or a flowline piped from the equipment associated with a well and facility associated with the approved application for permit to drill that has an average daily production greater than 60 mcf of natural gas.
 - Measurement equipment installed is not designed or equipped with a manifold to allow diversion of natural gas around the metering equipment, except for the sole purpose of inspecting and servicing the measurement equipment, as noted in NMAC 19.15.27.8 Subsection G.

VIII. Best Management Practices:

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



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

APD ID: 10400065067

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 15-10 FED

Well Type: CONVENTIONAL GAS WELL

Well Number: 122H Well Work Type: Drill

Submission Date: 11/11/2020

Highlighted data reflects the most recent changes

12/05/2022

Drilling Plan Data Report

<u>Show Final Text</u>

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
1139899	RUSTLER	2435	619	619	SILTSTONE	USEABLE WATER	N
1139900	TOP SALT	1581	854	854	SALT	NONE	N
1139901	BASE OF SALT	-445	2880	2880	SALT	NONE	N
1139902	DELAWARE	-649	3084	3084	SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
1139903	BONE SPRING	-4387	6822	6822	SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
1139904	WOLFCAMP	-7607	10042	10042	SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
1139898	PERMIAN	-7903	10338	20785	OTHER : QUATERNERNARY	NONE	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 10338

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

Requesting Variance? YES

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

Well Name: CORRAL CANYON 15-10 FED

Well Number: 122H

representatives. • Manufacturer will monitor welding process to ensure appropriate temperature of seal. • Operator will test the 7-5/8" casing per BLM Onshore Order 2 • Wellhead Manufacturer representative will not be present for BOP test plug installation

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 70% of the working pressure. When nippling up on the 11-3/4", 10M bradenhead and flange, the BOP test will be limited to 7500 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

CC_15_10_Fed_10MCM_20220219052540.pdf

BOP Diagram Attachment:

CC_15_10_Fed_5M10M_BOP_20220219052556.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	11.75	NEW	API	N	0	875	0	875	3053	2178	875	J-55	47	ST&C	3.81	1.19	DRY	17.9 2	DRY	17.9 2
2	INTERMED IATE	10.6 25	8.625	NEW	API	N	0	9400	0	9400	3084	-6347	9400	HCL -80	32	ST&C	1.46	1.69	DRY	2.43	DRY	2.43
3	PRODUCTI ON	7.87 5	5.5	NEW	API	N	0	20785	0	10338	3084	-7285	20785	P- 110	20	BUTT	1.97	1.2	DRY	2.25	DRY	2.25

Casing Attachments

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Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 15-10 FED

Well Number: 122H

•			
Casing ID:	1	String	SURFACE
Inspection E	Oocument:		
Spec Docun	oont:		
Spec Docum			
Tapered Stri	ing Spec:		
Casing Desi	gn Assumpti	ions and Wo	orksheet(s):
CC_15	_10_Fed_122	2H_csg_2020	01110143834.pdf
Casing ID:	2	String	INTERMEDIATE
Inspection D	Ocument:		
C	1-		
Spec Docun	ient:		
Tapered Stri	ing Spec:		
Casing Desi	gn Assumpti	ions and Wo	orksheet(s):
CC_15	_10_Fed_122	2H_csg_2020	01110143759.pdf
Casing ID:	3	String	PRODUCTION
Inspection E	Oocument:		
•			
C	1-		
Spec Docun	ient:		
Tapered Stri	ing Spec:		
Casing Desi	gn Assumpti	ions and Wo	orksheet(s):
CC_15	_10_Fed_122	2H_csg_2020	01110143728.pdf

Section 4 - Cement

Well Name: CORRAL CANYON 15-10 FED

Well Number: 122H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	875	260	1.87	12.9	486.2	100	EconoCem- HLTRRC	none
SURFACE	Tail				190	1.35	14.8	256.5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	3500	400	3500	1100	1.87	12.9	2057	100	Econocem- HLTRRC	none
INTERMEDIATE	Tail				310	1.35	14.8	418.5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead		3500	9400	580	1.88	12.9	1090. 4	100	EconoCem- HLTRRC	none
INTERMEDIATE	Tail				150	1.33	14.8	199.5	100	Halcem-C	2% CaCl
PRODUCTION	Lead		8400	2078 5	1660	1.61	13.2	2656. 5	30	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 a fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: A Pason or Totco will be used to detect changes in loss or gain of mud volume.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	875	OTHER : FW / Native	8.4	8.8							A Pason or Totco will be used to detect changes in

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 15-10 FED

Well Number: 122H

-											
Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
											loss or gain of mud volume. A mud test will be performed every 24 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.
875	9400	OTHER : Brine / Cut Brine / WBM	8.8	9.5							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 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.
9400	1033 8	OTHER : Cut Brine / WBM / OBM	10	13.5					1		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 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.

Section 6 - Test, Logging, Coring

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

Mud logging Unit (2 man) on below intermediate casing.

List of open and cased hole logs run in the well:

CEMENT BOND LOG,COMPENSATED NEUTRON LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,MUD LOG/GEOLOGICAL LITHOLOGY LOG, Coring operation description for the well:

no coring will take place on this well.

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Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 15-10 FED

Well Number: 122H

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Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5645

Anticipated Surface Pressure: 3370

Anticipated Bottom Hole Temperature(F): 155

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

- CC_15_10_Fed_Pad_D_H2S_Diagram_20201110144129.pdf
- CC_15_10_H2S_Plan_20201110144148.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CC_15_10_Fed_122H_DD_20201110144221.pdf

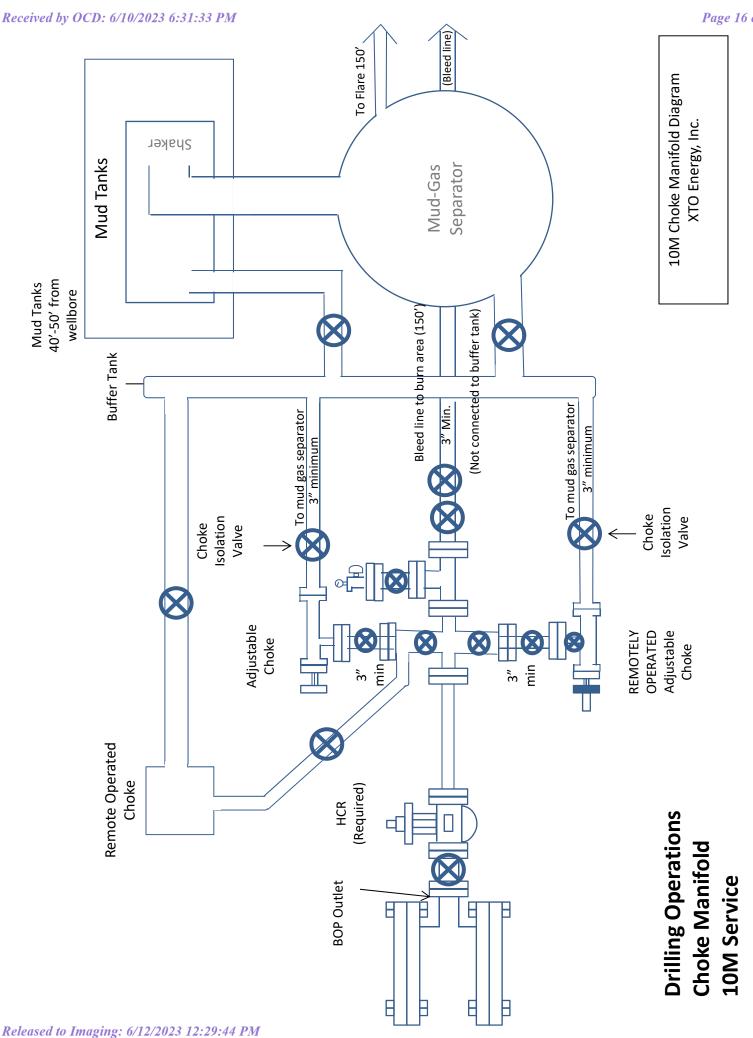
Other proposed operations facets description:

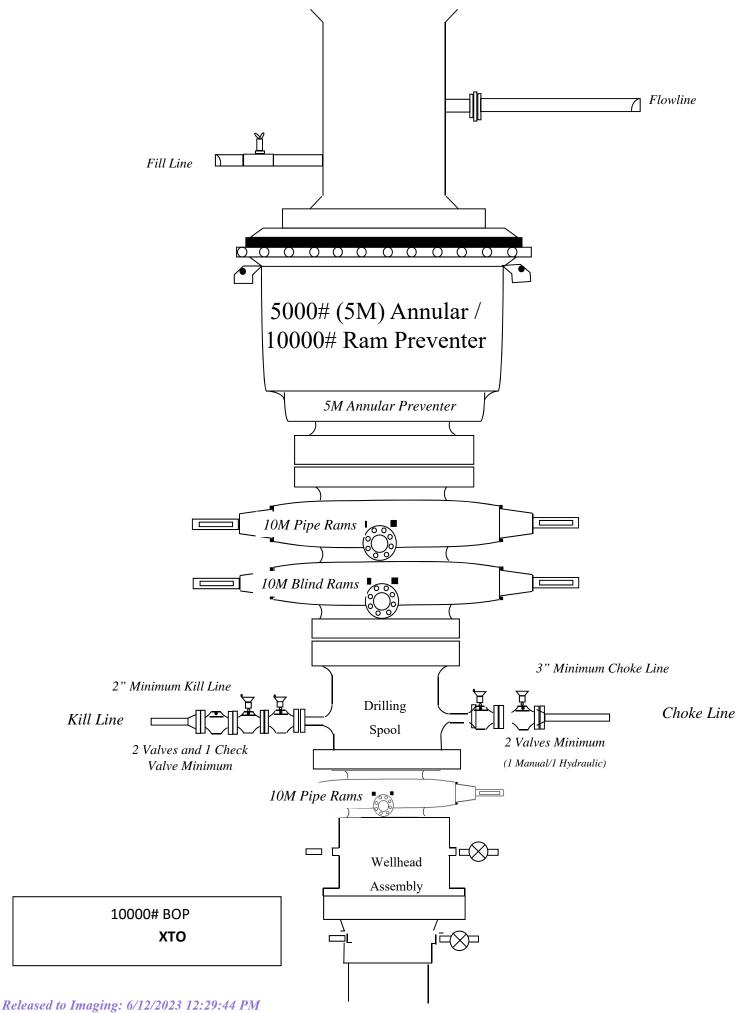
Other proposed operations facets attachment:

CC_15_10_Fed_GCP_20201110144237.pdf

Other Variance attachment:

- CC_15_10_FH_20201110144255.pdf
- CC_15_10_MBD_20201110144316.PDF
- CC_15_10_Break_20201110144631.pdf
- CC_15_10_cmt_variance_20201110144649.pdf
- CC_15_10_Spud_20201110144840.pdf





3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' – 875'	11 3/4"	47	STC	J-55	New	1.19	3.81	17.92
10-5/8"	0' – 9400'	8-5/8"	32	STC	HCL-80	New	1.69	1.46	2.43
7-7/8"	0' – 20785'	5-1/2"	20	BTC	P-110	New	1.20	1.97	2.25

\cdot XTO requests to not utilize centralizers in the curve and lateral

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

· 5-1/2" Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

· Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

Wellhead:

Permanent Wellhead – Cactus Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom

- B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange
 - \cdot Wellhead will be installed by manufacturer's representatives.
 - · Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - · Operator will test the 8-5/8" casing per BLM Onshore Order 2
 - · Wellhead Manufacturer representative will not be present for BOP test plug installation



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

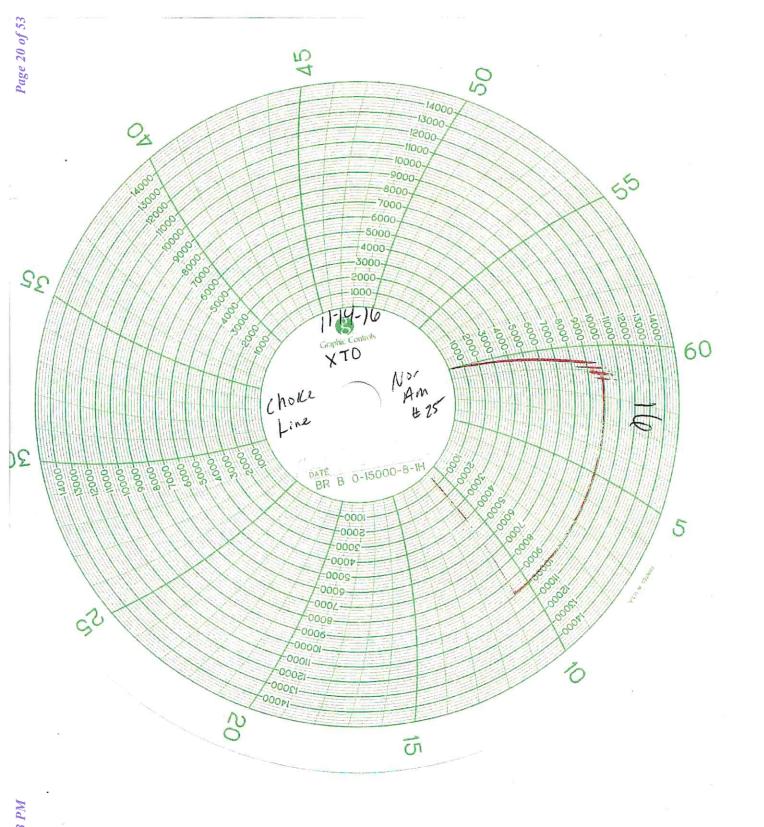
GRADE D PRESSURE TEST CERTIFICATE

Customer ;	AUSTIN DISTRIBUTING	Test Date:	6.00.000.0
Customer Ref. :	PENDING	Hose Serial No.:	6/8/2014
Invoice No. :	201709		D-060814-1
		Created By:	NORMA
Product Description:		FD3.042.0R41/16.5KFLGE/E	LE
		103.042.0K41/10.5KFLGE/E	
End Filling 1 :	4 1/16 in.5K FLG	7	
	4 1/16 m.5K FLG 4774-6001	End Fitting 2 :	4 1/16 in.5K FLG
End Filling 1 :		7	

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.

	. /		
ity: : iture :	QUALITY 	Technical Supervisor : Date : Signature :	PRODUCTION 6/8/2014

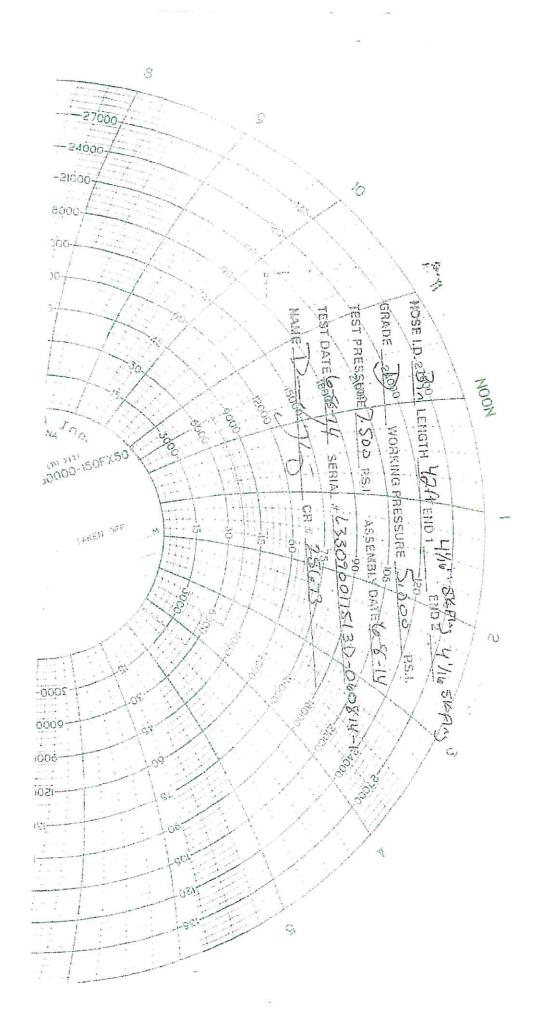
Form PTC - 01 Rev.0 2



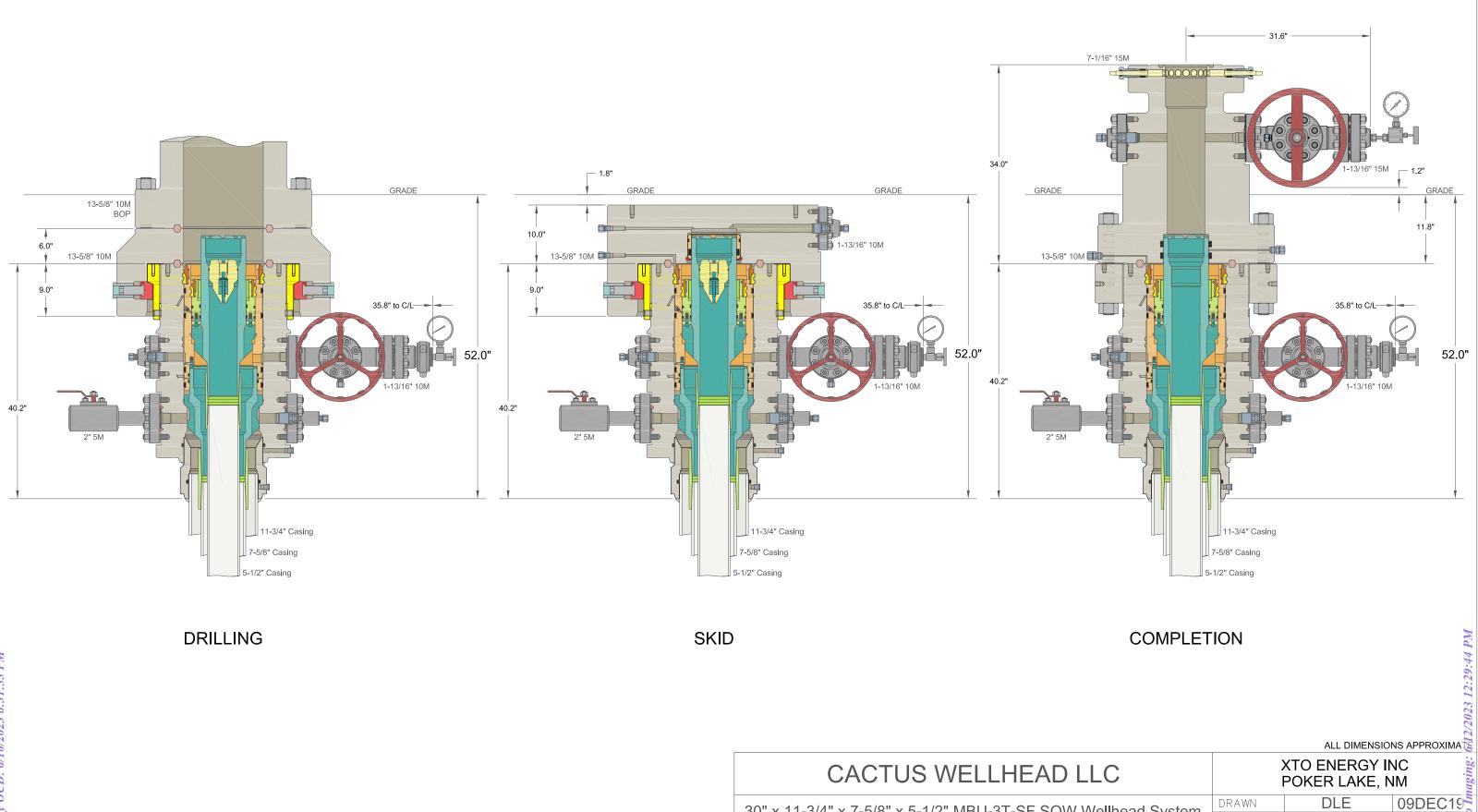
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FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY UTHORIZED BY CACTUS WELLHEAD, LLC.

30" x 11-3/4" x 7-5/8" x 5-1/2" MBU-3T-SF SOW Wellhead System With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And 7-5/8" & 5-1/2" Fluted Mandrel Casing Hangers

DRAWING NO.

DRAWN

APPRV

ODE0003261

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 ^{ac}	
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 ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP	
Choke manifold—downstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	ASP for the well program,	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program		
	during the evaluation period. The p	ressure shall not decrease below the allest OD drill pipe to be used in well		
	from one wellhead to another withi when the integrity of a pressure se	n the 21 days, pressure testing is req al is broken	uired for pressure-containing ar	

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.

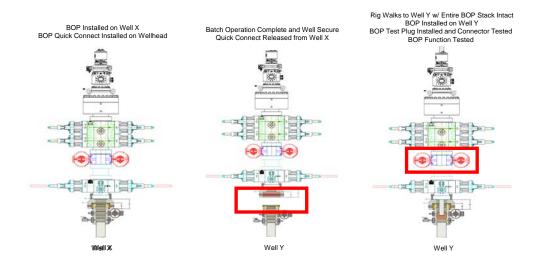
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

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.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

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



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

Summary

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

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

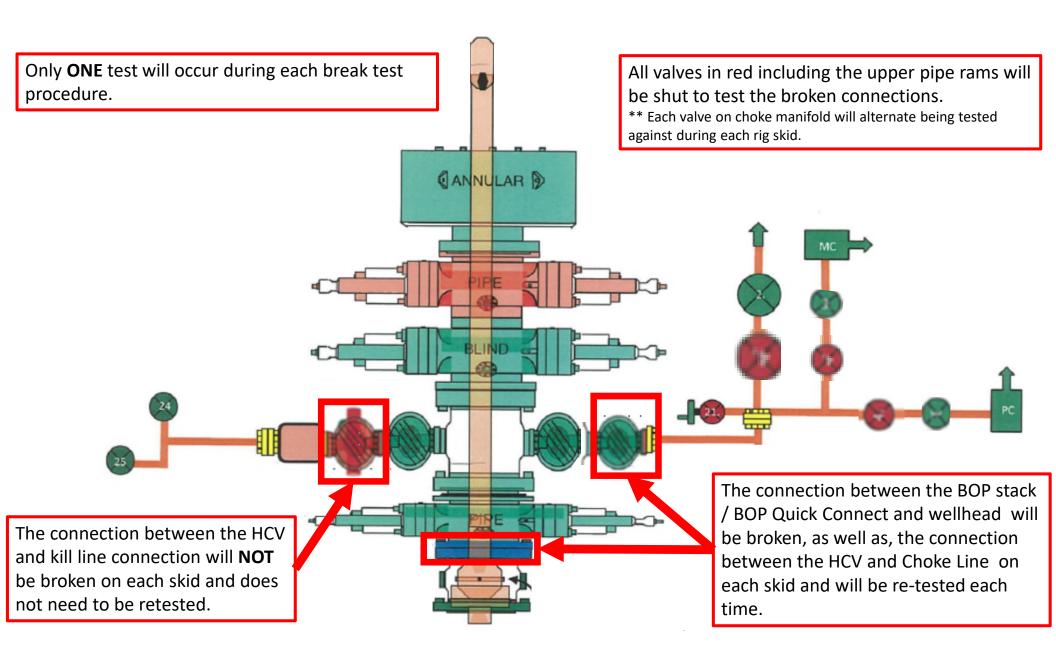
Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

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

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

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

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



XTO 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

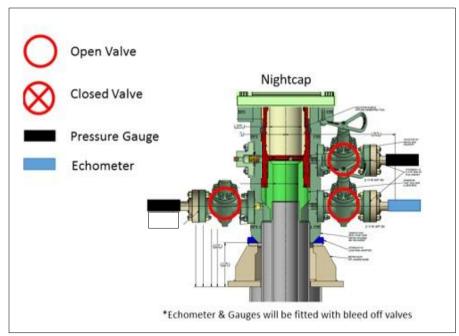
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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.



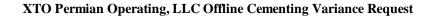
Annular packoff with both external and internal seals

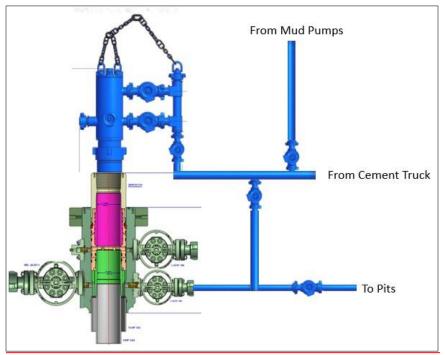




Wellhead diagram during skidding operations

- 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





Wellhead diagram during offline cementing operations

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

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

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



XTO Energy Eddy County, NM (NAD-27)

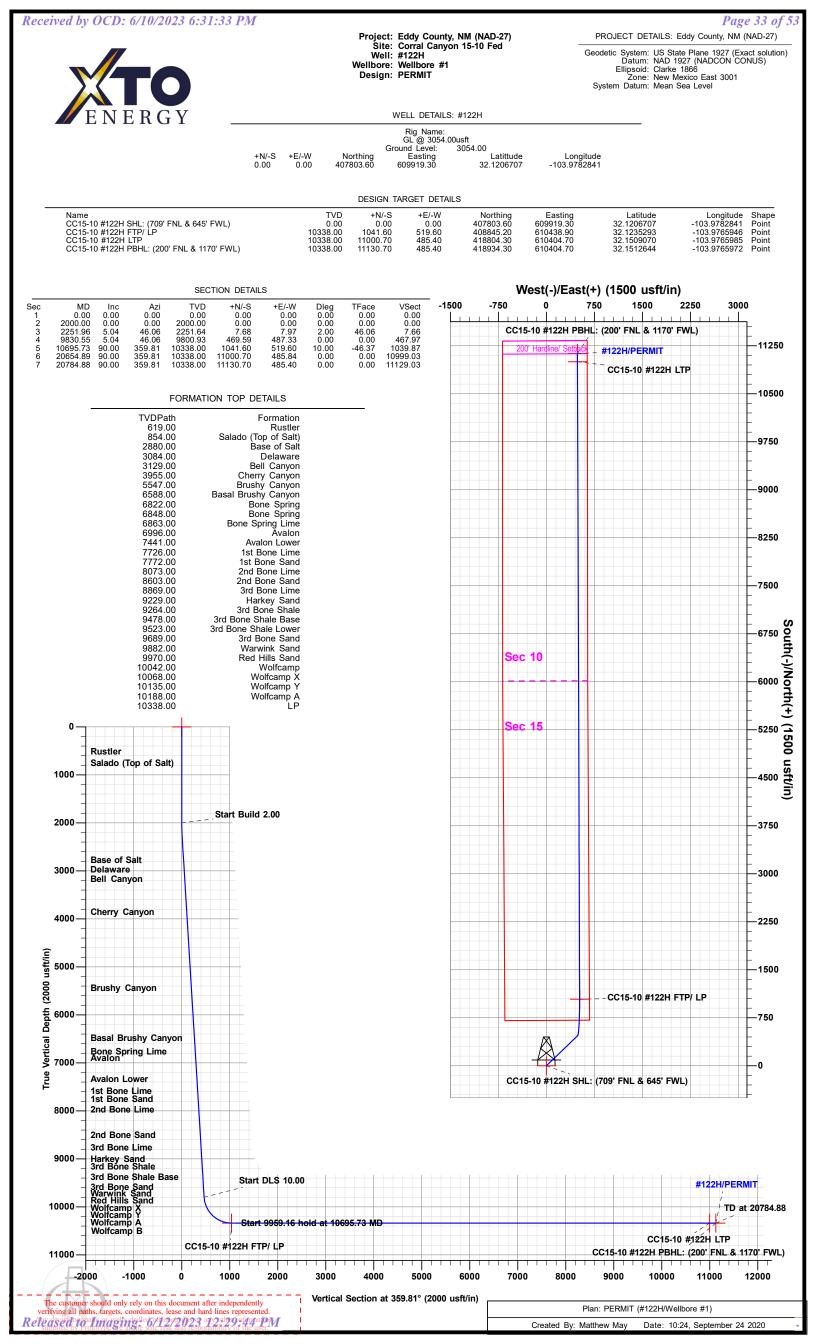
Corral Canyon 15-10 Fed #122H

Wellbore #1

Plan: PERMIT

Standard Planning Report

24 September, 2020





Planning Report

ompany: XTO Energy TVD Reference: GL @ 3054.00usft roject: Eddy County, NM (NAD-27) MD Reference: GL @ 3054.00usft Gel 203054.00usft GL @ 3054.00usft Gel Wellbore #1 Mennimum Curvature Project Eddy County, NM (NAD-27) System Datum: Mean Sea Level Seb Datum: Not fing: \$1000000000000000000000000000000000000		-									
roject: te: te: te: te: te: te: te: t	Database: Company:			ngle User Db				eference:		usft	
Image: PERMIT Survey Calculation Method: Minimum Curvature Project Eddy County, NM (NAD-27) System Datum: Mean Sea Level App System: US State Plane 1927 (Exact solution) New Mexico East 3001 System Datum: Mean Sea Level Site Position: No Triping: 618,842.10 usft Latitude: 32.150975 Site Position: Map Northing: 614,204.90 usft Latitude: 32.150975 Solition Uncertainty: 0.00 usft Sterating: 614,204.90 usft Latitude: 32.150975 Solition Uncertainty: 0.00 usft Sterating: 614,204.90 usft Latitude: 32.150975 Solition Uncertainty: 0.00 usft Northing: 614,204.90 usft Latitude: 32.150975 Solition Uncertainty: 0.00 usft Northing: 609,919.30 usft Longitude: 32.120976 Vellbore #102H	Project:			(NAD-27)					0		
Verification Weilbore #1 PERMIT Main factorial according to the factording to the factorial according to the factorial	Site:	Corra	al Canyon 15-	10 Fed		North Re	eference:		Grid		
essign: PERMIT Project Eddy County. NM (NAD-27) App System: US Salar Plane 1927 (Exact solution) NAD 1927 (NAD-CON CONUS) System Datum: System Datum: Mean Sea Level App System: US Salar Plane 1927 (Exact solution) New Mexico East 3001 System Datum: Mean Sea Level Site Dosition: Corral Canyon 15-10 Fed Map Northing: 614.204.90 ust Easting: Latitude: 32.150975 Longitude: 32.150975 .103.964315 Site Position: Map Northing: 614.204.90 ust Easting: Latitude: 32.150975 .020 0.00 Veil #122H Veil Convergence: 0.20 Site Solution: 0.00 ust G69.919.30 ust God 0.00 ust Latitude: 32.120870 .020 Veil Position +N/-S -11.038.50 usft Northing: 407.803.60 usft Latitude: 32.120870 .00 usft G09.919.30 usft Latitude: 32.120870 .00 usft G09.919.30 usft Latitude: 32.120870 .00 usft G019 Angle Field Strength (r) G0.00 God A1.00 usft Veilbore Veilbore Passe: PLAN Te On Depth: 0.00 <th< th=""><th>Vell:</th><th></th><th></th><th></th><th></th><th>Survey 0</th><th>Calculation M</th><th>lethod:</th><th>Minimum Curv</th><th>ature</th><th></th></th<>	Vell:					Survey 0	Calculation M	lethod:	Minimum Curv	ature	
Argent Eddy County, NM (NAD-27) Arge System: US State Plane 1927 (Exact solution) NAD 1927 (NADC CONUS) Map Zone: System Datum:: Mean Sea Level Site Position: Torm: New Mexico East 3001 Northing: Easting: 614,204.90 usft 13.3/16 Latitude: Grid Convergence: 32:150975 32:150975 Site Position: Torm: Map Northing: Easting: 0:00 usft 614,204.90 usft 13:3/16 Latitude: Grid Convergence: 32:150975 Vell #122H User Solution: Map Northing: Easting: 0:00 usft 609,919.30 usft Conglitude: Latitude: 3.054.00 usft 32:150975 Vell #122H User Solution: Well bore #1 0.00 usft Conglitude: 0:02 0.20 Vell #122H User Solution: User Solution: 0:00 usft 0:00 usft Latitude: Conglitude: 0:00 usft 32:150975 Vell bore #1 User Solution: 0:00 usft 0:00 usft Latitude: Conglitude: 0:02 32:150975 Vell bore #1 0:00 usft Conglitude: 0:00 usft 1:03:87848 Conglitude: 0:00 35:8.8 47:501 Vellbore Wellbore #1 0:00 usft Depth From (TVD) (usft) +K/XS +E/AW (r100us	Wellbore:										
Aps System: Dee Datum:: Bee Datum:: See Datum:: Dee Datum:: New Mexico East 3001 System Datum:: System Datum:: New Mexico East 3001 Mean Sea Level Site Decent:: Site Position: Trom:: Map Corral Canyon 15-10 Fed Site Site Position: Map Northing: Site Easting:: 0.00 usft 418,842.10 usft 418,842.10 usft 13-3/16* Latitude: Corral Convergence: 0.20 Well #122H Northing: Easting: 0.00 usft Northing: Stot Radius: 0.00 usft 407,803.60 usft 407,803.60 usft Latitude: 0.00 usft Latitude: Corral Convergence: 0.20 32.12067 0.21 Vell #1/23H Wellbread Elevation: 0.00 usft Northing: Easting: 0.00 usft More and the search Corral Convergence: 0.20 Field Strength (nT) Vell Position *N.* *E/.W 0.00 usft Dip Angle Ground Level: 0.00 Field Strength (nT) Vellbore Wellbore #1 Usft (usft) PLAN Tie On Depth: (usft) 0.00 Stot Radius: 0.00 Store and 0.00 Store and 0.00 Trop (n') Trop (n') Trop (n') Target Measured Dection: (usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 </th <th>Design:</th> <th>PERM</th> <th>TIN</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Design:	PERM	TIN								
Babe Datum:: NAD 1927 (NADCON CONUS) New Mexico East 3001 Site Corral Canyon 15-10 Fed Site Corral Canyon 15-10 Fed Site Position: Map Zene:: Morthing:: 614.204.90 ust 103.964315 Latitude:: 32.15097 Prom:: Map Zene:: Northing:: 614.204.90 ust 103.964315 Congitude:: 103.964315 Position Uncertainty: 0.00 ust Stot Radius: 13-3/16* Grid Convergence: 0.20 Vell #122H Vell #122H 407.803.60 ust Easting: Latitude:: 32.12087C -103.978284 Volloor Wellbore 10.00 ust Bample Date Easting: G00.00 ust Easting:: 407.803.60 ust Longitude: Latitude:: 32.12087C -103.978284 Volloor Wellbore Wellbore Bample Date (') Declination Dip Angle (') Field Strength (') God Strength (') Velloor Wellbore Model Name Sample Date (') Declination Field Strength (') God Strength (') To On Depth: 0.00 Vertical Section: Phase: PLAN te/-W (u	Project	Eddy (County, NM (I	NAD-27)							
Bit P Osition : From: Map 0.00 usft Northing: Easting: 418,842.10 usft 614,204.90 usft Latitude: Onglude: 32.15097- Constraint Voll #122H	Map System: Geo Datum: Map Zone:	NAD 19	27 (NADCON	V CONUS)	ion)	System D	atum:	Ν	lean Sea Level		
Bit P Osition : From: Map 0.00 usft Northing: Easting: 418,842.10 usft 614,204.90 usft Latitude: Onglude: 32.15097- Constraint Voll #122H	Site	Corral	Canvon 15-1	0 Fed							
Trom: Map bosition Uncertainty: Map 0.00 usft Easting: Siot Radius: 614,204,90 usft 13-3/16* Longitude: Grid Convergence: -103,964316 0.20 Vell #122H					nina.	418 8	842 10 usft	Latitudo:			32 150075
Prosition Uncertainty: 0.00 usft Slot Radius: 13-3/16* Grid Convergence: 0.20 Veil #122H	From:		D		-	-					
Veil Position +N/-S +E/-W -11,038.50 usft -4,285.60 usft 0.00 usft Northing: Easting: 0.00 usft 407,803.60 usft 609,919.30 usft 0.00 usft Latitude: Longitude: 0.00 usft 32.120670 -103.978284 Ground Level: 3,054.00 usft Veilbore Weilbore #1 Model Name Sample Date Declination (*) Dip Angle (*) Field Strength (nT) Veilbore Model Name Sample Date Declination (*) Dip Angle (*) Field Strength (nT) Veilbore Model Name Sample Date Declination (*) Dip Angle (*) Field Strength (nT) Veilbore PERMIT Vertical Section: Permit Notes: (usft) Tie On Depth: (usft) 0.00 0.00 Pase: PLAN Tie On Depth: (usft) 0.00 359.81 Measured (usft) Depth From (TVD) +N/-S (usft) *E/-W (usft) Dogleg (*/100usft) Build (*/100usft) Turn (*/100usft) Tro (*/100usft) Tro (*/100usft) Target Plane Vertical Depth From (UVD) +N/-S (usft) *E/-W (usft) Dogleg (*/100usft) Build (*/100usft) Turn (*/100usft) Tro (*/100usft) Tro (*/100usft) Target </td <td>Position Unce</td> <td></td> <td>•</td> <td></td> <td>•</td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td>0.20</td>	Position Unce		•		•			•			0.20
+E/-W -4,285.60 ust 0.00 ust Easting: Wellbad Elevation: 609,919.30 ust 0.00 ust Longitude: Ground Level: -103.978284 3,054.00 ust 3,054.00 ust Vellbore Wellbore #1 Wellbore Wellbore Field Strength (n) Signed Strength (n) Field Strength (n) Field Strength (n) Field Strength (n) Vellbore Model Name Sample Date Declination (n) Dip Angle (n) Field Strength (n) Field Strength (n) Vellbore PERMIT Image: PERMIT Image: PERMIT Image: PLAN Tie On Depth: 0.00 Vertical Section: Phase: PLAN Tie On Depth: 0.00 0.00 359.81 Measured (usft) Ongoing Rate (n) Build (n) Turn (n) Tro (n) Tro (n) Tro (n) Target O.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Vertical Section: Vertical (n) ft Vertical (usft) +N/-S +E/-W (usft) Dogleg Rate (n) ft Build Rate (n) ft Turn (n) ft Teo (n) Teo (n) Ono Vertical Section: 0.00 0.00 0.00	Well	#122H									
Prosition Uncertainty 0.00 usft Wellberd Elevation: 0.00 usft Ground Level: 3,054.00 usft 3,054.00 usft Wellbore Wellbore #1 Wellbore Field Strength (nT) Field Strength (nT	Well Position	-	,		•		-				
Neillbore Wellbore #1 Magnetics Model Name Sample Date Declination (*) Dip Angle (*) Field Strength (nT) IGRF2015 09/24/20 6.78 59.86 47,501 Design PERMIT Permit 0.00 47,501 Audit Notes: /ersion: Phase: PLAN Tie On Depth: 0.00 /ertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (usft) Turn (*) Turn Rate Tro (*)					•		,		•		
Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) IGRF2015 09/24/20 6.78 59.86 47,501 Design PERMIT 1 0.00 47,501 Audit Notes: Plase: PLAN Tie On Depth: 0.00 /ertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) 0.00 Plan Sections: Depth from (TVD) (usft) +N/-S (usft) E Tron (°) Plan Sections: Usft) Usft) (usft) 0.00 0.00 0.00 359.81 Plan Sections: Usft) Usft) Usft) Usft) Tron (°) TFO (°) Target 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Position Unce	ertainty	0.0	0 usft W	ellhead Elev	ation:	0.00	usft Gi	ound Level:		3,054.00 us
Instrument Image: Control of the control	Wellbore	Wellb	ore #1								
IGR F2015 09/24/20 6.78 59.86 47,501 Design PERMIT Permit 0.00 </td <td>Magnetics</td> <td>Мо</td> <td>del Name</td> <td>Sampl</td> <td>e Date</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td>	Magnetics	Мо	del Name	Sampl	e Date						•
Design PERMIT Tie On Depth 0.00 Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (usft) One Plan Sections: Vertical (notice the the the the the the the the the th			IGRE2015		09/24/20	(°)				(1	•
Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 /ertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (usft) Direction (°) 0.00 0.00 0.00 359.81 Plan Sections: Vertical Pepth From (TVD) +N/-S (usft) +E/-W (usft) Build Rate (°/100usft) Turn (Rate (°/100usft) Turn (°) Trop (°) Target Plan Sections: Vertical Pepth (usft) +N/-S (usft) +E/-W (usft) Dogleg Rate (°/100usft) Build (°/100usft) Turn (°) TFO (°) Target 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.00 2.000.00 0.00 <td></td> <td></td> <td></td> <td></td> <td>00/2 //20</td> <td></td> <td>0.1.0</td> <td></td> <td></td> <td></td> <td>,</td>					00/2 //20		0.1.0				,
Version: Phase: PLAN Tie On Depth: 0.00 Version: Depth From (TVD) (usft) +N/-S +E/-W Direction 0.00 0.00 0.00 359.81 Plan Sections: Measured Depth (ron) Azimuth (°) Vertical Depth (usft) N/-S E/-W Build (usft) Turn (°) TeO TeO Target 0.00 0.00 0.00 0.00 0.00 0.00 0.00 359.81 Plan Sections: Vertical (usft) +N/-S (usft) Dogleg Rate (°)(100usft) Build (°)(100usft) Turn Rate (°)(100usft) TeO Target 0.00 <	Design	PERM	IIT								
Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (usft) Direction (°) 0.00 0.00 0.00 0.00 359.81 Plan Sections Vertical (°) +N/-S 0.00 E/-W (usft) Dogleg (°/100usft) Build Rate (°/100usft) Turn Rate (°/100usft) TFO (°) Target 0.00 <td></td> <td></td> <td></td> <td>Pha</td> <td>so. E</td> <td>μανι</td> <td>Tie</td> <td>o On Denth</td> <td></td> <td>0.00</td> <td></td>				Pha	so. E	μανι	Tie	o On Denth		0.00	
Image: Non-Sections (usft) (usft) (usft) (usft) (usft) (c) Plan Sections 0.00 0.00 0.00 359.81 Plan Sections Measured (usft) Inclination (°) Azimuth (°) Vertical Depth (usft) +N/-S (usft) E/-W (usft) Dogleg (°/100usft) Build Rate (°/100usft) Turn Rate (°/100usft) TFO (°) Target 0.00 0.0		on.	D					•			
Plan Sections Measured Depth (usft) Inclination (°) Azimuth (°) Vertical Depth (usft) +N/-S (usft) +E/-W (usft) Dogleg Rate (°/100usft) Build Rate (°/100usft) Turn Rate (°/100usft) TFO (°) Target 0.00 0	Ventical Occu	011.			V D)						
Measured Depth (usft) Inclination (°) Azimuth (°) Vertical Depth (usft) +N/-S (usft) +E/-W (usft) Dogleg Rate (°/100usft) Build Rate (°/100usft) Turn Rate (°/100usft) TFO (°) Target 0.00 <td></td> <td></td> <td></td> <td>0.00</td> <td></td> <td>0.00</td> <td>0.</td> <td>.00</td> <td>35</td> <td>9.81</td> <td></td>				0.00		0.00	0.	.00	35	9.81	
Depth (usft) Inclination (°) Azimuth (°) Depth (usft) +N/-S (usft) +E/-W (usft) Rate (°/100usft) Rate	Plan Sections	;									
2,000.000.000.002,000.000.000.000.000.000.000.002,251.965.0446.062,251.647.687.972.002.000.0046.069,830.555.0446.069,800.93469.59487.330.000.000.000.0010,695.7390.00359.8110,338.001,041.60519.6010.009.82-5.35-46.37 CC15-10 #122H F20,654.8990.00359.8110,338.0011,000.70485.840.000.000.000.00 CC15-10 #122H L	Depth			Depth			Rate	Rate	Rate		Target
2,251.965.0446.062,251.647.687.972.002.000.0046.069,830.555.0446.069,800.93469.59487.330.000.000.000.0010,695.7390.00359.8110,338.001,041.60519.6010.009.82-5.35-46.37CC15-10 #122H F20,654.8990.00359.8110,338.0011,000.70485.840.000.000.000.00CC15-10 #122H L	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,830.555.0446.069,800.93469.59487.330.000.000.000.0010,695.7390.00359.8110,338.001,041.60519.6010.009.82-5.35-46.37CC15-10 #122HF20,654.8990.00359.8110,338.0011,000.70485.840.000.000.000.00CC15-10 #122HL	2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,695.73 90.00 359.81 10,338.00 1,041.60 519.60 10.00 9.82 -5.35 -46.37 CC15-10 #122H F 20,654.89 90.00 359.81 10,338.00 11,000.70 485.84 0.00 0.00 0.00 CC15-10 #122H L											
20,654.89 90.00 359.81 10,338.00 11,000.70 485.84 0.00 0.00 0.00 0.00 CC15-10 #122H L											
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20,784.89 90.00 359.81 10,338.00 11,130.70 485.40 0.00 0.00 0.00 0.00 CC15-10 #122H P	-										
	20,784.89	90.00	359.81	10,338.00	11,130.70	485.40	0.00	0.00	0.00	0.00	CC15-10 #122H P

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#122H

Wellbore #1 PERMIT



Database:

Company:

Project:

Wellbore:

Design:

Site:

Well:

Planning Report

Survey Calculation Method:

Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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
300.00 400.00	0.00 0.00	0.00 0.00	300.00 400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
500.00 600.00	0.00 0.00	0.00 0.00	500.00 600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00 1,200.00	0.00 0.00	0.00 0.00	1,100.00 1,200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,300.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00 1,900.00	0.00 0.00	0.00 0.00	1,800.00 1,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2.000.00			-						
2,000.00 2,100.00	0.00 2.00	0.00 46.06	2,000.00 2,099.98	0.00 1.21	0.00 1.26	0.00 1.21	0.00 2.00	0.00 2.00	0.00 0.00
2,200.00	4.00	46.06	2,199.84	4.84	5.03	4.83	2.00	2.00	0.00
2,251.96	5.04	46.06	2,251.64	7.68	7.97	7.66	2.00	2.00	0.00
2,300.00	5.04	46.06	2,299.49	10.61	11.01	10.57	0.00	0.00	0.00
2,400.00	5.04	46.06	2,399.10	16.71	17.34	16.65	0.00	0.00	0.00
2,500.00 2,600.00	5.04 5.04	46.06 46.06	2,498.72 2,598.33	22.80 28.90	23.66 29.99	22.72 28.80	0.00 0.00	0.00 0.00	0.00 0.00
2,700.00	5.04	46.06	2,598.55	34.99	36.31	34.87	0.00	0.00	0.00
2,800.00	5.04	46.06	2,797.56	41.09	42.64	40.94	0.00	0.00	0.00
2,900.00	5.04	46.06	2,897.17	47.18	48.96	47.02	0.00	0.00	0.00
3,000.00	5.04	46.06	2,996.78	53.28	55.29	53.09	0.00	0.00	0.00
3,100.00	5.04	46.06 46.06	3,096.40	59.37	61.61	59.17 65.24	0.00 0.00	0.00 0.00	0.00
3,200.00 3,300.00	5.04 5.04	46.06	3,196.01 3,295.62	65.46 71.56	67.94 74.26	65.24 71.31	0.00	0.00	0.00 0.00
3,400.00	5.04	46.06	3.395.24	77.65	80.59	77.39	0.00	0.00	0.00
3,500.00	5.04	46.06	3,494.85	83.75	86.91	83.46	0.00	0.00	0.00
3,600.00	5.04	46.06	3,594.46	89.84	93.24	89.53	0.00	0.00	0.00
3,700.00	5.04	46.06	3,694.08	95.94	99.56	95.61	0.00	0.00	0.00
3,800.00	5.04	46.06	3,793.69	102.03	105.89	101.68	0.00	0.00	0.00
3,900.00	5.04	46.06	3,893.31	108.13	112.21	107.76	0.00	0.00	0.00
4,000.00 4,100.00	5.04 5.04	46.06 46.06	3,992.92 4,092.53	114.22 120.32	118.54 124.86	113.83 119.90	0.00 0.00	0.00 0.00	0.00 0.00
4,100.00	5.04	46.06	4,192.15	126.41	131.19	125.98	0.00	0.00	0.00
4,300.00	5.04	46.06	4,291.76	132.51	137.51	132.05	0.00	0.00	0.00
4,400.00	5.04	46.06	4,391.37	138.60	143.84	138.13	0.00	0.00	0.00
4,500.00	5.04	46.06	4,490.99	144.70	150.16	144.20	0.00	0.00	0.00
4,600.00	5.04	46.06	4,590.60	150.79	156.49	150.27	0.00	0.00	0.00
4,700.00 4,800.00	5.04 5.04	46.06 46.06	4,690.21 4,789.83	156.89 162.98	162.81 169.14	156.35 162.42	0.00 0.00	0.00 0.00	0.00 0.00
-									
4,900.00 5,000.00	5.04 5.04	46.06 46.06	4,889.44 4,989.05	169.08 175.17	175.46 181.79	168.49 174.57	0.00 0.00	0.00 0.00	0.00 0.00
5,100.00	5.04	46.06	5,088.67	181.27	188.11	180.64	0.00	0.00	0.00
5,200.00	5.04	46.06	5,188.28	187.36	194.44	186.72	0.00	0.00	0.00

Released to Imaging: 6/12/2023 12:29:44 PM



Planning Report

Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well #122H GL @ 3054.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	GL @ 3054.00usft
Site:	Corral Canyon 15-10 Fed	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	5.04	46.06	5,287.89	193.46	200.76	192.79	0.00	0.00	0.00
5,400.00	5.04	46.06	5,387.51	199.55	207.09	198.86	0.00	0.00	0.00
5.500.00	5.04	46.06	5,487.12	205.65	213.41	204.94	0.00	0.00	0.00
5,600.00	5.04	46.06	5,586.73	211.74	219.74	211.01	0.00	0.00	0.00
5,700.00	5.04	46.06	5,686.35	217.84	226.06	217.09	0.00	0.00	0.00
5,800.00	5.04	46.06	5,785.96	223.93	232.39	223.16	0.00	0.00	0.00
			-						
5,900.00	5.04	46.06	5,885.58	230.03	238.72	229.23	0.00	0.00	0.00
6,000.00	5.04	46.06	5,985.19	236.12	245.04	235.31	0.00	0.00	0.00
6,100.00	5.04	46.06	6,084.80	242.22	251.37	241.38	0.00	0.00	0.00
6,200.00	5.04	46.06	6,184.42	248.31	257.69	247.45	0.00	0.00	0.00
6,300.00	5.04	46.06	6,284.03	254.41	264.02	253.53	0.00	0.00	0.00
6,400.00	5.04	46.06	6,383.64	260.50	270.34	259.60	0.00	0.00	0.00
6,500.00	5.04	46.06	6,483.26	266.60	276.67	265.68	0.00	0.00	0.00
6,600.00	5.04	46.06	6,582.87	272.69	282.99	271.75	0.00	0.00	0.00
6,700.00	5.04	46.06	6,682.48	278.78	289.32	277.82	0.00	0.00	0.00
6,800.00	5.04	46.06	6,782.10	284.88	295.64	283.90	0.00	0.00	0.00
			-						
6,900.00	5.04	46.06	6,881.71	290.97	301.97	289.97	0.00	0.00	0.00
7,000.00	5.04	46.06	6,981.32	297.07	308.29	296.05	0.00	0.00	0.00
7,100.00	5.04	46.06	7,080.94	303.16	314.62	302.12	0.00	0.00	0.00
7,200.00	5.04	46.06	7,180.55	309.26	320.94	308.19	0.00	0.00	0.00
7,300.00	5.04	46.06	7,280.16	315.35	327.27	314.27	0.00	0.00	0.00
7,400.00	5.04	46.06	7,379.78	321.45	333.59	320.34	0.00	0.00	0.00
7,500.00	5.04	46.06	7,479.39	327.54	339.92	326.41	0.00	0.00	0.00
7,600.00	5.04	46.06	7,579.00	333.64	346.24	332.49	0.00	0.00	0.00
7,700.00	5.04	46.06	7,678.62	339.73	352.57	338.56	0.00	0.00	0.00
7,800.00	5.04	46.06	7,778.23	345.83	358.89	344.64	0.00	0.00	0.00
7,900.00	5.04	46.06	7,877.84	351.92	365.22	350.71	0.00	0.00	0.00
8,000.00	5.04	46.06	7,977.46	358.02	371.54	356.78	0.00	0.00	0.00
8,100.00	5.04	46.06	8,077.07	364.11	377.87	362.86	0.00	0.00	0.00
8,200.00	5.04	46.06	8,176.69	370.21	384.19	368.93	0.00	0.00	0.00
8,300.00	5.04	46.06	8,276.30	376.30	390.52	375.01	0.00	0.00	0.00
8,400.00	5.04	46.06	8,375.91	382.40	396.84	381.08	0.00	0.00	0.00
8,500.00	5.04	46.06	8,475.53	388.49	403.17	387.15	0.00	0.00	0.00
8,600.00	5.04	46.06	8,575.14	394.59	409.49	393.23	0.00	0.00	0.00
8,700.00	5.04	46.06	8,674.75	400.68	415.82	399.30	0.00	0.00	0.00
8,800.00	5.04	46.06	8,774.37	406.78	422.14	405.37	0.00	0.00	0.00
8,900.00	5.04	46.06	8,873.98	412.87	428.47	411.45	0.00	0.00	0.00
9,000.00	5.04	46.06	8,973.59	418.97	434.79	417.52	0.00	0.00	0.00
9,100.00	5.04	46.06	9,073.21	425.06	441.12	423.60	0.00	0.00	0.00
9,200.00	5.04	46.06	9,172.82	431.16	447.44	429.67	0.00	0.00	0.00
9,300.00	5.04	46.06	9,272.43	437.25	453.77	435.74	0.00	0.00	0.00
9,400.00	5.04	46.06	9,372.05	443.35	460.09	441.82	0.00	0.00	0.00
9,500.00	5.04	46.06	9,471.66	449.44	466.42	447.89	0.00	0.00	0.00
9.600.00	5.04	46.06	9,571.27	455.54	472.74	453.97	0.00	0.00	0.00
9,700.00	5.04	46.06	9,670.89	461.63	479.07	460.04	0.00	0.00	0.00
9,800.00	5.04	46.06	9,770.50	467.73	485.39	466.11	0.00	0.00	0.00
9,830.55	5.04	46.06	9.800.93	469.59	487.33	467.97	0.00	0.00	0.00
9,850.00	6.53	33.59	9,820.28	471.10	488.55	469.48	10.00	7.69	-64.09
9,900.00	11.04	18.86	9,869.69	478.01	491.68	409.48	10.00	9.01	-29.46
9,950.00	15.84	12.78	9.918.31	489.20	494.74	487.56	10.00	9.61	-12.17
10,000.00	20.74	9.49	9,965.77	504.60	497.71	502.94	10.00	9.79	-6.57
10,050.00	25.67	7.42	10,011.71	524.08	500.57	522.41	10.00	9.87	-4.14
10,100.00	30.62	5.98	10,055.79	547.50	503.30	545.82	10.00	9.91	-2.88
10,150.00	35.59	4.91	10,097.66	574.68	505.87	572.99	10.00	9.93	-2.14
10 150 00									

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Planning Report

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.00 10,250.00	40.56 45.54	4.07 3.39	10,137.00 10,173.53	605.41 639.46	508.27 510.49	603.72 637.76	10.00 10.00	9.95 9.96	-1.68 -1.37
10,300.00 10,350.00 10,400.00 10,450.00 10,500.00	50.52 55.51 60.49 65.48 70.47	2.81 2.31 1.87 1.47 1.10	10,206.95 10,237.02 10,263.51 10,286.22 10,304.96	676.57 716.45 758.82 803.33 849.65	512.49 514.27 515.81 517.11 518.15	674.86 714.75 757.10 801.61 847.93	10.00 10.00 10.00 10.00 10.00	9.96 9.97 9.97 9.97 9.98	-1.15 -1.00 -0.89 -0.80 -0.74
10,550.00 10,600.00 10,650.00 10,695.73 10,700.00	75.46 80.45 85.44 90.00 90.00	0.75 0.42 0.10 359.81 359.81	10,319.61 10,330.04 10,336.18 10,338.00 10,338.00	897.44 946.32 995.92 1,041.60 1,045.87	518.92 519.42 519.64 519.60 519.59	895.71 944.59 994.19 1,039.87 1,044.14	10.00 10.00 10.00 10.00 0.00	9.98 9.98 9.98 9.98 0.00	-0.70 -0.67 -0.65 -0.64 0.00
10,800.00 10,900.00 11,000.00 11,100.00 11,200.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	1,145.87 1,245.87 1,345.87 1,445.87 1,545.87	519.25 518.91 518.57 518.23 517.89	1,144.14 1,244.14 1,344.14 1,444.14 1,544.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
11,300.00 11,400.00 11,500.00 11,600.00 11,600.00 11,700.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	1,645.87 1,745.87 1,845.87 1,945.87 2,045.87	517.55 517.21 516.87 516.53 516.20	1,644.14 1,744.14 1,844.14 1,944.14 2,044.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
11,800.00 11,900.00 12,000.00 12,100.00 12,200.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	2,145.87 2,245.87 2,345.87 2,445.87 2,545.86	515.86 515.52 515.18 514.84 514.50	2,144.14 2,244.14 2,344.14 2,444.14 2,544.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
12,300.00 12,400.00 12,500.00 12,600.00 12,700.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	2,645.86 2,745.86 2,845.86 2,945.86 3,045.86	514.16 513.82 513.48 513.14 512.81	2,644.14 2,744.14 2,844.14 2,944.14 3,044.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
12,800.00 12,900.00 13,000.00 13,100.00 13,200.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	3,145.86 3,245.86 3,345.86 3,445.86 3,545.86	512.47 512.13 511.79 511.45 511.11	3,144.14 3,244.14 3,344.14 3,444.14 3,544.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,300.00 13,400.00 13,500.00 13,600.00 13,700.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	3,645.86 3,745.86 3,845.86 3,945.86 4,045.86	510.77 510.43 510.09 509.76 509.42	3,644.14 3,744.14 3,844.14 3,944.14 4,044.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
13,800.00 13,900.00 14,000.00 14,100.00 14,200.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	4,145.86 4,245.86 4,345.85 4,445.85 4,545.85	509.08 508.74 508.40 508.06 507.72	4,144.14 4,244.14 4,344.14 4,444.14 4,544.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
14,300.00 14,400.00 14,500.00 14,600.00 14,700.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	4,645.85 4,745.85 4,845.85 4,945.85 5,045.85	507.38 507.04 506.70 506.37 506.03	4,644.14 4,744.14 4,844.14 4,944.14 5,044.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
14,800.00 14,900.00	90.00 90.00	359.81 359.81	10,338.00 10,338.00	5,145.85 5,245.85	505.69 505.35	5,144.14 5,244.14	0.00 0.00	0.00 0.00	0.00 0.00

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Planning Report

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,000.00 15,100.00 15,200.00	90.00 90.00 90.00	359.81 359.81 359.81	10,338.00 10,338.00 10,338.00	5,345.85 5,445.85 5,545.85	505.01 504.67 504.33	5,344.14 5,444.14 5,544.14	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
15,300.00 15,400.00 15,500.00 15,600.00	90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00	5,645.85 5,745.85 5,845.85 5,945.85	503.99 503.65 503.31 502.98	5,644.14 5,744.14 5,844.14 5,944.14	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
15,700.00 15,800.00 15,900.00 16,000.00 16,100.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	6,045.84 6,145.84 6,245.84 6,345.84 6,445.84	502.64 502.30 501.96 501.62 501.28	6,044.14 6,144.14 6,244.14 6,344.14 6,444.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,200.00 16,300.00 16,400.00 16,500.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	6,545.84 6,645.84 6,745.84 6,845.84	500.94 500.60 500.26 499.92	6,544.14 6,644.14 6,744.14 6,844.14	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,600.00 16,700.00 16,800.00	90.00 90.00 90.00	359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00	6,945.84 6,945.84 7,045.84 7,145.84	499.92 499.59 499.25 498.91	6,944.14 6,944.14 7,044.14 7,144.14	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
16,900.00 17,000.00 17,100.00 17,200.00	90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00	7,245.84 7,345.84 7,445.84 7,545.84	498.57 498.23 497.89 497.55	7,244.14 7,344.14 7,444.14 7,544.14	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
17,300.00 17,400.00 17,500.00 17,600.00 17,700.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	7,645.84 7,745.84 7,845.83 7,945.83 8,045.83	497.21 496.87 496.54 496.20 495.86	7,644.14 7,744.14 7,844.14 7,944.14 8,044.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
17,800.00 17,900.00 18,000.00 18,100.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	8,145.83 8,245.83 8,345.83 8,445.83	495.52 495.18 494.84 494.50	8,144.14 8,244.14 8,344.14 8,444.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,200.00 18,300.00 18,400.00 18,500.00	90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00	8,545.83 8,645.83 8,745.83 8,845.83	494.16 493.82 493.48 493.15	8,544.14 8,644.14 8,744.14 8,844.14	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
18,600.00 18,700.00 18,800.00 18,900.00	90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00	8,945.83 9,045.83 9,145.83 9,245.83	492.81 492.47 492.13 491.79	8,944.14 9,044.14 9,144.14 9.244.14	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
19,000.00 19,100.00 19,200.00 19,300.00	90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00	9,345.83 9,445.83 9,545.82 9,645.82	491.45 491.11 490.77 490.43	9,344.14 9,444.14 9,544.14 9,644.14	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
19,400.00 19,500.00 19,600.00 19,700.00	90.00 90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00 10,338.00	9,745.82 9,845.82 9,945.82 10,045.82	490.09 489.76 489.42 489.08	9,744.14 9,844.14 9,944.14 10,044.14	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,800.00 19,900.00 20,000.00 20,100.00	90.00 90.00 90.00 90.00	359.81 359.81 359.81 359.81	10,338.00 10,338.00 10,338.00 10,338.00	10,145.82 10,245.82 10,345.82 10,445.82	488.74 488.40 488.06 487.72	10,144.14 10,244.14 10,344.14 10,444.14	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
20,200.00 20,300.00 09/24/20 10:25:51AA	90.00 90.00	359.81 359.81	10,338.00 10,338.00	10,545.82 10,645.82	487.38 487.04	10,544.14 10,644.14	0.00 0.00	0.00	0.00 0.00 IPASS 5000 1 Build 74

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Planning Report

Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well #122H GL @ 3054.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	GL @ 3054.00usft
Site: Well:	Corral Canyon 15-10 Fed #122H	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore:	Wellbore #1	Survey Calculation Method.	
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,400.00	90.00	359.81	10,338.00	10,745.82	486.70	10,744.14	0.00	0.00	0.00
20,500.00	90.00	359.81	10,338.00	10,845.82	486.37	10,844.14	0.00	0.00	0.00
20,600.00	90.00	359.81	10,338.00	10,945.82	486.03	10,944.14	0.00	0.00	0.00
20,654.89	90.00	359.81	10,338.00	11,000.70	485.84	10,999.03	0.00	0.00	0.00
20,700.00	90.00	359.81	10,338.00	11,045.82	485.69	11,044.14	0.00	0.00	0.00
20,784.89	90.00	359.81	10,338.00	11,130.70	485.40	11,129.03	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target I - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CC15-10 #122H SHL: - plan hits target ce - Point	0.00 nter	0.00	0.00	0.00	0.00	407,803.60	609,919.30	32.1206707	-103.9782841
CC15-10 #122H PBH - plan hits target ce - Point	0.00 nter	0.00	10,338.00	11,130.70	485.40	418,934.30	610,404.70	32.1512644	-103.9765971
CC15-10 #122H LTP - plan misses target - Point	0.00 t center by		10,338.00 20654.89u	11,000.70 sft MD (1033	485.40 8.00 TVD, 1	418,804.30 1000.70 N, 485.8	610,404.70 34 E)	32.1509070	-103.9765985
CC15-10 #122H FTP/ - plan hits target ce - Point	0.00 nter	0.00	10,338.00	1,041.60	519.60	408,845.20	610,438.90	32.1235294	-103.9765946

Received by OCD: 6/10/2023 6:31:33 PM



Planning Report

Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well#122H GL @ 3054.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	GL @ 3054.00usft
Site:	Corral Canyon 15-10 Fed	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
619.00	619.00	Rustler			
854.00	854.00	Salado (Top of Salt)			
2,882.76	2,880.00	Base of Salt			
3,087.55	3,084.00	Delaware			
3,132.73	3,129.00	Bell Canyon			
3,961.93	3,955.00	Cherry Canyon			
5,560.11	5,547.00	Brushy Canyon			
6,605.15	6,588.00	Basal Brushy Canyon			
6,840.06	6,822.00	Bone Spring			
6,866.16	6,848.00	Bone Spring			
6,881.22	6,863.00	Bone Spring Lime			
7,014.73	6,996.00	Avalon			
7,461.46	7,441.00	Avalon Lower			
7,747.57	7,726.00	1st Bone Lime			
7,793.74	7,772.00	1st Bone Sand			
8,095.91	8,073.00	2nd Bone Lime			
8,627.97	8,603.00	2nd Bone Sand			
8,895.00	8,869.00	3rd Bone Lime			
9,256.40	9,229.00	Harkey Sand			
9,291.53	9,264.00	3rd Bone Shale			
9,506.36	9,478.00	3rd Bone Shale Base			
9,551.54	9,523.00	3rd Bone Shale Lower			
9,718.18	9,689.00	3rd Bone Sand			
9,912.57	9,882.00	Warwink Sand			
10,004.53	9,970.00	Red Hills Sand			
10,084.11	10,042.00	Wolfcamp			
10,114.30	10,068.00	Wolfcamp X			
10,197.37	10,135.00	Wolfcamp Y			
10,271.06	10,188.00	Wolfcamp A			
10,695.73	10,338.00	LP			

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Corral Canyon 15-10 Fed 122H
LOCATION:	Sec 22-25S-29E-NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	C Yes	💿 No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	C Low	C Medium	💽 High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	Conventional	Multibowl	C Both
Other	4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	Water Disposal	COM	🗖 Unit

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The **11-3/4** inch surface casing shall be set at approximately 400 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

Page 1 of 7

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. 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.

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

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

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

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

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 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 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

Page 6 of 7

does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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



HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

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

Characteristics of H₂S and SO₂

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

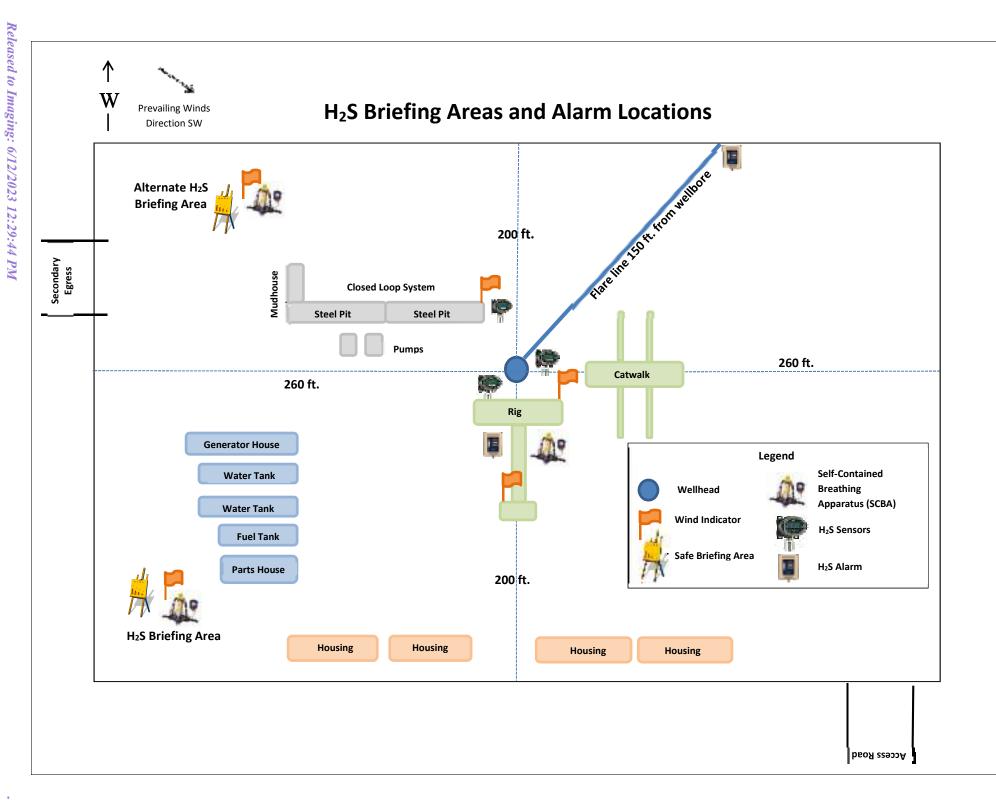
Contacting Authorities

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

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CARLSBAD OFFICE – EDDY & LEA COUNTIES

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



Well Name: CORRAL CANYON 15-10 FED

Well Number: 122H

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

FACILITY **Disposal type description:**

Disposal location description: R360 Environmental Solutions, 4507 W Carlsbad HWY, Hobbs, NM 88240, 575-393-1079

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL **Disposal location ownership: COMMERCIAL** FACILITY Disposal type description:

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

Waste type: GARBAGE

Waste content description: Garbage, junk and non-flammable waste materials

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

Safe containmant attachment:

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

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and safely dispose garbage, junk and non-flammable waste materials.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit width (ft.) Reserve pit length (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 15-10 FED

Well Number: 122H

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 Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

Corral_Canyon__15_10_122H_Layout_20201110154253.pdf

CC_15_10_Fed_122H_RL_20201110154321.pdf

Comments: There are 4 multi-well pads in the Corral Canyon 15-10 lease anticipated. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East: 1. Pad 1 is a 5-well pad expected to be 520x400. 2. Pad 2 is a 5-well pad expected to be 520x400. 3. Pad 3 is a 5-well pad expected to be 520x400. 4. Pad 4 is a 5-well pad expected to be 520x400.

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	226072
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

CONDITIONS		
Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	6/12/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/12/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/12/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	6/12/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	6/12/2023

Action 226072

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