Form 3160-3 (June 2015)					APPRO o. 1004-0	0137		
UNITED STATE DEPARTMENT OF THE I				5. Lease Serial No.				
BUREAU OF LAND MAN				NMNM33955				
APPLICATION FOR PERMIT TO D	ORILL OR	REENTER		6. If Indian, Allotee or Tribe Name				
	EENTER			7. If Unit or CA Ag BIG EDDY / NMN	M 0682	294X		
		✔ Multiple Zone		8. Lease Name and	Well No.			
	- 1			BIG EDDY UNIT I	BB HUX [333]			
				201H		1		
2. Name of Operator XTO PERMIAN OPERATING LLC [373075]	2h Dhana N	la <i>Guala</i> da anazarea	1-)			5-50723		
 Address 6401 Holiday Hill Road, Bldg 5, Midland, TX 79707 	(432) 682-8	No. (include area coa 3873	<i>(e)</i>	10. Field and Pool, SALT LAKE BONE	E SPRIN	ratory [53560] IG		
4. Location of Well (Report location clearly and in accordance	with any State	requirements.*)		11. Sec., T. R. M. of		d Survey or Area		
At surface NWSW / 1325 FSL / 520 FWL / LAT 32.555				SEC 22/T20S/R32	E/NMP			
At proposed prod. zone LOT 2 / 2640 FNL / 100 FWL / L	AT 32.55888	8 / LONG -103.813	996					
14. Distance in miles and direction from nearest town or post off 24.38 miles	fice*			12. County or Parisl EDDY	h	13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft.	16. No of ad	cres in lease	17. Spaci 479.64	7. Spacing Unit dedicated to this well479.64				
(Also to nearest drig. unit line, if any) 18. Distance from proposed location*	19. Propose	d Depth	20 BI M	BIA Bond No. in file				
to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet				0B000050				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3525 feet	22. Approxi 12/01/2021	mate date work will	start*	23. Estimated durat	ion			
3525 leet	24. Attac			60 days				
				× 1 11 ×5				
The following, completed in accordance with the requirements o (as applicable)	I Onshore Oil	and Gas Order No.	I, and the F	lydraulic Fracturing r	ule per 4	3 CFR 3162.3-3		
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the Item 20 above).	e operation	s unless covered by an	n existing	bond on file (see		
 A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office 		5. Operator certific		mation and/or plans as	may be r	requested by the		
25. Signature		(Printed/Typed)			Date			
(Electronic Submission)	KELL	Y KARDOS / Ph: (432) 682-	8873	11/24/2	2020		
Title Regulatory Coordinator								
Approved by (Signature) (Electronic Submission)		(Printed/Typed) (LAYTON / Ph: (5	75) 234-59	959	Date 07/01/2	2022		
Title Assistant Field Manager Lands & Minerals	Office	ad Field Office						
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon.			nose rights	in the subject lease w	hich wou	ld entitle the		
Conditions of approval, if any, are attached.	aalea it a anime	. fan anu nanan luna						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements					iny depar	tment or agency		
NGMP Rec 09/28/2022					K >	7		
		CONDIT	IONS	1(0/07/2	2022		
SL	VEN WI	LH CONDI	I VIII					
(Continued on page 2)		TH CONDIT		*(Ins	structio	ns on page 2)		

Approval Date: 07/01/2022

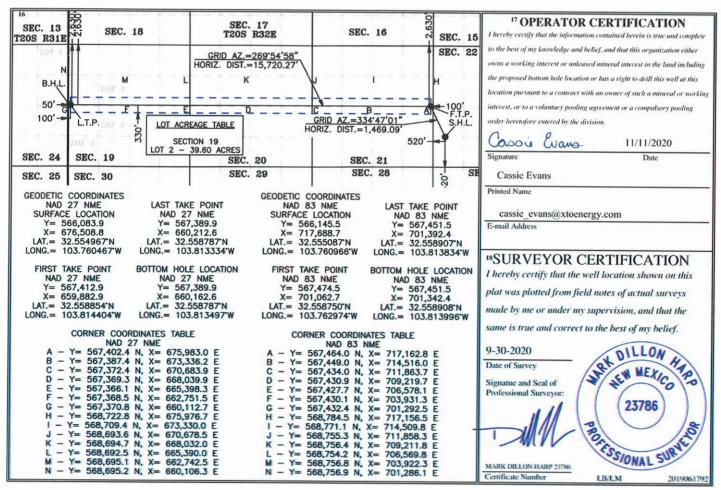
Diminist		
District[] H6251N.Ifrench[Dr., Hobbs, NNI/88240	State of New Mexico	Form (C-110)2
Phone:((575)/39346161 Eax:((578)/39340720 District	Energy, Minerals & Natural Resources Department	Revised August 1, 2011
8011 S. (First/St., Artesia, NW188210	OIL CONSERVATION DIVISION	Submit one copy to appropriate
Phone: ((\$75) 748-1283 Fax: ((\$75) 748-9720	OIL CONSERVATION DIVISION	
District III 1000 Rio Brazos Road, Aztec, NM 87410	1220 South St. Francis Dr.	District Office
Phone: ((505)) 3344-6178 Eax: ((505) 334-6170	Santa Fe, NM 87505	AMENDED REPORT
District IN	Santa I C, INMI 67505	

1220 S. St. Francis Dr., Santa Fe, NNI 87505 Phone: (C505) 476-3460 Fax: (C505) 476-3462

WELL LOCATION AND ACREAGE DEDICATION PLAT

u ₄	API Numbe	30-025-	50723	² Pool Code		³ Pool Name							
	30-025- 53560 Salt Lake;Bone Spring												
⁴ Property C					⁵ Property	Name			⁶ Well Number				
333143	43 BIG EDDY UNIT BB HUX									201H			
7 OGRID					Name				⁹ Elevation				
373075 XTO PERMIAN OPERATING, LLC.									3,525				
¹⁰ Surface Location													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County			
М	22	20 S	32 E		1,320	SOUTH	520	WEST		LEA			
			и Во	ttom Hol	e Location If	Different From	n Surface						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County			
2	19	20 S	32 E		2,630	NORTH	50	WE	ST	LEA			
12 Dedicated Acres	13 Joint of	Infill ¹⁴ C	onsolidation	Code 15 Or	der No.								
479.60													

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.



P:\PROJECTS\2019\2019061792-XTO-BIG_EDDY_UNIT_BB_HUX_201H-LEA\DWG\2019061792-XTO-BIG_EDDY_UNIT_BB_HUX_201H_C-102:dwg

	6:41:22 AM					Page	
	Energ		of New Mexico Natural Resource	s Department	Submit Electronically Via E-permitting		
		1220 Soi	ervation Divisio 1th St. Francis Di Fe, NM 87505				
	NAT	URAL GAS	S MANAGEN	IENT PLAN			
This Natural Gas Managen	nent Plan must b	be submitted with	each Application fo	r Permit to Drill (AP	PD) for a new or	recompleted we	
			<u>– Plan Descritztive May 25, 2021</u>	iption			
I. Operator: _XTO Permi	ian Operating, L	.LC	00	GRID: _373075	Date: _07/	/01/2022	
II. Type: 🛛 Original 🗆 A	Amendment due	to 🗆 19.15.27.9.	D(6)(a) NMAC 🗆 1	9.15.27.9.D(6)(b) N	MAC 🗆 Other.		
If Other, please describe: _							
III. Well(s): Provide the for be recompleted from a sing				ell or set of wells pro	pposed to be dril	led or proposed	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		
					Gas MCF/D	Anticipated Produced Water BBL/	
Big Eddy Unit BB Hux 201H	30-025-50723	M-22-20S-32E	1320'FSL & 520'FW		Gas MCF/D 2700	Produced	
Big Eddy Unit BB Hux 201H	30-025-50723	M-22-20S-32E	1320'FSL & 520'FW			Produced Water BBL/	
Big Eddy Unit BB Hux 201H	<u>30-025-50723</u>	M-22-20S-32E	1320'FSL & 520'FW			Produced Water BBL/	
Big Eddy Unit BB Hux 201H	<u>30-025-50723</u>	M-22-20S-32E	1320'FSL & 520'FW			Produced Water BBL/	
				L 1500		Produced Water BBL/	
IV. Central Delivery Poir	nt Name: _BEU	29 CTB	[See 19.15.27.9(D)	L 1500	2700	Produced Water BBL/1 3000	
	nt Name: _BEU Provide the foll	29 CTB	[See 19.15.27.9(D) n for each new or re	L 1500	2700	Produced Water BBL/ 3000	

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Big Eddy Unit BB Hux 201H 30-	025-50723	TBD	TBD	TBD	TBD	TBD

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

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

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

Section 2 – Enhanced Plan <u>EFFECTIVE APRIL 1, 2022</u>

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. \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: Stephanie Rabadue
Printed Name: Stephanie Rabadue
Title: Regulatory Supervisor
E-mail Address: <u>Stephanie.rabadue@exxonmobil.com</u>
Date: 09/27/2022
Phone: 432-620-6714
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

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

VII. Operational Practices:

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

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

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

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

VIII. Best Management Practices:

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



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

Drilling Plan Data	a Report
	A State of the second
Submission Date: 11/24/2020	Highlighted data reflects the most recent changes
Well Number: 201H	

Well Name: BIG EDDY UNIT BB HUX

Operator Name: XTO PERMIAN OPERATING LLC

Well Type: OIL WELL

APD ID: 10400065142

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Formation Name Elevation True Vertical Measured Depth Lithologies		Mineral Resources	Producing Formatio		
1141850	PERMIAN	35	35 0 0 OTHER : Alluvium		NONE	N	
1141841	RUSTLER -917 952 952 SILTSTC		SILTSTONE	USEABLE WATER	N		
1141842	TOP SALT	-1192	1227	1227	SALT	POTASH	N
1141843	BASE OF SALT	-2537	2572	2572	SALT	POTASH	N
1141859	CAPITAN REEF	-3190	3225	3225	LIMESTONE	USEABLE WATER	N
1141839	DELAWARE	-4684	4719	4719	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
1141840	BRUSHY CANYON	-6162	6197	6197	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
1141855	BONE SPRING	-7687	7722	7722	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M

Rating Depth: 1080

Equipment: The blow out preventer equipment (BOP) for this well consists of a 21-1/4 minimum 2M Hydril and a 21-1/4 minimum 2M Double Ram BOP.

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 manufacturers 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. Permanent Wellhead GE RSH Multibowl System A. Starting Head: 13-5/8 5M top flange x 13-3/8 SOW bottom B. Tubing Head: 13-5/8 5M bottom flange x 7-1/16 10M top flange Wellhead will be installed by manufacturers representatives. Manufacturer will monitor welding process to ensure appropriate temperature of seal. Operator will test the 9-5/8" casing per BLM Onshore Order 2 Wellhead Manufacturer representative will not be present for BOP test plug installation. Approval to utilize a spudder rig to pre-set surface casing per the attached Description of Operations. Batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. ONLY test broken pressure seals on the BOP equipment per the attached procedure. A variance is requested to cement offline

Well Name: BIG EDDY UNIT BB HUX

Well Number: 201H

Page 10 of 58

for the surface and intermediate casing strings.

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up, the BOP test will be limited to 2,000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 2M BOP diagram is attached. Blind rams will be function tested each trip, pipe rams will be function tested each day.

Choke Diagram Attachment:

BEU_BB_2MCM_20201112125946.pdf

BOP Diagram Attachment:

BEU_BB_2MBOP_20201112130001.pdf

Pressure Rating (PSI): 3M

Rating Depth: 8142

Equipment: The blow out preventer equipment (BOP) will consist of a 13-5/8 minimum 5M Hydril and a 13-5/8 minimum 3M 3-Ram BOP. MASP should not exceed 2006 psi. **Reguesting 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. Permanent Wellhead – GE RSH Multibowl System A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange Wellhead will be installed by manufacturer's representatives. Manufacturer will monitor welding process to ensure appropriate temperature of seal. Operator will test the 9-5/8" casing per BLM Onshore Order 2 Wellhead Manufacturer representative will not be present for BOP test plug installation. Approval to utilize a spudder rig to pre-set surface casing per the attached Description of Operations. Batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. ONLY test broken pressure seals on the BOP equipment per the attached procedure. A variance is requested to cement offline for the surface and intermediate casing string strings.

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up, the BOP test will be limited to 3,000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagram is attached. Blind rams will be function tested each trip, pipe rams will be function tested each day.

Choke Diagram Attachment:

BEU_BB_3MCM_20201112130027.pdf

BOP Diagram Attachment:

BEU_BB_3MBOP_20201112130047.pdf

Well Name: BIG EDDY UNIT BB HUX

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Section 3 - Casing

							r															
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	24	18.625	NEW	API	Ν	0	1080	0	1080	3525	2445	1080	H-40	87.5	ST&C	1.27	2	DRY	5.92	DRY	5.92
2	INTERMED IATE	17.5	13.375	NEW	API	N	0	2620	0	2620		905	2620	J-55	54.5	ST&C	1.37	2.44	DRY	3.6	DRY	3.6
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4820	0	4820		-1295	4820	J-55	36	LT&C	1.77	1.64	DRY	2.61	DRY	2.61
4	PRODUCTI ON	8.75	5.5	NEW	API	N	0	24339	0	24339	3526	- 20814	24339	P- 110	17	BUTT	1.9	1.12	DRY	2.27	DRY	2.27

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Hux_201H_csg_20201112130615.pdf

Well Name: BIG EDDY UNIT BB HUX

Well Number: 201H

Casing Attachments

-

_

-
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Hux_201H_csg_20201112130812.pdf
Casing ID: 3 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Hux_201H_csg_20201112131031.pdf
Casing ID: 4 String PRODUCTION
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Hux_201H_csg_20201112131138.pdf

Section 4 - Cement

.

Well Name: BIG EDDY UNIT BB HUX

Well Number: 201H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1080	1510	1.87	12.9	2992	100	EconoCem- HLTRRC	None
SURFACE	Tail				590	1.35	14.8	837	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	2620	1510	1.87	12.9	2992	100	EconoCem- HLTRRC	none
INTERMEDIATE	Tail				590	1.35	14.8	837	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	3150	2120	3150	220	1.88	12.9	188	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				470	1.33	14.8	305.9	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead		3150	4820	170	1.88	12.9	470	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				230	1.33	14.8	625.1	100	Halcem-C	2% CaCl
PRODUCTION	Lead		2420	2433 9	580	2.69	10.5	1318. 1	30	NeoCem	none
PRODUCTION	Tail				3190	1.61	13.2	5135. 9	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 and 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

Well Name: BIG EDDY UNIT BB HUX

Well Number: 201H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1080	OTHER : FW/Native	8.3	9.5							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
4820	8142	OTHER : FW / OBM / Cut Brine / Polymer	9	9.3							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
1080	2620	OTHER : Brine/Gel Sweeps	9.8	10.2							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
2620	4820	OTHER : FW/Cut Brine / Poly-Sweeps	8.3	9							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system

Well Name: BIG EDDY UNIT BB HUX

Well Number: 201H

Section 6 - Test, Logging, Coring

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

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

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

CEMENT BOND LOG, COMPENSATED NEUTRON LOG, DIRECTIONAL SURVEY, GAMMA RAY LOG,

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3937

Anticipated Surface Pressure: 2145

Anticipated Bottom Hole Temperature(F): 140

Anticipated abnormal pressures, temperatures, or potential geologic hazards? YES

Describe:

Potential loss of circulation through the Capitan Reef.

Contingency Plans geoharzards description:

The necessary mud products for weight addition and fluid loss control will be on location at all times. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

BEU_BB_H2S_Dia_20201112132530.pdf BEU_BB_H2S_Plan_20201112132550.pdf Page 15 of 58

Well Name: BIG EDDY UNIT BB HUX

Well Number: 201H

Proposed horizontal/directional/multi-lateral plan submission:

Section 8 - Other Information

Big_Eddy_Unit_BB_HUX__20201112132631

Other proposed operations facets description:

The surface fresh water sands will be protected by setting 18-5/8 inch casing @ 1160' (200' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 2770' and circulating cement to surface. The Capitan Reef zone will be isolated by setting 9-5/8 inch casing at 4850'. An 8-3/4 inch curve and 8-1/2 inch lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back up to the 13-3/8 inch casing shoe.

XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

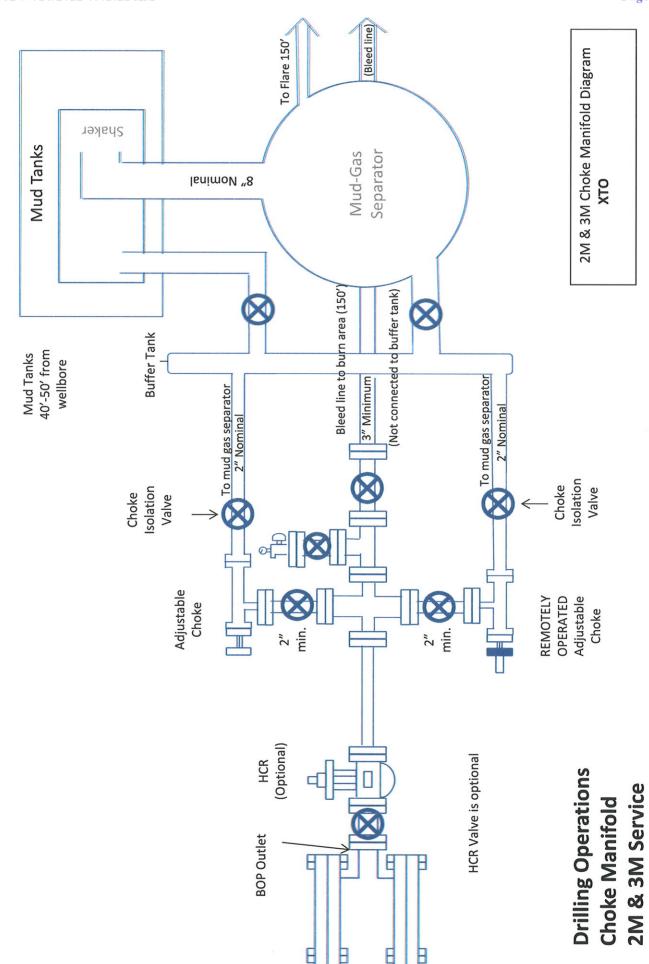
13-3/8" & 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.
5-1/2 tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

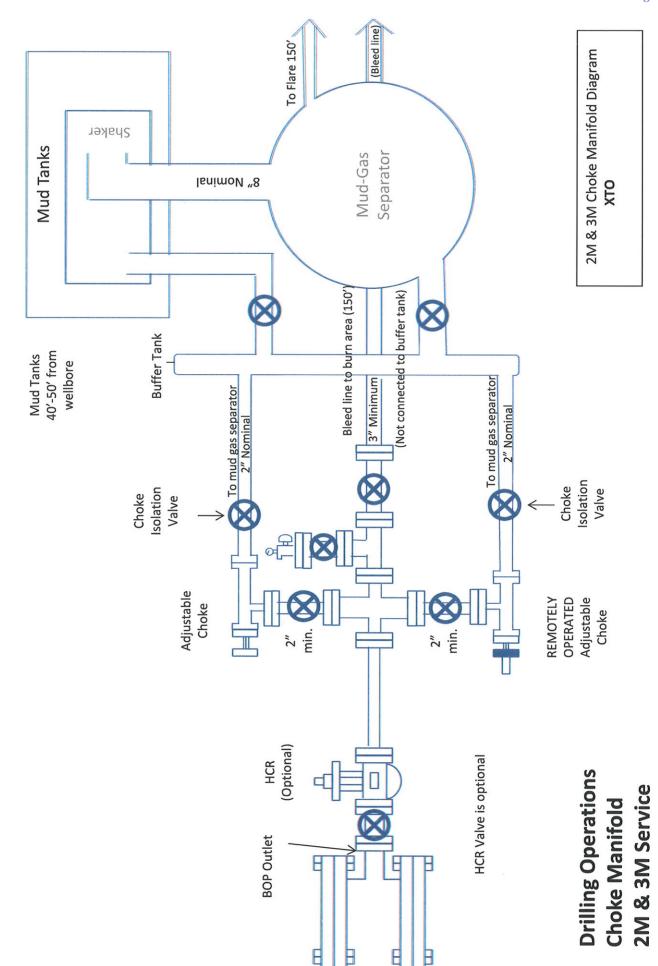
Other proposed operations facets attachment:

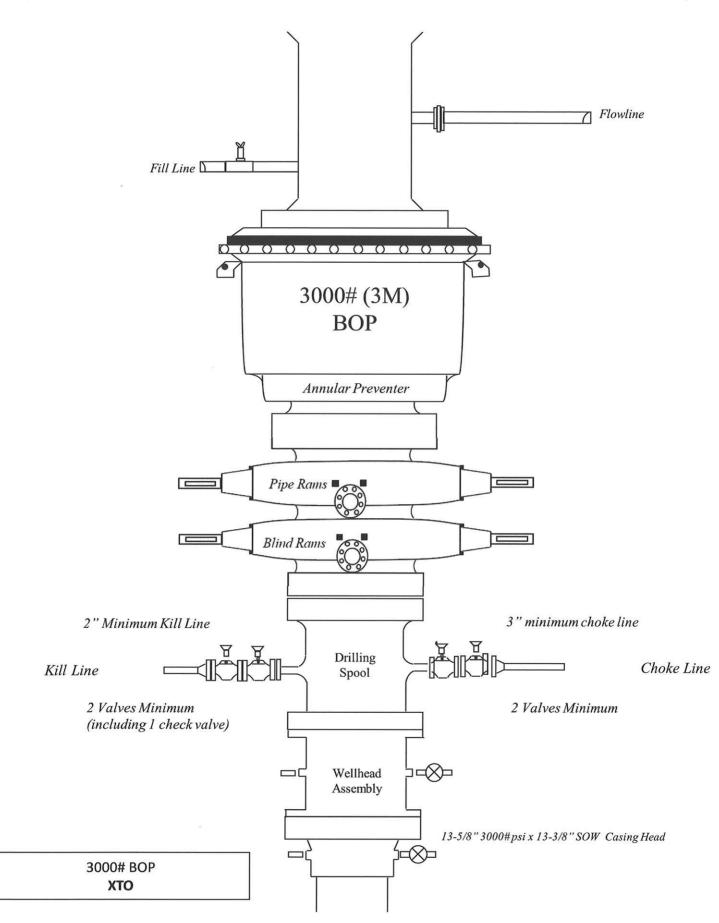
Hux_GCP_20201112132652.pdf

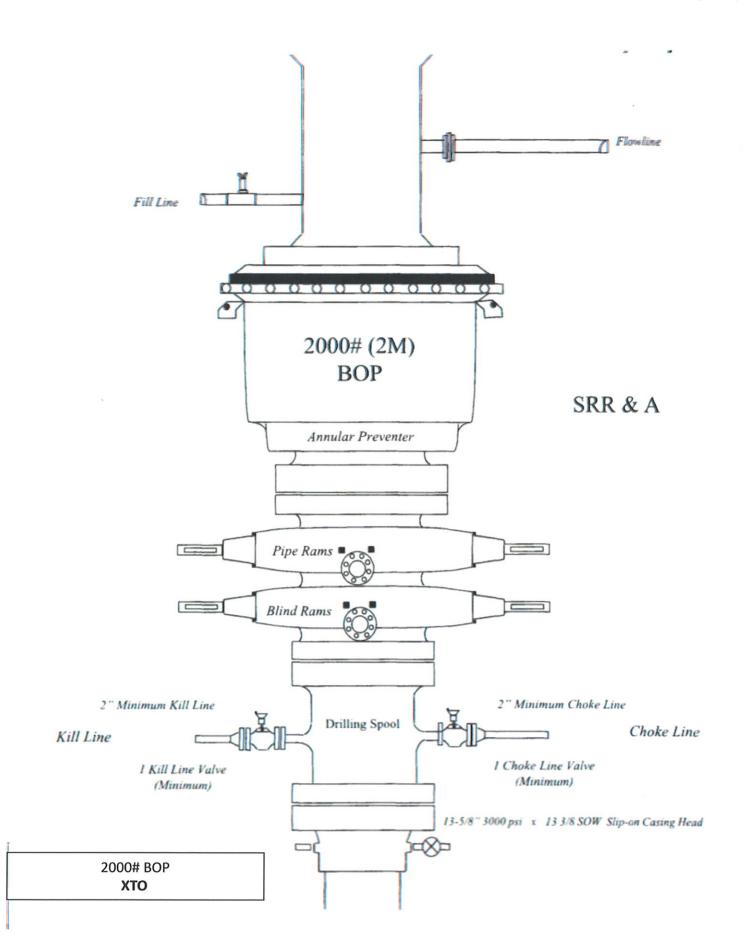
Other Variance attachment:

BEU_BB_FH_20201112132716.pdf BEU_BB_Spudder_20201112132744.pdf BEU_BB_OCV_20201112132814.pdf BEU_BB_MBS_20201112132832.pdf BEU_BB_BOP_BTV_20201112132917.pdf









Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 1080'	18-5/8"	87.5#	STC	H-40	New	2.00	1.27	5.92
17-1/2"	0' - 2620'	13-3/8"	54.5#	STC	J-55	New	2.44	1.37	3.60
12-1/4"	0' - 4820'	9-5/8"	36#	LTC	J-55	New	1.64	1.77	2.61
8-3/4" x 8- 1/2"	0' – 24339'	5-1/2"	17#	BTC	P-110	New	1.12	1.90	2.27

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 13-3/8" & 9-5/8" 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

WELLHEAD:

Temporary Wellhead

- 18-5/8" SOW bottom x 21-1/4" 2M top flange.
 - Permanent Wellhead GE RSH Multibowl System
- A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom
- B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange
 - Wellhead will be installed by manufacturer's representatives.
 - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - Operator will test the 9-5/8" casing per BLM Onshore Order 2
 - Wellhead manufacturer representative will not be present for BOP test plug installation



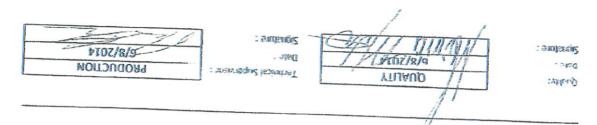
CORPUS CHRISTI, TEXAS 78405 134 44TH STREET X3T-UG GATES E & S NORTH AMERICA, INC

moo.esiseg.www WEB: moo.esteg@s&sqro :JIAME 361-887-0812 :XA7 PHONE: 361-887-9807

GRADE D PRESSURE TEST CERTIFICATE

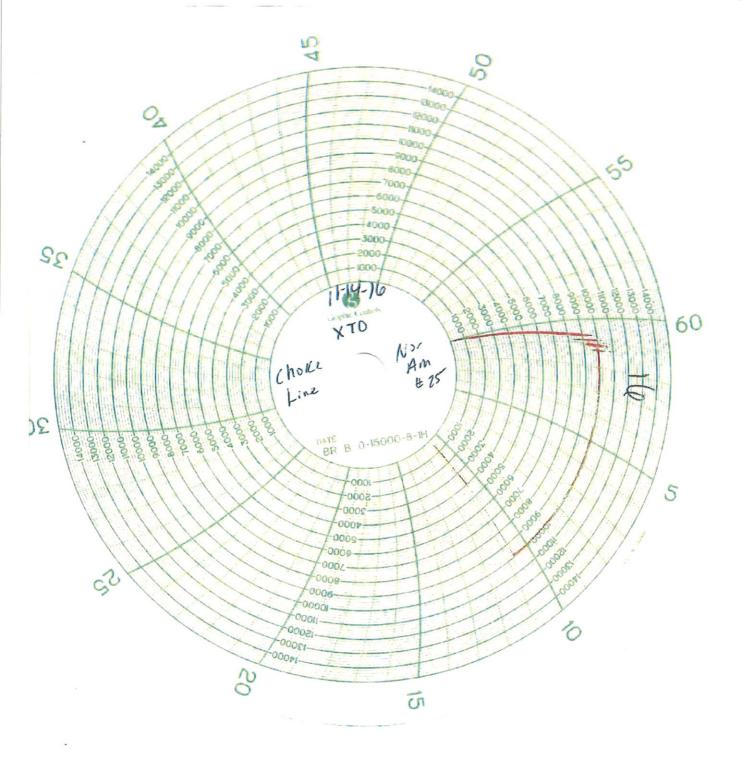
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VHNON	Created By:	, 60210Ż	Province No. :
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VHNON	Created By:	200106191201 001200 20010099 2002105	

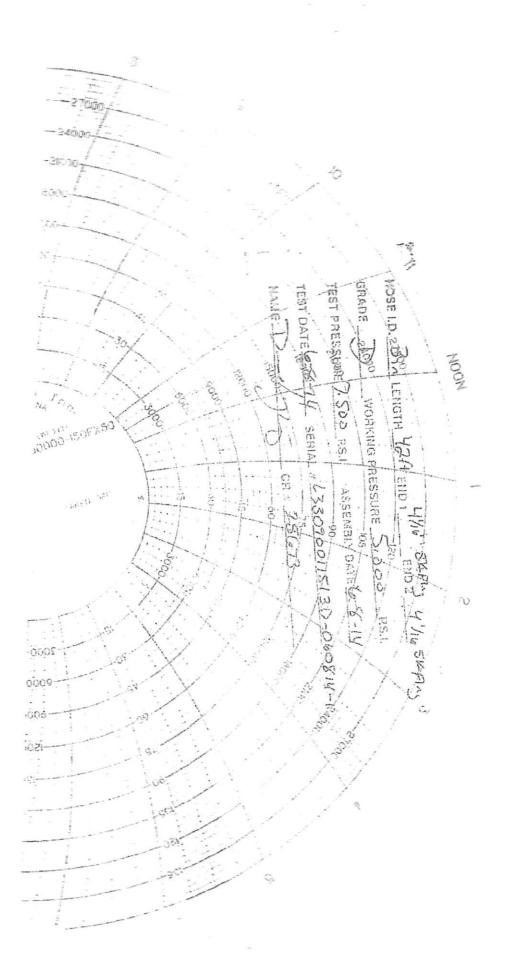
minimum of 2.5 times the working pressure per Table 9. to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the hydrostatic test per API Spec 7K/QL, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 Gates Oilfield Roughneck Agreement/Specification requirements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



COLUMN BIC - OI BEAND 5

15d 005'2





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

XTO Permian Operating, LLC Offline Cementing Variance Request

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

1. Cement Program

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

2. Offline Cementing Procedure

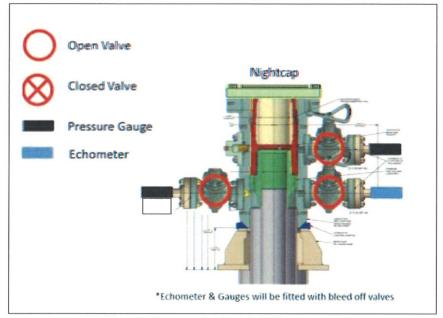
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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



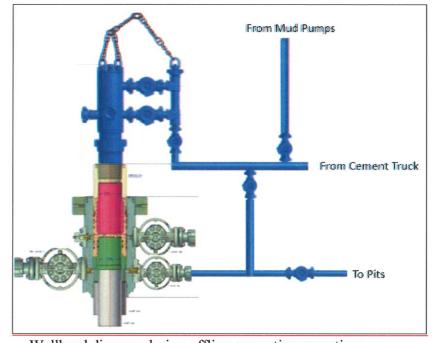
Annular packoff with both external and internal seals

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

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

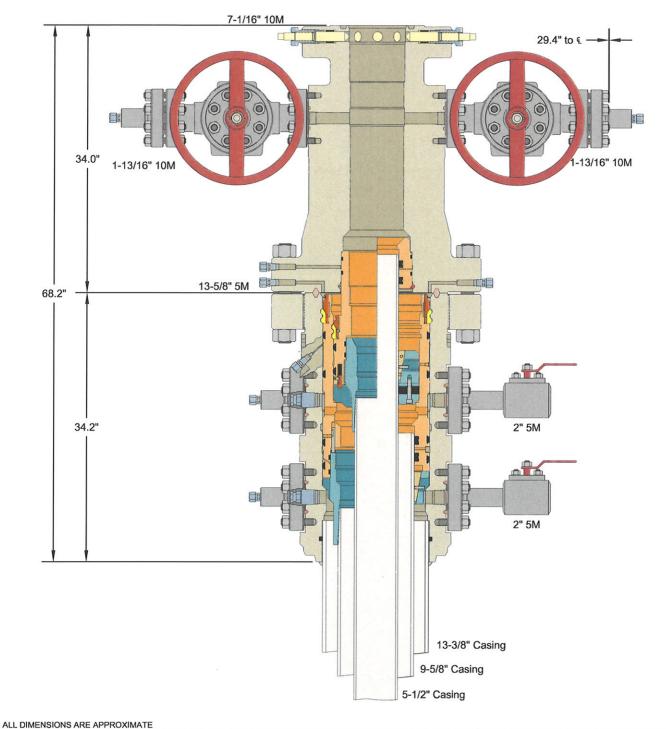


XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during offline cementing operations

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





This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.	хто	D ENERGY	INC.
13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead	DRAWN	VJK	16FEB17
	APPRV	KN	16FEB17
Assembly, With T-EBS-F Tubing Head	FOR REFERENCE	100	12842

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

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

Background

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

Supporting Documentation

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



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

	Pressure Test-Low	Pressure Test—High Pressure					
Component to be Pressure Tested	Pressure** psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket				
Annular preventer ⁶	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 ^{td}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP				
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP				
Choke manifold—upstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP				
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or h 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	vessure shall not decrease below the allest OD chill pipe to be used in well					
	from one wellhead to another within when the integrity of a pressure set	n the 21 days, pressure testing is req	uired for pressure-containing an				

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

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

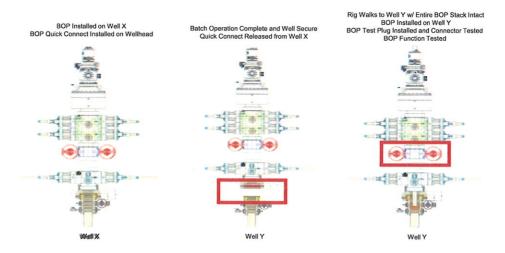
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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

Procedures

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

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

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



Summary

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

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

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

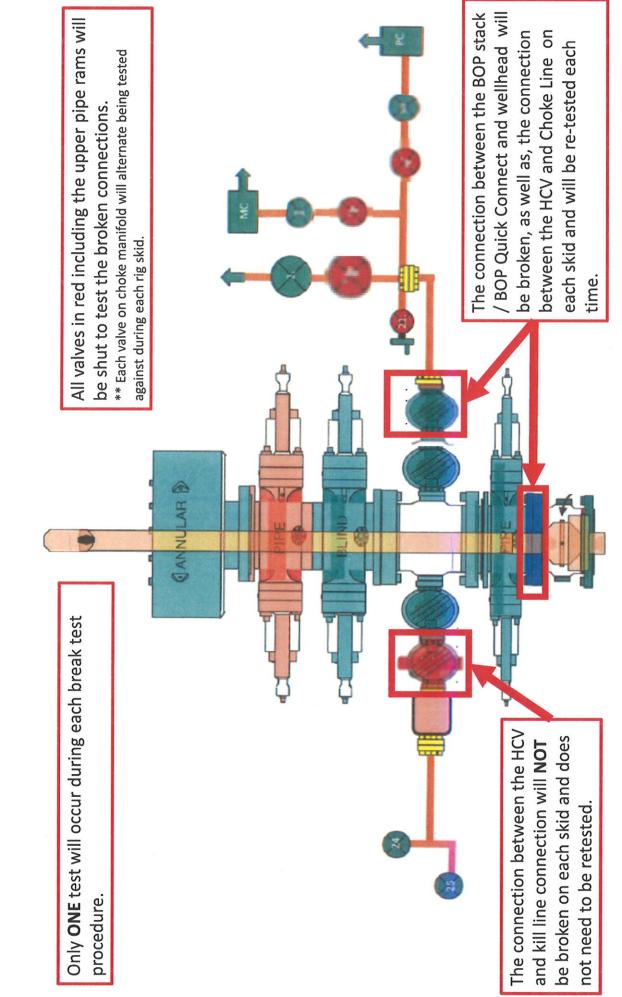
1. After a full BOP test is conducted on the first well on the pad.

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

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

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







XTO Energy

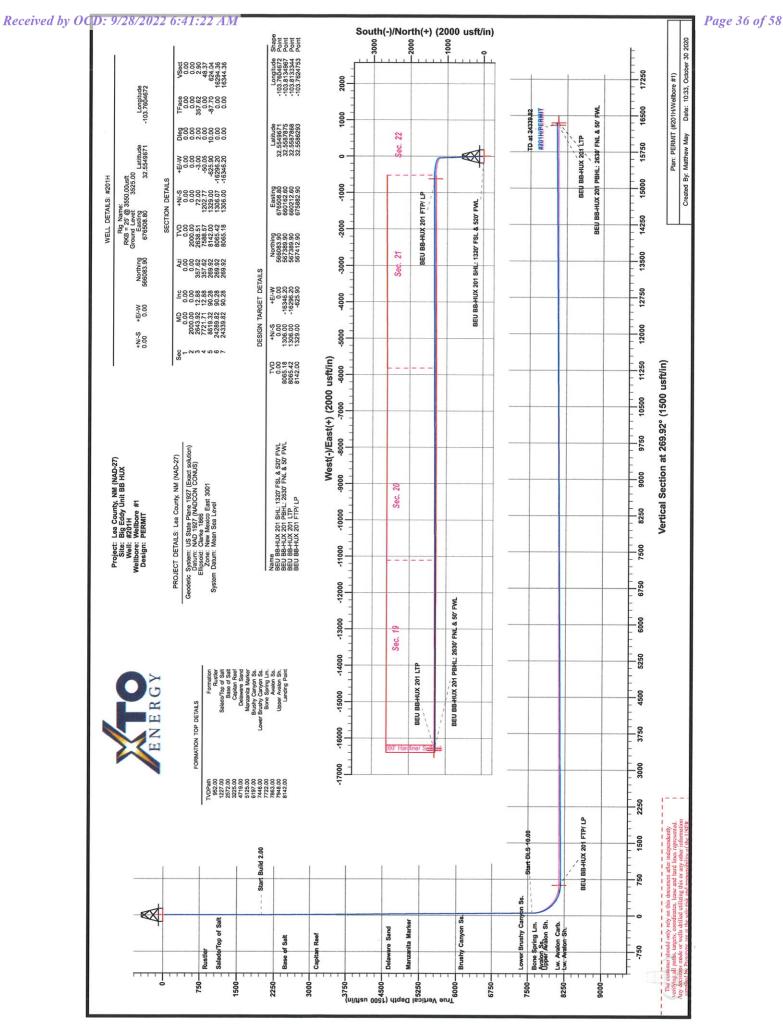
Lea County, NM (NAD-27) Big Eddy Unit BB HUX #201H

Wellbore #1

Plan: PERMIT

Standard Planning Report

30 October, 2020



Released to Imaging: 10/7/2022 11:41:16 AM

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

District IV

District State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 Phone: ((575)) 393-6161 (Fax: ((575)) 393-0720 Revised August 1, 2011 Energy, Minerals & Natural Resources Department District II 8111 S. First St., Artesia, NM 88200 Submit one copy to appropriate **OIL CONSERVATION DIVISION** Phone: ((575)) 748-11283 [Eax: ((575)) 748-9720 District Office District III 1220 South St. Francis Dr. 1000 Rio Brazos Road, Aztec, NM 87410 Phone: ((505) 334-6178 Fax: ((505) 334-6170 Santa Fe, NM 87505

AMENDED REPORT

Form C-102

	WELL LOCATION AND ACREAGE DEDICATION PLAT											
1	API Numbe	r		² Pool Code	8		³ Pool Na	me				
	30-025-											
⁴ Property (Code		_		5 Property	Name			61	Well Number		
					BIG EDDY UN	NIT BB HUX				201H		
7 OGRID	No.		⁸ Operator Name ⁹ Elevation									
373075	5		XTO PERMIAN OPERATING, LLC. 3,525'									
	¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	e North/South line	Feet from the	East	/West line	County		
М	22	20 S	32 E		1,320	SOUTH	520	WE	ST	LEA		
			" Bot	ttom Hol	e Location J	If Different Fron	1 Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	e North/South line	Feet from the	East	/West line	County		
2	19	20 S	32 E	32 E 2,630 NORTH 50 WES					ST	LEA		
¹² Dedicated Acres	s ¹³ Joint of	r Infill ¹⁴ Cor	nsolidation (Code 15 Ore	der No.							

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

¹⁶ SEC. 13 T20S R31E	-2:838	IC.	18	SEC. T20S		SEC.	16 29	SEC.		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either
LOT 1 -	ÎÎ			GRID AZ.= HORIZ. DIST.=	269*54'58" 15,720.27'		Î	SEC.	22	owns a working interest or unleased mineral interest in the land including
B.H,L.		М	L	к		J.	1	н		the proposed bottom hole location or has a right to drill this well at this
	1.07	2				<u> </u>				location pursuant to a contract with an owner of such a mineral or working
50'-G	A	F	+ E	D		CE	A	-100' F.T.	Р.	interest, or to a voluntary pooling agreement or a compulsory pooling
100'->	L.T.P.107		LOT ACR	EAGE TABLE	H	GRID AZ.=334 ORIZ. DIST.=1	469.09	S.H		order heretofore entered by the division.
	107 1		OPP SECT	TION 19			520'-	4	-	
SEC. 24	SEC. 19		LOT 2 -	39.60 ACRES SEC.	20	SEC.	21			Signature Date
				SEC.			. 28	O SE	c.	
SEC. 25	SEC. 30			520.	20	1	1	5 2		Printed Name
GEODETIC	COORDINAT	ES	LAST TAK	E DOINT	GEODETIC C		LACT TAKE	DOINT		Prince Name
	E LOCATION		NAD 2	7 NME	SURFACE		LAST TAKE NAD 83			
	66,083.9 76,508.8		Y= 567 X= 660		Y= 566 X= 717		Y = 567,4 X = 701,3			E-mail Address
LAT.= 3	2.554967'N		LAT.= 32.	558787°N	LAT.= 32.	555087'N	LAT.= 32.55	58907'N		
LONG.= 1	03.760467	W	LONG. = 103	3.813334 W	LONG.= 100	3.760966*W	LONG.= 103.8	813834	~	ISURVEYOR CERTIFICATION
	AKE POINT		BOTTOM HOL NAD 27		FIRST TAK	E POINT	BOTTOM HOLE		N	I hereby certify that the well location shown on this
	27 NME 67,412.9		Y= 567	,389.9	Y= 567	7,474.5	NAD 83 Y= 567,4			plat was plotted from field notes of actual surveys
	75,882.9 2.558629*N		X = 660 LAT.= 32.		X = 701 LAT. = 32.		X= 701,3 LAT.= 32.55			
	03.762475		LONG.= 103		LONG.= 100		LONG.= 103.8		v	made by me or under my supervision, and that the
	CORNER (COOR	DINATES TABL	F	CORM	NER COORDINA	TES TABLE			same is true and correct to the best of my belief.
	N	AD 2	7 NME			NAD 83 N	ME	-		9-30-2020 J DILLON
			N, X= 675,9 N, X= 673,3				X = 717,162.8 X = 714,516.0			
			N, X= 670,6 N, X= 668,0		C - Y = 5 D - Y = 5	67,434.0 N,	X= 711,863.7	E		Signatue and Seal of
			N, X= 665,3		E - Y = 5	67,427.7 N	X = 709,219.7 X = 706,578.1	E		Signature and Seal of Professional Surveyor:
			N, X= 662,7 N, X= 660,1				X = 703,931.3 X = 701.292.5			(23786)
н —	Y= 568,7	22.8	N, X= 675,9	76.7 E	H - Y= 5	68,784.5 N,	X= 717,156.5	E		
			N, X= 673,3 N, X= 670,6				(= 714,509.8) (= 711.858.3)		+	THE ST
	Y= 568,69	94.7	N, X= 668,0	32.0 E	K - Y= 5	68,756.4 N,	x = 709,211.8	E		ALL ALL ALL
M -			N, X= 665,3 N, X= 662,7				x = 706,569.8 x = 703.922.3			MARK DILLON HARP 23786 Certificate Number
N -	Y= 568,69	95.2	N, X= 660,1	06.3 E			X= 701,286.1			Certificate Number LB/LM 2019061792

P:\PROJECTS\2019\2019061792:XTO:BIG_EDDY_UNIT_BB_HUX_201H-LEA\DWG\2019061792:XTO:BIG_EDDY_UNIT_BB_HUX_201H_C-102.dwg

ENERGY					Planning F	Report				
Database: Company: Project: Site: Well: Wellbore: Design:	XTO Lea (Big E #201	oore #1	NAD-27))	Local Co-ordinate Reference:Well #201HTVD Reference:RKB = 25' @ 3550.00usftMD Reference:RKB = 25' @ 3550.00usftNorth Reference:GridSurvey Calculation Method:Minimum Curvature					
Project	Lea C	ounty, NM (N	AD-27)							
Map System: Geo Datum: Map Zone:	NAD 19	te Plane 192 927 (NADCO exico East 30	N CONUS)	tion)	System Datum: Mean Sea Level					
Site	Big Ec	ldy Unit BB H	IUX							
Site Position: From: Position Uncertair	Ма	p	Nort East	hing: ing: Radius:		,113.70 usft ,508.60 usft 13-3/16 "	Latitude: Longitude: Grid Conve			32.555049 -103.760467 0.31
Well	#201H									
Well Position Position Uncertair	+N/-S -29.80 usft Northing: +E/-W 0.20 usft Easting: tainty 0.00 usft Wellhead E		asting:	evation:	566,083.90 676,508.80 0.00) usft Lo	titude: ongitude: ound Level:		32.554967 -103.760467 3,525.00 us	
Wellbore	Wellb	ore #1								
Magnetics	Мо	del Name	Samp	le Date	Declin (°			Angle (°)	Field St (n	
		IGRF2015		10/03/20		6.71		60.29		47,774
Design	PERM	IT								
Audit Notes:										
Version:			Pha	se:	PLAN	ті	e On Depth:		0.00	
Vertical Section:		D	epth From (1 (usft) 0.00	TVD)	+N/-S (usft) 0.00	(u	E/-W Isft) .00		ection (°) 9.92	
Plan Sections						-				
Measured Depth Inclir	nation °)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00 2,000.00 2,643.92 7,721.71	0.00 0.00 12.88 12.88	0.00 0.00 357.62 357.62 269.92	0.00 2,000.00 2,638.51 7,588.57 8 142.00	0.00 0.00 72.00 1,202.77	0.00 -3.00 -50.05	0.00 0.00 2.00 0.00	0.00 0.00 2.00 0.00	0.00 0.00 0.00	0.00 0.00 357.62 0.00	

8,619.32

24,289.82

24,339.82

90.28

90.28

90.28

269.92

269.92

269.92

8,142.00

8,065.42

8,065.18

1,329.00

1,306.07 -16,296.20

1,306.00 -16,346.20

-625.90

10.00

0.00

0.00

8.62

0.00

0.00

-9.77

0.00

0.00

-87.70 BEU BB-HUX 201 F

0.00 BEU BB-HUX 201 l

0.00 BEU BB-HUX 201 F



Planning Report

Database: EDM 5000.1.13 Single User Db Local Co-ordinate Reference: Well #201H **Company: XTO Energy TVD Reference:** RKB = 25' @ 3550.00usft Project: Lea County, NM (NAD-27) **MD Reference:** RKB = 25' @ 3550.00usft Site: Big Eddy Unit BB HUX North Reference: Grid Well: #201H Survey Calculation Method: Minimum Curvature Wellbore: Wellbore #1 PERMIT Design: **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	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00 800.00	0.00 0.00	0.00 0.00	700.00 800.00	0.00 0.00	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 0.00	0.00 0.00
1,000.00 1,100.00	0.00 0.00	0.00 0.00	1,000.00 1,100.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00		
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	357.62	2,099.98	1.74	-0.07	0.07	2.00	2.00	0.00
2,200.00	4.00	357.62	2,199.84	6.97	-0.29	0.28	2.00	2.00	0.00
2,300.00	6.00	357.62	2,299.45	15.68	-0.65	0.63	2.00	2.00	0.00
2,400.00	8.00	357.62	2,398.70	27.86	-1.16	1.12	2.00	2.00	0.00
2,500.00	10.00	357.62	2,497.47	43.48	-1.81	1.75	2.00	2.00	0.00
2,600.00	12.00	357.62	2,595.62	62.55	-2.60	2.52	2.00	2.00	0.00
2,643.92	12.88	357.62	2,638.51	72.00	-3.00	2.90	2.00	2.00	0.00
2,700.00	12.88	357.62	2,693.18	84.49	-3.52	3.40	0.00	0.00	0.00
2,800.00	12.88	357.62	2,790.67	106.76	-4.44	4.29	0.00	0.00	0.00
2,900.00	12.88	357.62	2,888.15	129.03	-5.37	5.19	0.00	0.00	0.00
3,000.00	12.88	357.62	2,985.63	151.30	-6.30	6.08	0.00	0.00	0.00
3,100.00	12.88	357.62	3,083.12	173.57	-7.22	6.98	0.00	0.00	0.00
3,200.00	12.88	357.62	3,180.60	195.83	-8.15	7.88	0.00	0.00	0.00
3,300.00	12.88	357.62	3,278.09	218.10	-9.08	8.77	0.00	0.00	0.00
3,400.00	12.88	357.62	3,375.57	240.37	-10.00	9.67	0.00	0.00	0.00
3,500.00	12.88	357.62	3,473.06	262.64	-10.93	10.56	0.00	0.00	0.00
3,600.00 3,700.00	12.88 12.88	357.62 357.62	3,570.54 3,668.03	284.91 307.18	-11.86 -12.78	11.46 12.35	0.00	0.00	0.00
3,800.00	12.88	357.62	3,765.51	307.18	-12.78	12.35	0.00 0.00	0.00 0.00	0.00 0.00
3,900.00	12.88	357.62	3,863.00	351.72	-14.64	14.14	0.00	0.00	0.00
4,000.00 4,100.00	12.88 12.88	357.62 357.62	3,960.48 4,057.96	373.99 396.26	-15.56 -16.49	15.04 15.94	0.00 0.00	0.00	0.00
4,200.00	12.88	357.62	4,057.90	418.52	-17.42	16.83	0.00	0.00 0.00	0.00 0.00
4,300.00	12.88	357.62	4,252.93	440.79	-18.34	17.73	0.00	0.00	0.00
4,400.00	12.88	357.62	4,350.42	463.06	-19.27	18.62	0.00	0.00	0.00
4,500.00	12.88	357.62	4,447.90	485.33	-20.20	19.52	0.00	0.00	0.00
4,600.00	12.88	357.62	4,545.39	507.60	-21.12	20.41	0.00	0.00	0.00
4,700.00	12.88	357.62	4,642.87	529.87	-22.05	21.31	0.00	0.00	0.00
4,800.00	12.88	357.62	4,740.36	552.14	-22.98	22.20	0.00	0.00	0.00
4,900.00	12.88	357.62	4,837.84	574.41	-23.90	23.10	0.00	0.00	0.00
5,000.00	12.88	357.62	4,935.33	596.68	-24.83	24.00	0.00	0.00	0.00
5,100.00	12.88	357.62	5,032.81	618.95	-25.76	24.89	0.00	0.00	0.00
5,200.00	12.88	357.62	5,130.29	641.21	-26.68	25.79	0.00	0.00	0.00

10/30/20 10:35:44AM

COMPASS 5000.11 Build 74

Received by OCD: 9/28/2022 6:41:22 AM



Planning Report

Database: EDM 5000.1.13 Single User Db Local Co-ordinate Reference: Well #201H **XTO Energy Company: TVD Reference:** RKB = 25' @ 3550.00usft Lea County, NM (NAD-27) **Project:** RKB = 25' @ 3550.00usft **MD Reference:** Site: Big Eddy Unit BB HUX Grid North Reference: Survey Calculation Method: Well: #201H Minimum Curvature Wellbore #1 Wellbore: 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	12.88	357.62	5,227.78	663.48	-27.61	26.68	0.00	0.00	0.00
5,400.00	12.88	357.62	5,325.26	685.75	-28.54	27.58	0.00	0.00	0.00
5,500.00	12.88	357.62	5,422.75	708.02	-29.46	28.47	0.00	0.00	0.00
5,600.00	12.88	357.62	5,520.23	730.29	-30.39	29.37	0.00	0.00	0.00
5,700.00	12.88	357.62	5,617.72	752.56	-31.32	30.27	0.00	0.00	0.00
5,800.00	12.88	357.62	5,715.20	774.83	-32.24	31.16	0.00	0.00	0.00
5,900.00 6,000.00 6,100.00	12.88 12.88 12.88	357.62 357.62 357.62	5,812.69 5,910.17 6,007.65	797.10 819.37 841.64	-33.17 -34.10 -35.02	32.06 32.95 33.85	0.00	0.00	0.00 0.00
6,200.00 6,300.00	12.88 12.88 12.88	357.62 357.62 357.62	6,105.14 6,202.62	863.90 886.17	-35.95 -36.88	33.85 34.74 35.64	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,400.00	12.88	357.62	6,300.11	908.44	-37.80	36.53	0.00	0.00	0.00
6,500.00	12.88	357.62	6,397.59	930.71	-38.73	37.43	0.00	0.00	0.00
6,600.00	12.88	357.62	6,495.08	952.98	-39.66	38.33	0.00	0.00	0.00
6,700.00	12.88	357.62	6,592.56	975.25	-40.58	39.22	0.00	0.00	0.00
6,800.00	12.88	357.62	6,690.05	997.52	-41.51	40.12	0.00	0.00	0.00
6,900.00 7,000.00	12.88 12.88	357.62 357.62	6,787.53 6,885.02	1,019.79 1,042.06	-42.44 -43.36	41.01 41.91	0.00	0.00	0.00
7,100.00	12.88	357.62	6,982.50	1,064.33	-44.29	42.80	0.00	0.00	0.00
7,200.00	12.88	357.62	7,079.98	1,086.59	-45.22	43.70	0.00	0.00	0.00
7,300.00	12.88	357.62	7,177.47	1,108.86	-46.14	44.59	0.00	0.00	0.00
7,400.00 7,500.00	12.88 12.88	357.62 357.62	7,274.95 7,372.44	1,131.13 1,153.40	-47.07 -48.00	45.49 46.39	0.00	0.00	0.00
7,600.00	12.88	357.62	7,469.92	1,175.67	-48.92	47.28	0.00	0.00	0.00
7,700.00	12.88	357.62	7,567.41	1,197.94	-49.85	48.18	0.00	0.00	0.00
7,721.71	12.88	357.62	7,588.57	1,202.77	-50.05	48.37	0.00	0.00	0.00
7,750.00	13.29	345.23	7,616.13	1,209.07	-51.01	49.32	10.00	1.46	-43.79
7,800.00	15.30	326.58	7,664.61	1,220.14	-56.11	54.41	10.00	4.03	-37.31
7,850.00	18.46	313.15	7,712.46	1,231.07	-65.53	63.81	10.00	6.32	-26.85
7,900.00	22.29	303.85	7,759.34	1,241.77	-79.19	77.46	10.00	7.65	-18.60
7,950.00	26.49	297.26	7,804.87	1,252.17	-96.99	95.24	10.00	8.40	-13.18
8,000.00	30.92	292.40	7,848.73	1,262.18	-118.79	117.03	10.00	8.85	-9.72
8,050.00	35.48	288.67	7,890.56	1,271.73	-144.43	142.65	10.00	9.13	-7.46
8,100.00	40.14	285.70	7,930.05	1,280.74	-173.71	171.92	10.00	9.31	-5.95
8,150.00	44.86	283.25	7,966.91	1,289.15	-206.41	204.61	10.00	9.44	-4.89
8,200.00	49.62	281.18	8,000.85	1,296.89	-242.28	240.47	10.00	9.53	-4.14
8,250.00	54.42	279.39	8,031.61	1,303.90	-281.05	279.23	10.00	9.59	-3.59
8,300.00	59.24	277.79	8,058.96	1,310.14	-322.42	320.59	10.00	9.64	-3.18
8,350.00	64.08	276.36	8,082.69	1,315.54	-366.08	364.24	10.00	9.67	-2.88
8,400.00	68.93	275.03	8,102.62	1,320.08	-411.69	409.85	10.00	9.70	-2.65
8,450.00	73.79	273.79	8,118.60	1,323.71	-458.91	457.06	10.00	9.72	-2.48
8,500.00 8,550.00	78.65 83.52	272.61 271.47	8,130.51 8,138.26	1,326.42 1,328.17	-507.38 -556.73	505.53 554.88	10.00 10.00 10.00	9.72 9.73 9.74	-2.46 -2.36 -2.28
8,600.00	88.40	270.35	8,141.78	1,328.96	-606.59	604.73	10.00	9.75	-2.24
8,619.32	90.28	269.92	8,142.00	1,329.00	-625.90	624.04	10.00	9.75	-2.23
8,700.00	90.28	269.92	8,141.61	1,328.88	-706.58	704.73	0.00	0.00	0.00
8,800.00 8,900.00	90.28 90.28	269.92 269.92	8,141.12 8,140.63	1,328.74 1,328.59	-806.58 -906.58	804.72 904.72	0.00	0.00	0.00 0.00
9,000.00	90.28	269.92	8,140.14	1,328.44	-1,006.58	1,004.72	0.00	0.00	0.00
9,100.00	90.28	269.92	8,139.65	1,328.30	-1,106.58	1,104.72	0.00	0.00	0.00
9,200.00	90.28	269.92	8,139.16	1,328.15	-1,206.58	1,204.72	0.00	0.00	0.00
9,300.00 9,400.00 9,500.00	90.28 90.28 90.28	269.92 269.92 269.92	8,138.67 8,138.19 8,137.70	1,328.00 1,327.86 1,327.71	-1,306.57 -1,406.57 -1,506.57	1,304.72 1,404.72 1,504.72	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00

10/30/20 10:35:44AM

COMPASS 5000.1 Build 74

Received by OCD: 9/28/2022 6:41:22 AM



Planning Report

EDM 5000.1.13 Single User Db Database: Local Co-ordinate Reference: Well #201H Company: **XTO Energy TVD Reference:** RKB = 25' @ 3550.00usft Lea County, NM (NAD-27) **Project: MD Reference:** RKB = 25' @ 3550.00usft Site: Big Eddy Unit BB HUX North Reference: Grid Well: #201H 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)
9,600.00 9,700.00	90.28 90.28	269.92 269.92	8,137.21 8,136.72	1,327.57 1,327.42	-1,606.57 -1,706.57	1,604.72 1,704.71	0.00 0.00	0.00 0.00	0.00 0.00
9,800.00 9,900.00 10,000.00 10,100.00 10,200.00	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,136.23 8,135.74 8,135.25 8,134.76 8,134.28	1,327.27 1,327.13 1,326.98 1,326.83 1,326.69	-1,806.57 -1,906.57 -2,006.57 -2,106.56 -2,206.56	1,804.71 1,904.71 2,004.71 2,104.71 2,204.71	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
10,300.00 10,400.00 10,500.00 10,600.00 10,700.00	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,133.79 8,133.30 8,132.81 8,132.32 8,131.83	1,326.54 1,326.39 1,326.25 1,326.10 1,325.96	-2,306.56 -2,406.56 -2,506.56 -2,606.56 -2,706.56	2,304.71 2,404.71 2,504.70 2,604.70 2,704.70	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
10,800.00 10,900.00 11,000.00 11,100.00 11,200.00	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,131.34 8,130.85 8,130.37 8,129.88 8,129.39	1,325.81 1,325.66 1,325.52 1,325.37 1,325.22	-2,806.55 -2,906.55 -3,006.55 -3,106.55 -3,206.55	2,804.70 2,904.70 3,004.70 3,104.70 3,204.70	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 11,700.00	90.28 90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,128.90 8,128.41 8,127.92 8,127.43 8,126.95	1,325.08 1,324.93 1,324.79 1,324.64 1,324.49	-3,306.55 -3,406.55 -3,506.55 -3,606.54 -3,706.54	3,304.69 3,404.69 3,504.69 3,604.69 3,704.69	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	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,126.46 8,125.97 8,125.48 8,124.99 8,124.50	1,324.35 1,324.20 1,324.05 1,323.91 1,323.76	-3,806.54 -3,906.54 -4,006.54 -4,106.54 -4,206.54	3,804.69 3,904.69 4,004.69 4,104.69 4,204.68	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	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,124.01 8,123.52 8,123.04 8,122.55 8,122.06	1,323.61 1,323.47 1,323.32 1,323.18 1,323.03	-4,306.54 -4,406.53 -4,506.53 -4,606.53 -4,706.53	4,304.68 4,404.68 4,504.68 4,604.68 4,704.68	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	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,121.57 8,121.08 8,120.59 8,120.10 8,119.61	1,322.88 1,322.74 1,322.59 1,322.44 1,322.30	-4,806.53 -4,906.53 -5,006.53 -5,106.52 -5,206.52	4,804.68 4,904.68 5,004.67 5,104.67 5,204.67	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	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,119.13 8,118.64 8,118.15 8,117.66 8,117.17	1,322.15 1,322.01 1,321.86 1,321.71 1,321.57	-5,306.52 -5,406.52 -5,506.52 -5,606.52 -5,706.52	5,304.67 5,404.67 5,504.67 5,604.67 5,704.67	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	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,116.68 8,116.19 8,115.71 8,115.22 8,114.73	1,321.42 1,321.27 1,321.13 1,320.98 1,320.84	-5,806.52 -5,906.51 -6,006.51 -6,106.51 -6,206.51	5,804.67 5,904.66 6,004.66 6,104.66 6,204.66	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	90.28 90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,114.24 8,113.75 8,113.26 8,112.77 8,112.28	1,320.69 1,320.54 1,320.40 1,320.25 1,320.10	-6,306.51 -6,406.51 -6,506.51 -6,606.51 -6,706.50	6,304.66 6,404.66 6,504.66 6,604.66 6,704.65	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	90.28 90.28	269.92 269.92	8,111.80 8,111.31	1,319.96 1,319.81	-6,806.50 -6,906.50	6,804.65 6,904.65	0.00 0.00	0.00 0.00	0.00 0.00

10/30/20 10:35:44AM

COMPASS 5000.11 Build 74



Planning Report

Database: Company: Project: Site: Well: Well: Wellbore: Design:	EDM 5000.1.13 Single User Db XTO Energy Lea County, NM (NAD-27) Big Eddy Unit BB HUX #201H Wellbore #1 PERMIT	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well #201H RKB = 25' @ 3550.00usft RKB = 25' @ 3550.00usft Grid Minimum Curvature
Planned Survey	1		

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	90.28	269.92	8,110.82	1,319.66	-7,006.50	7,004.65	0.00	0.00	0.00
15,100.00	90.28	269.92	8,110.33	1,319.52	-7,106.50	7,104.65	0.00	0.00	0.00
15,200.00	90.28	269.92	8,109.84	1,319.37	-7,206.50	7,204.65	0.00	0.00	0.00
15,300.00	90.28	269.92	8,109.35	1,319.23	-7,306.50	7,304.65	0.00	0.00	0.00
15,400.00	90.28	269.92	8,108.86	1,319.08	-7,406.49	7,404.65	0.00	0.00	0.00
15,500.00	90.28	269.92	8,108.37	1,318.93	-7,506.49	7,504.64	0.00	0.00	0.00
15,600.00	90.28	269.92	8,107.89	1,318.79	-7,606.49	7,604.64	0.00	0.00	0.00
15,700.00	90.28	269.92	8,107.40	1,318.64	-7,706.49	7,704.64	0.00	0.00	0.00
15,800.00	90.28	269.92	8,106.91	1,318.49	-7,806.49	7,804.64	0.00	0.00	0.00
15,900.00	90.28	269.92	8,106.42	1,318.35	-7,906.49	7,904.64	0.00	0.00	0.00
16,000.00	90.28	269.92	8,105.93	1,318.20	-8,006.49	8,004.64	0.00	0.00	0.00
16,100.00 16,200.00	90.28 90.28	269.92 269.92	8,105.44 8,104.95	1,318.06 1,317.91	-8,106.49	8,104.64	0.00	0.00	0.00
			11 1002103 (1220)		-8,206.48	8,204.64	0.00	0.00	0.00
16,300.00	90.28	269.92	8,104.47	1,317.76	-8,306.48	8,304.64	0.00	0.00	0.00
16,400.00	90.28	269.92	8,103.98	1,317.62	-8,406.48	8,404.63	0.00	0.00	0.00
16,500.00	90.28	269.92	8,103.49	1,317.47	-8,506.48	8,504.63	0.00	0.00	0.00
16,600.00 16,700.00	90.28 90.28	269.92 269.92	8,103.00 8,102.51	1,317.32 1,317.18	-8,606.48 -8,706.48	8,604.63	0.00 0.00	0.00	0.00
<u>.</u>				50		8,704.63		0.00	0.00
16,800.00	90.28	269.92	8,102.02	1,317.03	-8,806.48	8,804.63	0.00	0.00	0.00
16,900.00	90.28	269.92	8,101.53	1,316.88	-8,906.48	8,904.63	0.00	0.00	0.00
17,000.00	90.28 90.28	269.92 269.92	8,101.04	1,316.74	-9,006.47	9,004.63	0.00	0.00	0.00
17,100.00 17,200.00	90.28	269.92	8,100.56 8,100.07	1,316.59 1,316.45	-9,106.47 -9,206.47	9,104.63	0.00	0.00	0.00
						9,204.62	0.00	0.00	0.00
17,300.00	90.28	269.92	8,099.58	1,316.30	-9,306.47	9,304.62	0.00	0.00	0.00
17,400.00	90.28	269.92	8,099.09	1,316.15	-9,406.47	9,404.62	0.00	0.00	0.00
17,500.00	90.28	269.92	8,098.60	1,316.01	-9,506.47	9,504.62	0.00	0.00	0.00
17,600.00 17,700.00	90.28 90.28	269.92 269.92	8,098.11 8,097.62	1,315.86 1,315.71	-9,606.47 -9,706.47	9,604.62 9,704.62	0.00 0.00	0.00 0.00	0.00
									0.00
17,800.00	90.28	269.92	8,097.14	1,315.57	-9,806.46	9,804.62	0.00	0.00	0.00
17,900.00	90.28	269.92	8,096.65	1,315.42	-9,906.46	9,904.62	0.00	0.00	0.00
18,000.00	90.28	269.92	8,096.16	1,315.28	-10,006.46	10,004.61	0.00	0.00	0.00
18,100.00 18,200.00	90.28 90.28	269.92 269.92	8,095.67 8,095.18	1,315.13 1,314.98	-10,106.46 -10,206.46	10,104.61	0.00	0.00	0.00
						10,204.61	0.00	0.00	0.00
18,300.00	90.28	269.92	8,094.69	1,314.84	-10,306.46	10,304.61	0.00	0.00	0.00
18,400.00	90.28	269.92	8,094.20	1,314.69	-10,406.46	10,404.61	0.00	0.00	0.00
18,500.00 18,600.00	90.28 90.28	269.92 269.92	8,093.71 8,093.23	1,314.54 1,314.40	-10,506.45	10,504.61	0.00	0.00	0.00
18,700.00	90.28	269.92	8,093.23	1,314.40	-10,606.45	10,604.61 10,704.61	0.00 0.00	0.00 0.00	0.00 0.00
						NAME AND ADDRESS			
18,800.00	90.28	269.92	8,092.25	1,314.11	-10,806.45	10,804.61	0.00	0.00	0.00
18,900.00 19,000.00	90.28 90.28	269.92 269.92	8,091.76 8,091.27	1,313.96 1,313.81	-10,906.45	10,904.60	0.00	0.00	0.00
19,100.00	90.28	269.92	8,090.78	1,313.67	-11,106.45	11,004.60 11,104.60	0.00 0.00	0.00 0.00	0.00 0.00
19,200.00	90.28	269.92	8,090.29	1,313.52	-11,206.45	11,204.60	0.00	0.00	0.00
19,300.00	90.28	269.92	100	1,313.37		12.0			
19,300.00	90.28	269.92	8,089.80 8,089.32	1,313.37	-11,306.44 -11,406.44	11,304.60	0.00	0.00	0.00
19,500.00	90.28	269.92	8,088.83	1,313.08	-11,506.44	11,504.60	0.00	0.00 0.00	0.00 0.00
19,600.00	90.28	269.92	8,088.34	1,312.93	-11,606.44	11,604.60	0.00	0.00	0.00
19,700.00	90.28	269.92	8,087.85	1,312.79	-11,706.44	11,704.59	0.00	0.00	0.00
19,800.00	90.28	269.92	8,087.36	1,312.64	-11,806.44	11,804.59	0.00		
19,800.00	90.28	269.92	8,086.87	1,312.64	-11,806.44	11,804.59	0.00	0.00 0.00	0.00 0.00
20,000.00	90.28	269.92	8,086.38	1,312.35	-12,006.44	12,004.59	0.00	0.00	0.00
20,100.00	90.28	269.92	8,085.90	1,312.20	-12,106.43	12,104.59	0.00	0.00	0.00
20,200.00	90.28	269.92	8,085.41	1,312.06	-12,206.43	12,204.59	0.00	0.00	0.00
20,300.00	90.28	269.92	8,084.92	1,311.91					
	90.20	209.92	0,004.92	1,311.91	-12,306.43	12,304.59	0.00	0.00	0.00

10/30/20 10:35:44AM

COMPASS 5000.11 Build 74

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Received by OCD: 9/28/2022 6:41:22 AM

EDM 5000.1.13 Single User Db

Lea County, NM (NAD-27)

Big Eddy Unit BB HUX

XTO Energy

Wellbore #1

#201H

PERMIT



Database:

Company:

Project:

Wellbore:

Site:

Well:

Planning Report

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well #201H RKB = 25' @ 3550.00usft RKB = 25' @ 3550.00usft Grid Minimum Curvature

Design: 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 20,500.00 20,600.00 20,700.00	90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92	8,084.43 8,083.94 8,083.45 8,082.96	1,311.76 1,311.62 1,311.47 1,311.33	-12,406.43 -12,506.43 -12,606.43 -12,706.43	12,404.59 12,504.59 12,604.58 12,704.58	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
20,800.00 20,900.00 21,000.00 21,100.00 21,200.00	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,082.47 8,081.99 8,081.50 8,081.01 8,080.52	1,311.18 1,311.03 1,310.89 1,310.74 1,310.59	-12,806.42 -12,906.42 -13,006.42 -13,106.42 -13,206.42	12,804.58 12,904.58 13,004.58 13,104.58 13,204.58	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
21,300.00 21,400.00 21,500.00 21,600.00 21,700.00	90.28 90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,080.03 8,079.54 8,079.05 8,078.56 8,078.08	1,310.45 1,310.30 1,310.15 1,310.01 1,309.86	-13,306.42 -13,406.42 -13,506.42 -13,606.41 -13,706.41	13,304.58 13,404.57 13,504.57 13,604.57 13,704.57	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
21,800.00 21,900.00 22,000.00 22,100.00 22,200.00	90.28 90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,077.59 8,077.10 8,076.61 8,076.12 8,075.63	1,309.72 1,309.57 1,309.42 1,309.28 1,309.13	-13,806.41 -13,906.41 -14,006.41 -14,106.41 -14,206.41	13,804.57 13,904.57 14,004.57 14,104.57 14,204.56	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
22,300.00 22,400.00 22,500.00 22,600.00 22,700.00	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,075.14 8,074.66 8,074.17 8,073.68 8,073.19	1,308.98 1,308.84 1,308.69 1,308.55 1,308.40	-14,306.41 -14,406.40 -14,506.40 -14,606.40 -14,706.40	14,304.56 14,404.56 14,504.56 14,604.56 14,704.56	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
22,800.00 22,900.00 23,000.00 23,100.00 23,200.00	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,072.70 8,072.21 8,071.72 8,071.23 8,070.75	1,308.25 1,308.11 1,307.96 1,307.81 1,307.67	-14,806.40 -14,906.40 -15,006.40 -15,106.39 -15,206.39	14,804.56 14,904.56 15,004.56 15,104.55 15,204.55	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
23,300.00 23,400.00 23,500.00 23,600.00 23,700.00	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,070.26 8,069.77 8,069.28 8,068.79 8,068.30	1,307.52 1,307.38 1,307.23 1,307.08 1,306.94	-15,306.39 -15,406.39 -15,506.39 -15,606.39 -15,706.39	15,304.55 15,404.55 15,504.55 15,604.55 15,704.55	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
23,800.00 23,900.00 24,000.00 24,100.00 24,200.00	90.28 90.28 90.28 90.28 90.28	269.92 269.92 269.92 269.92 269.92 269.92	8,067.81 8,067.32 8,066.84 8,066.35 8,065.86	1,306.79 1,306.64 1,306.50 1,306.35 1,306.20	-15,806.39 -15,906.38 -16,006.38 -16,106.38 -16,206.38	15,804.55 15,904.54 16,004.54 16,104.54 16,204.54	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
24,289.82 24,300.00 24,339.82	90.28 90.28 90.28	269.92 269.92 269.92	8,065.42 8,065.37 8,065.18	1,306.07 1,306.06 1,306.00	-16,296.20 -16,306.38 -16,346.20	16,294.36 16,304.54 16,344.36	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

10/30/20 10:35:44AM

ENERGY				P	lanning Re	eport				
Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1.13 Single User Db XTO Energy Lea County, NM (NAD-27) Big Eddy Unit BB HUX #201H Wellbore #1 PERMIT				TVD Refe MD Refer North Ref	ence:	RKB = 25 RKB = 25 Grid	Well #201H RKB = 25' @ 3550.00usft RKB = 25' @ 3550.00usft Grid Minimum Curvature		
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BEU BB-HUX 201 S - plan hits target - Point		0.00	0.00	0.00	0.00	566,083.90	676,508.80	32.5549671	-103.76046	
BEU BB-HUX 201 P - plan hits target - Point		0.00	8,065.18	1,306.00	-16,346.20	567,389.90	660,162.60	32.5587875	-103.81349	
BEU BB-HUX 201 L ⁻ - plan misses tar - Point			8,065.42 24289.82u		-16,296.20 5.42 TVD, 13	567,389.90 06.07 N, -16296.2	660,212.60 0 E)	32.5587868	-103.813334	
BEU BB-HUX 201 F - plan hits target - Point		0.00	8,142.00	1,329.00	-625.90	567,412.90	675,882.90	32.5586294	-103.76247	

Formations

Measure Depth (usft)	d Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
952.0	952.00	Rustler				
1,227.0	1,227.00	Salado/Top of Salt				
2,575.8	2,572.00	Base of Salt				
3,245.5	3,225.00	Capitan Reef				
4,778.0	9 4,719.00	Delaware Sand				
5,194.5	5,125.00	Manzanita Marker				
6,294.2	6,197.00	Brushy Canyon Ss.				
7,575.4	6 7,446.00	Lower Brushy Canyon Ss.				
7,860.0	7,722.00	Bone Spring Lm.				
8,016.7	7 7,863.00	Avalon Ss.				
8,123.8	7,948.00	Upper Avalon Sh.				
8,619.3	8,142.00	Landing Point				

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating
WELL NAME & NO.:	Big Eddy Unit BB Hux 201H
LOCATION:	Sec 22-20S-32E-NMP
COUNTY:	Eddy County, New Mexico



H2S	⊂ Yes	No	
Potash	⊂ None	⊂ Secretary	@ R-111-P
Cave/Karst Potential	Low	⊂ Medium	⊂ High
Cave/Karst Potential	Critical		
Variance	⊂ None	Flex Hose	⊂ Other
Wellhead	⊂ Conventional	Multibowl	⊂ Both
Other	✓ 4 String Area	🔽 Capitan Reef	└─ WIPP
Other	Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	Г СОМ	🔽 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

The Bureau of Land Management has made slight adjustments to the proposed APD to meet regulation requirements.

- a) The geologist requires the intermediate casing to be set at **2800** ft (in the Tansill Limestone) to adequately isolate the salt formation.
- b) There was a typo included in the submitted APD. Operator designated that they would like to adjust the maximum mud weight to **9.1** ppg (APD listed maximum mud weight as 9.5 ppg.)
- c) TVD listed as MD on APD. TVD set at 8065' per 3160. Sundry must be submitted to alter TVD to another value.

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- 1. The **18 5/8** inch surface casing shall be set at approximately 1200 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>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the 13-3/8 inch intermediate casing (set at 2800 ft) is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.
 - In <u>Capitan Reef 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.
 - Special Capitan Reef requirements. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

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(Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 3. The minimum required fill of cement behind the 9-5/8 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 see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.

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Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

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 **3000 (3M)** 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.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

GENERAL REQUIREMENTS

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

a. Spudding well (minimum of 24 hours)

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- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County

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

- Lea 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.

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A. CASING

- 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</u> hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <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

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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

- 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.

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- 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.

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- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

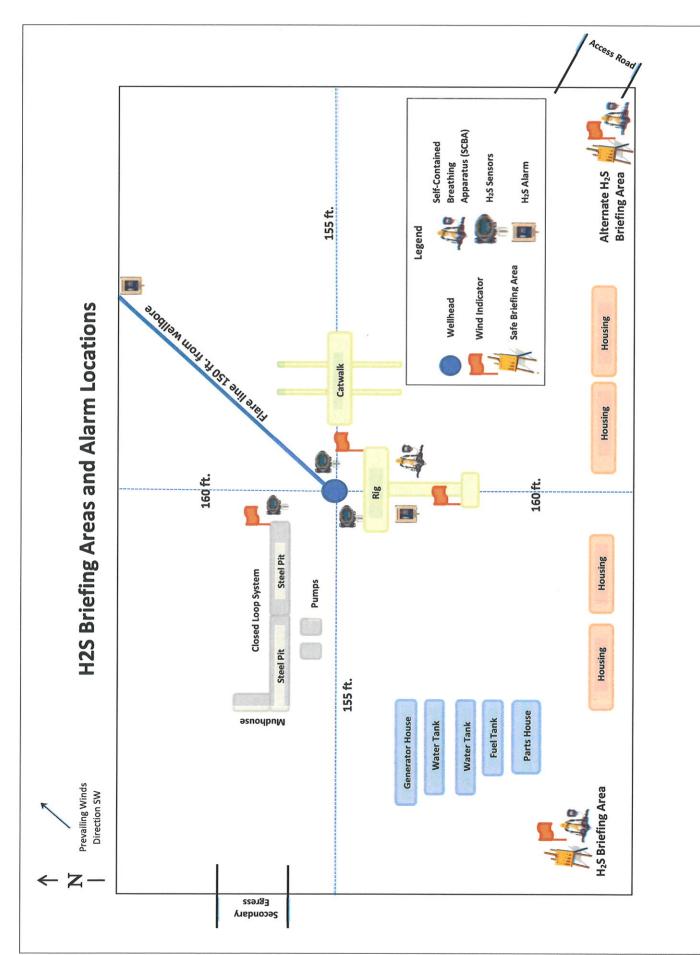
C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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





HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

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

Characteristics of H₂S and SO₂

Common Name	Chemical	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	

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT BB HUX

Well Number: 201H

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

Disposal type description:

Disposal location description: A licensed 3rd party vendor will be contracted to haul and safely dispose of 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 length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

Cuttings area depth (ft.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	146692
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date		
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/7/2022		
pkautz	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	10/7/2022		
pkautz	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	10/7/2022		
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	10/7/2022		

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Action 146692