Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-56135 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SWNE / 1745 FNL / 2290 FEL / TWSP: 20S / RANGE: 31E / SECTION: 27 / LAT: 32.54674 / LONG: -103.855874 (TVD: 0 feet, MD: 0 feet) PPP: SESE / 988 FSL / 0 FWL / TWSP: 20S / RANGE: 31E / SECTION: 20 / LAT: 32.554289 / LONG: -103.882743 (TVD: 9730 feet, MD: 18900 feet) PPP: SWSE / 982 FSL / 1327 FEL / TWSP: 20S / RANGE: 31E / SECTION: 21 / LAT: 32.554275 / LONG: -103.869826 (TVD: 9730 feet, MD: 14900 feet) PPP: SESE / 983 FSL / 0 FWL / TWSP: 20S / RANGE: 31E / SECTION: 21 / LAT: 32.55427 / LONG: -103.865517 (TVD: 9730 feet, MD: 13600 feet) PPP: SESW / 989 FSL / 2630 FEL / TWSP: 20S / RANGE: 31E / SECTION: 22 / LAT: 32.55426 / LONG: -103.85698 (TVD: 9730 feet, MD: 11000 feet) PPP: SWSE / 990 FSL / 2310 FEL / TWSP: 20S / RANGE: 31E / SECTION: 22 / LAT: 32.554259 / LONG: -103.855939 (TVD: 9730 feet, MD: 10600 feet) BHL: SWSW / 990 FSL / 50 FWL / TWSP: 20S / RANGE: 31E / SECTION: 20 / LAT: 32.554306 / LONG: -103.899805 (TVD: 9730 feet, MD: 24084 feet)

BLM Point of Contact

Name: MARIAH HUGHES Title: Land Law Examiner Phone: (575) 234-5972 Email: mhughes@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



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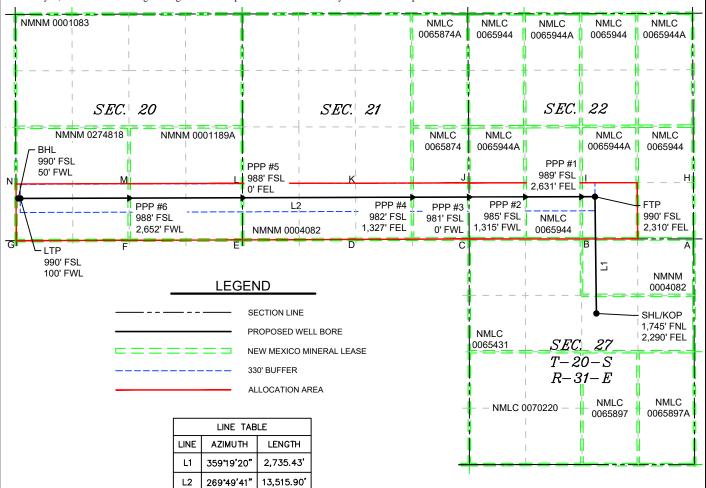
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	electronically D Permitting			OIL	L CONVERS	ION DIVISION				
v ia OC	D remitting								☑ Initial Sub	mittal
								Submital Type:	Amended 1	Report
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			1		WELL LOCA	TION INFORMATION	II: O	in la Da		
API Nu		5- 56135	Pool Code	50 98232	2			•	ne Spring BONE SPRIN	ıg
Property	y Code		Property N					<u> </u>	Well Number	
OGRID	33678	30	0	Y	BIG EDDY U	NIT DI 5 WEST 27-2	0		C 11	3H
OGRID	37307	5	Operator N	rame	XTO PERMIA	AN OPERATING, LLC	C .		Ground Level	3,525'
Surface	Owner: S	tate Fee	Tribal ⊠Fe	deral		Mineral Owner: □S	tate Fee	□Tribal 🛛	Federal	
UL	Section	Township	Range	Lot	Surface Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
G	27	20\$	31E		1,745 FNL	2,290 FEL	32.546	740 -	103.855874	EDDY
					D.44:					
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М	20	20\$	31E		990 FSL	50 FWL	32.554	306 -	103.899805	EDDY
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	ed Acres	Infill or Defin	_	Defining	Well API	Overlapping Spacing U	Unit (Y/N)	Consolidat	ion Code	
Order N	Jumbers.					Well Setbacks are und	er Common C	wnership:	☑Yes □No	
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UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
M	20	208	31E		990 FSL	100 FWL	32.554	306 -	103.899643	EDDY
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Unitized	d Area or Are	a of Interest		Spacing Ur	nit Type : 🏻 Hori	zontal	Groui	nd Elevation	3,525'	
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFICA	ATIONS			
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.						ne or under my belief	supervision	and that the san		
Signatur		Naveen	Date	1/17/	25	Signature and Seal of Pro	fessional Sum	vevor	SONAL S	ur.
Ü		·				Signature and Sear Of Pro	icooidiiai Surv	Cy01		
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Srin Email A	ivas.n.l	laghuvar	apu@e	exxonn	nobil.com	Certificate Number	Date of	f Survey		
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Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other then the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



						COORD	INATE TAE	BLE						
SHL/KOI	P (NAD 83 N	ME)	FTP (I	NAD 83 NME	Ξ)	PPP #1	(NAD 83 NN	IE)	PPP #2	(NAD 83 NN	IE)	PPP #3	(NAD 83 NM	IE)
Y =	562,964.5	N	Y =	565,699.7	N	Y =	565,698.7	Ń	Y =	565,694.8	Ň	Y =	565,690.8	Ň
X =	688,459.9	Е	X =	688,427.6	Е	X =	688,106.7	Е	X =	686,791.6	Ε	X =	685,476.4	Е
LAT. =	32.546740	°N	LAT. =	32.554259	°N	LAT. =	32.554260	°N	LAT. =	32.554265	°N	LAT. =	32.554270	°N
LONG. =	103.855874	°W	LONG. =	103.855939	°W	LONG. =	103.856980	°W	LONG. =	103.861249	°W	LONG. =	103.865517	°W
PPP #4	(NAD 83 NM	E)	PPP #5	(NAD 83 NN	1E)	PPP #6	(NAD 83 NN	IE)	LTP (I	NAD 83 NME	:)	BHL (NAD 83 NME	Ξ)
Y =	565,686.9	Ν	Υ=	565,674.9	N	Y =	565,667.0	N	Y =	565,659.3	Ν	Y =	565,659.1	Ν
X =	684,149.0	Ε	X =	680,168.9	E	X =	677,513.6	E	X =	674,961.7	Е	X =	674,911.7	Е
LAT. =	32.554275	°N	LAT. =	32.554289	°N	LAT. =	32.554298	°N	LAT. =	32.554306	°N	LAT. =	32.554306	°N
LONG. =	103.869826	°W	LONG. =	103.882743	°W									
	P (NAD 27 N	ME)		NAD 27 NME			(NAD 27 NN			(NAD 27 NN			(NAD 27 NM	
Y =	562,902.7	N	Y =	565,637.9	N	Y =	565,637.0	N	Y =	565,633.0	N	Y =	565,629.1	N
X =	647,280.4	Е	X =	647,248.1	E	X =	646,927.3	E	X =	645,612.1	Ε	X =	644,297.0	Е
LAT. =	32.546619	°N	LAT. =	32.554138	°N		32.554139	°N		32.554145	°N		32.554150	°N
LONG. =	103.855372	°W	LONG. =	103.855437	°W				LONG. =	103.860747	°W	LONG. =	103.865015	°W
PPP #4	(NAD 27 NM	E)		(NAD 27 NN	1E)		(NAD 27 NN	IE)		NAD 27 NME	_		NAD 27 NME	_
Y =	565,625.1	N	Y =	565,613.1	N	Y =	565,605.1	N	Y =	565,597.5	N	Y =	565,597.3	N
X =	642,969.5	Е	X =	638,989.4	Е	X =	636,334.1	E	X =	633,782.2	Е	X =	633,732.2	E
LAT. =	32.554155	°N	LAT. =	32.554169	°N		32.554178	°N	LAT. =	32.554185	°N		32.554186	°N
	103.869323			l	°W	LONG. =	103.890858	°W		103.899140				°W
	NER COOR			, , ,						NER COOR	_			
A-Y=	564,709.8	Ν	A - X =	690,742.9	E				A-Y=	564,648.1	N	A - X =	649,563.3	E
B - Y =	564,709.7	N	B - X =	688,110.4	E				B-Y=	564,648.0	N	B - X =	646,930.9	E
C - Y =	564,710.2	N	C - X =	685,481.1	Е				C - Y =	564,648.5	N	C - X =	644,301.6	E
D - Y =	564,698.7	N	D - X =	682,824.9	E				D-Y=	564,636.9	N	D - X =	·	E
E - Y =	564,687.3	N	E - X =	680,170.9	E				E-Y=	564,625.5	N	E - X =	638,991.3	E
F - Y =	564,678.7	Ν	F - X =	677,516.4	E				F-Y=	564,616.9	N	F - X =	636,336.9	E
G-Y=	564,669.5	N	G - X =	674,866.4	E				G-Y=	564,607.8	N	G-X=	633,686.8	Е
H-Y=	566,032.2	N	H - X =	690,735.6	Е				H-Y=	565,970.4	N	H - X =	649,556.1	E
I-Y=	566,027.3	N	I - X =	688,105.1	E				I-Y=	565,965.6	N	I - X =	646,925.7	Е
J-Y=	566,022.8	Ν	J - X =	685,474.6	Е				J-Y=	565,961.1	N	J - X =	644,295.1	Е
K - Y =	566,017.4	N	K - X =	682,819.6	Е				K-Y=	565,955.7	N	K - X =	641,640.2	E
L-Y=	566,012.1	N	L - X =	680,167.9	Е				L-Y=	565,950.3	N	L - X =	638,988.4	Е
M - Y =	566,005.0	Ν	M - X =	677,512.7	E				M-Y=	565,943.2	Ν	M - X =	636,333.1	E
N - Y =	565,997.6	N	N - X =	674,860.5	E				N - Y =	565,935.8	N	N - X =	633,681.0	Е
											КТ		618.013004.04-03	3

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: XTO Permian Operating, LLC	OGRID: 373075	Date: 10/10/2024	
II. Type: ⊠ Original □ Amendment due to □ 19	.15.27.9.D(6)(a) NMAC □	19.15.27.9.D(6)(b) NMAC □ Other.	
If Other, please describe:			

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to he recompleted from a single well pad or connected to a central delivery point

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	3 yr Anticipated Decline oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated decline Water BBL/D
Big Eddy Unit DI 5 West 27- 20 1H	TBD	27 T20S R31E	1745' FNL, 2230' FEL	1,800	200	2,500	700	4,500	550
Big Eddy Unit DI 5 West 27- 20 2H	TBD	27 T20S R31E	1745' FNL, 2260' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5 West 27- 20 3H	TBD	27 T20S R31E	1745' FNL, 2290' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5 West 27- 20 4H	TBD	27 T20S R31E	1870' FNL, 2230' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5 West 27- 29 5H	TBD	27 T20S R31E	1870' FNL, 2260' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5 West 27- 29 6H	TBD	27 T20S R31E	1870' FNL, 2290' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5	TBD	27 T20S R31E	1945' FNL,	1,500	200	2,250	500	3,750	450

West 27- 29 7H			2290' FEL						
Big Eddy Unit DI 5 West 27- 29 8H	TBD	27 T20S R31E	1945' FNL, 2260' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5 West 27- 29 9H	TBD	27 T20S R31E	1945' FNL, 2230' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5 West 27- 29 10H	TBD	27 T20S R31E	2070' FNL, 2290' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5 West 27- 29 11H	TBD	27 T20S R31E	2070' FNL, 2260' FEL	1,500	200	2,250	500	3,750	450
Big Eddy Unit DI 5 West 27- 29 12H	TBD	27 T20S R31E	2070' FNL, 2230' FEL	1,500	200	2,250	500	3,750	450

IV. Central Delivery Point Name: Big Eddy Unit DI 5 Battery [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or

proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production
			Date	Commencement Date	Back Date	Date
Big Eddy Unit DI 5 West 27-20 1H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-20 2H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-20 3H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-20 4H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-29 5H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-29 6H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-29 7H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-29 8H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-29 9H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-29 10H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-29 11H	TBD	TBD	TBD	TBD	TBD	TBD
Big Eddy Unit DI 5 West 27-29 12H	TBD	TBD	TBD	TBD	TBD	TBD

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

VIII. Best Management Practices:

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

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

XIII. Line Pressure. Operator \square does \square 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 w	ell(s).

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XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information pro	vided 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 info	ormation
for which confidentiality is asserted and the basis for such assertion.	

Section 3 Cortifications

	Effective May 25, 2021
Operator certifies that, a	fter reasonable inquiry and based on the available information at the time of submittal:
one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering
hundred percent of the a into account the current	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one nticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. box, Operator will select one of the following:
Well Shut-In. ☐ Operat D of 19.15.27.9 NMAC;	or will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection or
	an. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential as for the natural gas until a natural gas gathering system is available, including: power generation on lease; power generation for grid; compression on lease; liquids removal on lease; reinjection for underground storage; reinjection for temporary storage; reinjection for enhanced oil recovery; fuel cell production; and other alternative beneficial uses approved by the division.
(1)	onter anomalist continual about approved by the distribution

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.

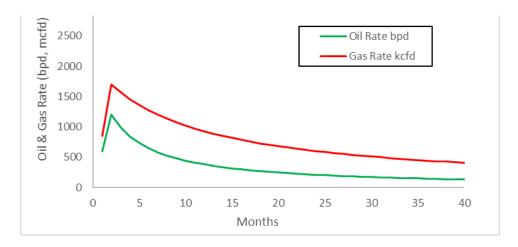
I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Srinivas Navien
Printed Name: Srinivas Naveen Laghuvarapu
Title: Regulatory Analyst
E-mail Address: srinivas.n.laghuvarapu@exxonmobil.com
Date: 10/29/2024
Phone: +91-7780442850
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

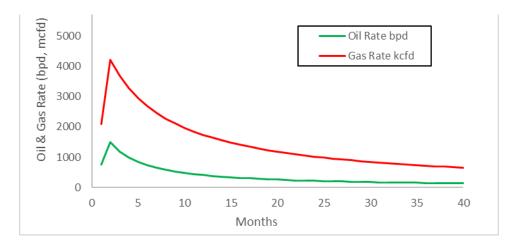
Page **6** of **7**

Big Eddy Unit - Decline Curves:

Bone Spring:



Wolfcamp:



VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically infeasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

• Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.



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

Drilling Plan Data Report

APD ID: 10400093610

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT DI 5 WEST 27-20

Well Type: OIL WELL

Submission Date: 08/07/2023

Well Number: 3H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14860576	QUATERNARY	3525	0	0	ALLUVIUM	USEABLE WATER	N
14860577	RUSTLER	2882	643	643	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14860578	SALADO	2606	919	919	SALT	POTASH	N
14860579	BASE OF SALT	1354	2171	2171	SALT	POTASH	N
14860575	CAPITAN REEF	694	2831	2831	LIMESTONE	OIL, USEABLE WATER	N
14860580	DELAWARE	-381	3906	3906	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14860572	BRUSHY CANYON	-2338	5863	5863	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14860581	BONE SPRING	-3914	7439	7439	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
14860573	BONE SPRING 1ST	-5188	8713	8713	LIMESTONE, SANDSTONE	NATURAL GAS, OTHER : Produced Water	Y
14860574	BONE SPRING 2ND	-6045	9570	9570	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 9730

Equipment: Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 5M Double Ram BOP. XTO will use a Multi-Bowl system which is attached.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

on each of the wells. A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. We will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

Testing Procedure: All BOP testing will be done by an independent service company. Operator will test as per 43 CFR 3172.

Choke Diagram Attachment:

BIG_EDDY_UNIT_DI_5_WEST_5MCM_20240614092447.pdf

BOP Diagram Attachment:

BIG_EDDY_UNIT_DI_5_WEST_5MBOP_20240614092454.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	819	0	819	3525	2706	819	J-55	54.5	BUTT	3.16	4.02	DRY	20.3 6	DRY	20.3 6
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2271	0	2271	3525	1254	2271	J-55	40	BUTT	3.98	4.2	DRY	6.94	DRY	6.94
3	INTERMED IATE	8.75	7.625	NEW	API	Y	0	3956	0	3869	3525	-344	3956	L-80	29.7	FJ	8.6	2.17	DRY	9.21	DRY	9.21
4	PRODUCTI ON	6.75	5.5	NEW	NON API	Υ	0	24084	0	9730	3525	-6205	24084	P- 110		OTHER - TalonHTQ/F reedomHTQ	2.09	1.05	DRY	2.8	DRY	2.8

Casing Attachments

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

3H___CSG_20241128114300.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

3H___CSG_20241128114022.pdf

Casing ID: 3

١,

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

3H___CSG_20241128114322.pdf

Casing Design Assumptions and Worksheet(s):

3H___CSG_20241128114427.pdf

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Casing Attachments

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Freedom_semi_premium_5.5_production_casing_20240823094941.pdf Talon___semiflush_5.5_production_casing_20240724162527.pdf

Tapered String Spec:

3H___CSG_20241128114131.pdf

Casing Design Assumptions and Worksheet(s):

3H___CSG_20241128114157.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	819	540	1.33	12.8	718.2	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	819	310	1.33	14.8	412.3	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	1971	90	2.77	10.5	249.3	100	Class C	NA
INTERMEDIATE	Tail		1971	3956	210	1.27	14.8	266.7	100	Class C	NA
INTERMEDIATE	Lead		0	2271	440	2.06	14.8	906.4	100	Class C	NA
INTERMEDIATE	Tail		0	2271	60	2.06	15.6	123.6	100	Class C	2% CaCl
PRODUCTION	Lead		7439	9624	70	2.69	11.5	188.3	30	NeoCem	NA
PRODUCTION	Tail		9624	2408 4	910	1.51	13.2	1374. 1	30	VersaCem	NA

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
3956	2408 4	OIL-BASED MUD	10.5	11							
0	819	WATER-BASED MUD	8.4	8.9							
2271	3956	WATER-BASED MUD	8.8	9.3							
819	2271	SALT SATURATED	10	10.5							

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Section 6 - Test, Logging, Coring

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

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

Open hole logging will not be done on this well.

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

GAMMA RAY LOG, CEMENT BOND LOG, DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD

LOG/GEOLOGICAL LITHOLOGY LOG, Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5566 Anticipated Surface Pressure: 3425

Anticipated Bottom Hole Temperature(F): 185

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO Energy H2S Plan Updated 20240913100540.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BIG_EDDY_UNIT_DI_5_WEST_27_20_3H_DD_20230726094243.pdf

Other proposed operations facets description:

XTO Permian Operating LLC will abide by R-111-Q and monitor separation Distance to offsets and maintain a Separation Factor greater than 1.0 while drilling through the salt intervals. For blind or inclination only wells, XTO Permian Operating LLC will maintain greater than 300 center-to-center separation.

Other proposed operations facets attachment:

BIG_EDDY_UNIT_DI_5_WEST_MBS_20240605025807.pdf

BIG_EDDY_UNIT_DI_5_WEST_H2S_DiaA_20240913100652.pdf

CMT DI 5 3H 20241128120659.pdf

Well_Bore_Diagram___4_string_design___Capitan_reef_20241128120733.pdf

Big_Eddy_Unit_DI_5_West___GCP_20241128120809.pdf

Other Variance attachment:

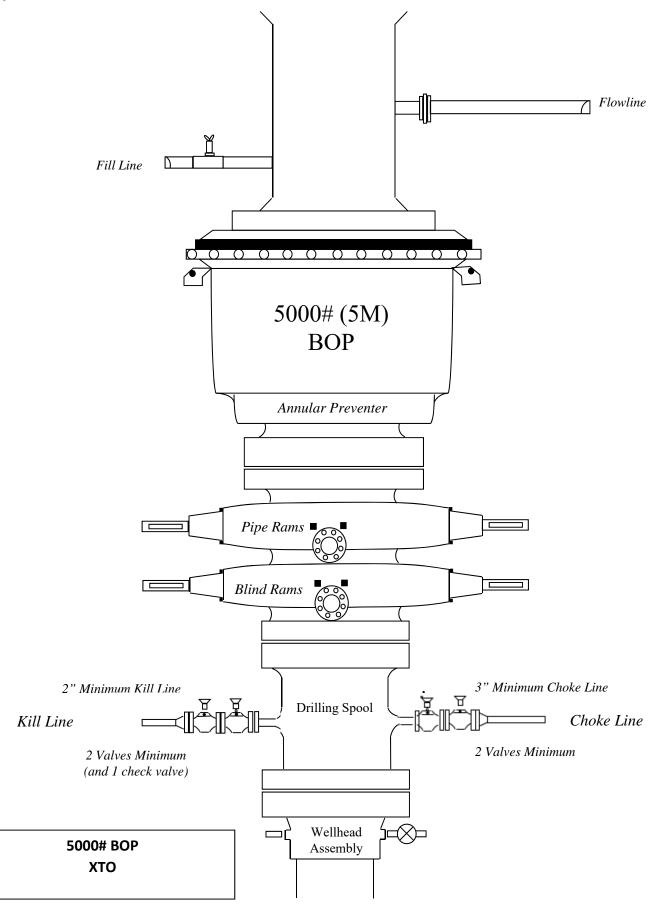
BIG_EDDY_UNIT_DI_5_WEST_OLCV_20230720103809.pdf

BOP_Break_Test_Variance_20240823094701.pdf

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Spudder_Rig_Request_20240823094754.pdf Updated_Flex_Hose_20240823094809.pdf

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U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

P110 RY USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	110,000		psi	
Maximum Yield Strength	125,000		psi	
Minimum Tensile Strength	125,000		psi	
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		
Outside Diameter	5.500	5.900	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	11,100	11,100	psi	
Minimum Internal Yield Pressure	12,640	12,640	psi	
Minimum Pipe Body Yield Strength	641,000		lb	
Joint Strength		641,000	lb	
Compression Rating		641,000	lb	
Reference Length		21,370	ft	[5]
Maximum Uniaxial Bend Rating		91.7	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		17,000	ft-lb	[4]
Maximum Make-Up Torque		20,000	ft-lb	[4]
Maximum Operating Torque		39,500	ft-lb	[4]

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- 6. Coupling must meet minimum mechanical properties of the pipe.

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

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U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

P110 RY USS-FREEDOM HTQ®

MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ [®]	
Minimum Yield Strength	110,000		psi
Maximum Yield Strength	125,000		psi
Minimum Tensile Strength	125,000		psi
DIMENSIONS	Pipe	USS-FREEDOM HTQ [®]	
Outside Diameter	5.500	6.300	in.
Wall Thickness	0.361		in.
Inside Diameter	4.778	4.778	in.
Standard Drift	4.653	4.653	in.
Alternate Drift			in.
Nominal Linear Weight, T&C	20.00		lb/ft
Plain End Weight	19.83		lb/ft
SECTION AREA	Pipe	USS-FREEDOM HTQ®	
Critical Area	5.828	5.828	sq. in.
Joint Efficiency		100.0	%
ERFORMANCE	Pipe	USS-FREEDOM HTQ®	
Minimum Collapse Pressure	11,100	11,100	psi
Minimum Internal Yield Pressure	12,640	12,640	psi
Minimum Pipe Body Yield Strength	641,000		lb
Joint Strength		641,000	lb
Compression Rating		641,000	lb
Reference Length [4]		21,370	ft
Maximum Uniaxial Bend Rating [2]		91.7	deg/100 ft
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ®	
Make-Up Loss		4.13	in.
Minimum Make-Up Torque [3]		15,000	ft-lb
Maximum Make-Up Torque [3]		21,000	ft-lb
Maximum Operating Torque[3]		29,500	ft-lb

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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> U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S

1-877-893-9461 connections@uss.com

Relectived b	y OCD: 1the 7(2025 3:24	: 2₺₽M g	Weight	Grade	Collar	New/Used	SF Burst	Page 2 Collapse	7 of \$54 Tension
17.5	0' – 819'	13.375	54.5	J-55	BTC	New	4.02	3.16	20.36
12.25	0' – 2271'	9.625	40	J-55	BTC	New	4.20	3.98	6.94
8.75	0' – 2371'	7.625	29.7	HC L-80	Flush Joint	New	2.17	5.11	3.46
8.75	2371' – 3956'	7.625	29.7	HC L-80	Flush Joint	New	2.17	8.60	9.21
6.75	0' – 3856'	5.5	20	RY P-110	Semi-Premium / Freedom HTQ	New	1.05	5.27	2.09
6.75	3856' - 24084'	5.5	20	RY P-110	Semi-Flush / Talon HTQ	New	1.05	2.09	2.80



XTO Energy

EDDY COUNTY, NM (NAD-27 / NME) BIG EDDY UNIT DI 5 WEST 27-20 3H

Wellbore #1

Plan: PERMIT

Standard Planning Report

31 May, 2023

Released to Imaging: 2/6/2025 4:13.

Rustler

Salado

Base Salt

Delaware

Brushy Canyon

Basal Brushy Canyon Bone Spring Lime

-2000

-1000

2000

4000

usft/in)

Depth

Vertical

Project: EDDY COUNTY, NM (NAD-27 / NME) Site: BIG EDDY UNIT DI 5 WEST 27-20

Well: 3H

Wellbore: Wellbore #1 Design: PERMIT

WELL DETAILS: 3H

Rig Name: TBD GL @ 3525.00usft (TBD) Ground Level: 3525.00

+E/-W 0.00 Latittude Longitude -103.8553723 +N/-S Northing 562902.70 Easting 0.00 647280.40 32.5466192

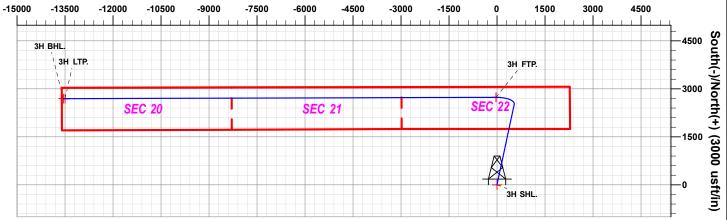
SECTION DETAILS

_										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	•
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	3063.31	21.27	12.10	3039.07	190.75	40.88	2.00	12.10	-41.45	
4	9624.20	21.27	12.10	9153.19	2517.55	539.61	0.00	0.00	-547.08	
5	10568.40	90.00	269.83	9730.00	2735.20	-32.30	10.00	-101.46	24.18	3H FTP.
6	24034.36	90.00	269.83	9730.00	2694.75	-13498.20	0.00	0.00	13490.14	3H LTP.
7	24084.36	90.00	269.83	9730.00	2694.60	-13548.20	0.00	0.00	13540.15	3H BHL

DESIGN TARGET DETAILS

Name 3H SHL. 3H BHL.	TVD 0.00 9730.00	+N/-S 0.00 2694.60	+E/-W 0.00 -13548.20	Northing 562902.70 565597.30	Easting 647280.40 633732.20	Latitude 32.5466192 32.5541855	Longitude -103.8553723 -103.8993027	
3H FTP. 3H LTP.	9730.00 9730.00	2735.20 2694.80	-32.30 -13498.20	565637.90 565597.50	647248.10 633782.20	32.5541380 32.5541855	-103.8554373 -103.8991405	
JII LIF.	9130.00	2094.00	-13490.20	303337.30	033702.20	32.3341033	-103.0331403	

West(-)/East(+) (3000 usft/in)





3H SHL

Start Build 2.00

TVDPath	Formation
643.00	Rustler
919.00	Salado
2171.00	Base Salt
2831.00	Capitan
3906.00	Delaware
5863.00	Brushy Canyon
7252.00	Basal Brushy Canyon
7439.00	Bone Spring Lime
7634.00	Avalon Shale Upper SH
8137.00	Avalon Shale Lower SH
8372.00	1st Bone Spring Lime
8713.00	1st Bone Spring Sand
9074.00	2nd Bone Spring Lime
9174.00	2nd Bone Spring Sand
9570.00	Target Top
9730.00	Landing Point

Avalon Shale Upper SH Avaion Shale Lower SH 1st Bone Spring Lime 1st Bone Spring Sand Start DLS 10.00 TFO -101.46 2nd Bone Spring Lime 2nd Bone Spring Sand LP at 10568.40 MD Landing Point Target Base 3rd Bone Spring Lime 10000 3H BHL. 3H FTP. TD at 24084.36 11000

6000

7000

8000

9000

Vertical Section at 269.83° (2000 usft/in)

10000

11000

12000

13000

14000

PROJECT DETAILS: EDDY COUNTY, NM (NAD-27 / NME)

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

Plan: PERMIT (3H/Wellbore #1)

Created By: Matthew May Date: 10:48, May 31 2023

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1000

2000

3000

4000

5000



EDM 5000.1.13 Single User Db Database:

Company: XTO Energy

Project: EDDY COUNTY, NM (NAD-27 / NME) BIG EDDY UNIT DI 5 WEST 27-20 Site:

Well:

Wellbore: Wellbore #1 Design: **PERMIT**

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 3H

GL @ 3525.00usft (TBD) GL @ 3525.00usft (TBD)

Minimum Curvature

Project EDDY COUNTY, NM (NAD-27 / NME)

Map System: US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS) Geo Datum: Map Zone:

New Mexico East 3001

System Datum: Mean Sea Level

BIG EDDY UNIT DI 5 WEST 27-20 Site

Site Position: Northing: 562,903.10 usft Latitude: 32.5466196 From: Мар Easting: 647,340.10 usft Longitude: -103.8551785 **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.26°

Well 3H

Well Position +N/-S Latitude: -0.40 usft Northing: 562,902.70 usft 32.5466192 +E/-W -59.70 usft Easting: 647,280.40 usft Longitude: -103.8553723

Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft **Ground Level:** 3,525.00 usft

Wellbore #1 Wellbore

Model Name Field Strength **Magnetics** Sample Date Declination **Dip Angle** (°) (nT) (°) IGRF2020 60.09 47.451 05/31/23 6.47

Design **PERMIT**

Audit Notes:

Version: Phase: **PLAN** Tie On Depth: 0.00

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 269.83

Plan Sections											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00	0.00	0.00	0.00	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		
3,063.31	21.27	12.10	3,039.07	190.75	40.88	2.00	2.00	0.00	12.10		
9,624.20	21.27	12.10	9,153.19	2,517.55	539.61	0.00	0.00	0.00	0.00		
10,568.40	90.00	269.83	9,730.00	2,735.20	-32.30	10.00	7.28	-10.83	-101.46	3H FTP.	
24,034.36	90.00	269.83	9,730.00	2,694.75	-13,498.20	0.00	0.00	0.00	0.00	3H LTP.	
24,084.36	90.00	269.83	9,730.00	2,694.60	-13,548.20	0.00	0.00	0.00	0.00	3H BHL.	



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: EDDY COUNTY, NM (NAD-27 / NME)
Site: BIG EDDY UNIT DI 5 WEST 27-20

Well: 3H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 3H

GL @ 3525.00usft (TBD) GL @ 3525.00usft (TBD)

Grid

anned Survey									
Measured Depth (usft)	I Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3H SHL. 100.00 200.00 300.00 400.00	0 0.00 0 0.00 0 0.00	0.00 0.00 0.00 0.00	100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
500.0 600.0 643.0	0.00 0 0.00	0.00 0.00 0.00	500.00 600.00 643.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Rustler 700.00		0.00 0.00	700.00 800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
900.0	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
919.0 Salado	0.00	0.00	919.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.0 1,100.0 1,200.0	0.00	0.00 0.00 0.00	1,000.00 1,100.00 1,200.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1,300.0 1,400.0 1,500.0 1,600.0 1,700.0	0 0.00 0 0.00 0 0.00	0.00 0.00 0.00 0.00 0.00	1,300.00 1,400.00 1,500.00 1,600.00 1,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 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
1,800.0 1,900.0 2,000.0 2,100.0 2,171.1	0 0.00 0 0.00 0 0.00 0 2.00	0.00 0.00 0.00 12.10 12.10	1,800.00 1,900.00 2,000.00 2,099.98 2,171.00	0.00 0.00 0.00 1.71 4.99	0.00 0.00 0.00 0.37 1.07	0.00 0.00 0.00 -0.37 -1.09	0.00 0.00 0.00 2.00 2.00	0.00 0.00 0.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
Base Sa		12.10	2,171.00	4.55	1.07	-1.00	2.00	2.00	0.00
2,200.00 2,300.00 2,400.00 2,500.00 2,600.00	0 6.00 0 8.00 0 10.00	12.10 12.10 12.10 12.10 12.10	2,199.84 2,299.45 2,398.70 2,497.47 2,595.62	6.82 15.35 27.26 42.56 61.21	1.46 3.29 5.84 9.12 13.12	-1.48 -3.33 -5.92 -9.25 -13.30	2.00 2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
2,700.00 2,800.00 2,843.11	0 16.00	12.10 12.10 12.10	2,693.06 2,789.64 2,831.00	83.21 108.51 120.44	17.83 23.26 25.81	-18.08 -23.58 -26.17	2.00 2.00 2.00	2.00 2.00 2.00	0.00 0.00 0.00
Capitan 2,900.00 3,000.00		12.10 12.10	2,885.27 2,979.82	137.10 168.93	29.39 36.21	-29.79 -36.71	2.00 2.00	2.00 2.00	0.00 0.00
3,063.3 3,100.0 3,200.0 3,300.0 3,400.0	0 21.27 0 21.27 0 21.27	12.10 12.10 12.10 12.10 12.10	3,039.07 3,073.26 3,166.45 3,259.64 3,352.83	190.75 203.76 239.22 274.69 310.15	40.88 43.67 51.27 58.88 66.48	-41.45 -44.28 -51.98 -59.69 -67.40	2.00 0.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,500.00 3,600.00 3,700.00 3,800.00 3,900.00	0 21.27 0 21.27 0 21.27	12.10 12.10 12.10 12.10 12.10	3,446.02 3,539.21 3,632.40 3,725.59 3,818.78	345.62 381.08 416.54 452.01 487.47	74.08 81.68 89.28 96.88 104.49	-75.10 -82.81 -90.52 -98.22 -105.93	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
3,993.5 Delawar		12.10	3,906.00	520.67	111.60	-113.14	0.00	0.00	0.00
4,000.0		12.10	3,911.97	522.94	112.09	-113.64	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

EDDY COUNTY, NM (NAD-27 / NME) Project: BIG EDDY UNIT DI 5 WEST 27-20 Site:

Well: Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 3H

GL @ 3525.00usft (TBD) GL @ 3525.00usft (TBD)

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)
4,100.00	21.27	12.10	4,005.16	558.40	119.69	-121.34	0.00	0.00	0.00
4,200.00	21.27	12.10	4,098.35	593.87	127.29	-129.05	0.00	0.00	0.00
4,300.00	21.27	12.10	4,191.54	629.33	134.89	-136.76	0.00	0.00	0.00
4,400.00	21.27	12.10	4,284.73	664.80	142.49	-144.46	0.00	0.00	0.00
4,500.00	21.27	12.10	4,377.92	700.26	150.09	-152.17	0.00	0.00	0.00
4,600.00	21.27	12.10	4,471.11	735.73	157.70	-159.88	0.00	0.00	0.00
4,700.00	21.27	12.10	4,564.30	771.19	165.30	-167.58	0.00	0.00	0.00
4,800.00	21.27	12.10	4,657.49	806.66	172.90	-175.29	0.00	0.00	0.00
4,900.00	21.27	12.10	4,750.68	842.12	180.50	-183.00	0.00	0.00	0.00
5,000.00	21.27	12.10	4,843.87	877.59	188.10	-190.70	0.00	0.00	0.00
5,100.00	21.27	12.10	4,937.07	913.05	195.70	-198.41	0.00	0.00	0.00
5,200.00	21.27	12.10	5,030.26	948.52	203.30	-206.12	0.00	0.00	0.00
5,300.00	21.27	12.10	5,123.45	983.98	210.91	-213.82	0.00	0.00	0.00
5,400.00	21.27	12.10	5,216.64	1,019.45	218.51	-221.53	0.00	0.00	0.00
5,500.00	21.27	12.10	5,309.83	1,054.91	226.11	-229.24	0.00	0.00	0.00
5,600.00	21.27	12.10	5,403.02	1,090.38	233.71	-236.94	0.00	0.00	0.00
5,700.00	21.27	12.10	5,496.21	1,125.84	241.31	-244.65	0.00	0.00	0.00
5,800.00	21.27	12.10	5,589.40	1,161.30	248.91	-252.36	0.00	0.00	0.00
5,900.00	21.27	12.10	5,682.59	1,196.77	256.51	-260.06	0.00	0.00	0.00
6,000.00	21.27	12.10	5,775.78	1,232.23	264.12	-267.77	0.00	0.00	0.00
6,093.59	21.27	12.10	5,863.00	1,265.43	271.23	-274.98	0.00	0.00	0.00
Brushy Ca 6,100.00 6,200.00	21.27 21.27	12.10 12.10	5,868.97 5,962.16	1,267.70 1,303.16	271.72 279.32	-275.48 -283.18	0.00 0.00	0.00 0.00	0.00 0.00
6,300.00	21.27	12.10	6,055.35	1,338.63	286.92	-290.89	0.00	0.00	0.00
6,400.00	21.27	12.10	6,148.54	1,374.09	294.52	-298.60	0.00	0.00	0.00
6,500.00	21.27	12.10	6,241.73	1,409.56	302.12	-306.30	0.00	0.00	0.00
6,600.00	21.27	12.10	6,334.92	1,445.02	309.73	-314.01	0.00	0.00	0.00
6,700.00	21.27	12.10	6,428.11	1,480.49	317.33	-321.72	0.00	0.00	0.00
6,800.00	21.27	12.10	6,521.30	1,515.95	324.93	-329.42	0.00	0.00	0.00
6,900.00	21.27	12.10	6,614.49	1,551.42	332.53	-337.13	0.00	0.00	0.00
7,000.00	21.27	12.10	6,707.68	1,586.88	340.13	-344.84	0.00	0.00	0.00
7,100.00	21.27	12.10	6,800.88	1,622.35	347.73	-352.55	0.00	0.00	0.00
7,200.00	21.27	12.10	6,894.07	1,657.81	355.33	-360.25	0.00	0.00	0.00
7,300.00 7,400.00 7,500.00 7,584.09	21.27 21.27 21.27 21.27 3hy Canyon	12.10 12.10 12.10 12.10	6,987.26 7,080.45 7,173.64 7,252.00	1,693.28 1,728.74 1,764.21 1,794.03	362.94 370.54 378.14 384.53	-367.96 -375.67 -383.37 -389.85	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
7,600.00	21.27	12.10	7,266.83	1,799.67	385.74	-391.08	0.00	0.00	0.00
7,700.00	21.27	12.10	7,360.02	1,835.13	393.34	-398.79	0.00	0.00	0.00
7,784.75	21.27	12.10	7,439.00	1,865.19	399.78	-405.32	0.00	0.00	0.00
Bone Sprir 7,800.00 7,900.00 7,994.00		12.10 12.10 12.10 12.10	7,453.21 7,546.40 7,634.00	1,870.60 1,906.06 1,939.40	400.94 408.54 415.69	-406.49 -414.20 -421.44	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	ale Upper SH								
8,000.00 8,100.00 8,200.00 8,300.00 8,400.00	21.27 21.27 21.27 21.27 21.27 21.27	12.10 12.10 12.10 12.10 12.10	7,639.59 7,732.78 7,825.97 7,919.16 8,012.35 8,105.54	1,941.53 1,976.99 2,012.46 2,047.92 2,083.39 2,118.85	416.15 423.75 431.35 438.95 446.55	-421.91 -429.61 -437.32 -445.03 -452.73	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 0.00 0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

EDDY COUNTY, NM (NAD-27 / NME) Project: BIG EDDY UNIT DI 5 WEST 27-20 Site:

Well: Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 3H

GL @ 3525.00usft (TBD) GL @ 3525.00usft (TBD)

anned Surv	ey									
Measu Depti (usft	h Ind	clination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,533		21.27	12.10	8,137.00	2,130.82	456.72	-463.04	0.00	0.00	0.00
8,600 8,700 8,785	0.00 0.00 5.93	21.27 21.27 21.27 21.27	12.10 12.10 12.10	8,198.73 8,291.92 8,372.00	2,154.32 2,189.78 2,220.26	461.76 469.36 475.89	-468.15 -475.85 -482.47	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1st Bo	one Sprir	ng Lime								
8,800 8,900 9,000 9,100 9,15	0.00 0.00 0.00 1.85	21.27 21.27 21.27 21.27 21.27	12.10 12.10 12.10 12.10 12.10	8,385.11 8,478.30 8,571.49 8,664.69 8,713.00	2,225.25 2,260.71 2,296.18 2,331.64 2,350.03	476.96 484.56 492.16 499.76 503.70	-483.56 -491.27 -498.97 -506.68 -510.67	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
	one Sprir	_								
9,200 9,300 9,400 9,500 9,539	0.00 0.00 0.00 9.22	21.27 21.27 21.27 21.27 21.27	12.10 12.10 12.10 12.10 12.10	8,757.88 8,851.07 8,944.26 9,037.45 9,074.00	2,367.11 2,402.57 2,438.04 2,473.50 2,487.41	507.36 514.97 522.57 530.17 533.15	-514.39 -522.09 -529.80 -537.51 -540.53	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
	one Spri	-								
9,600 9,624 9,646	4.20 6.50	21.27 21.27 20.93	12.10 12.10 5.97	9,130.64 9,153.19 9,174.00	2,508.96 2,517.55 2,525.47	537.77 539.61 540.87	-545.21 -547.08 -548.36	0.00 0.00 10.00	0.00 0.00 -1.50	0.00 0.00 -27.48
2nd B 9,650	Sone Spri	20.90	4.99	9.177.27	2,526.71	540.99	-548.49	10.00	-0.92	-27.89
9,700		21.05	351.00	9,223.98	2,544.47	540.36	-547.91	10.00	0.30	-27.98
9,750 9,800 9,850 9,900 9,950	0.00 0.00 0.00	22.30 24.48 27.36 30.76 34.51	337.86 326.49 317.13 309.55 303.42	9,270.47 9,316.39 9,361.37 9,405.09 9,447.20	2,562.14 2,579.57 2,596.64 2,613.21 2,629.16	535.38 526.08 512.54 494.85 473.16	-542.98 -533.73 -520.24 -502.60 -480.96	10.00 10.00 10.00 10.00 10.00	2.50 4.35 5.77 6.79 7.50	-26.28 -22.73 -18.73 -15.15 -12.28
10,000 10,050 10,100 10,113	0.00 0.00 3.66	38.51 42.70 47.02 48.21	298.38 294.17 290.59 289.70	9,487.39 9,525.35 9,560.79 9,570.00	2,644.37 2,658.72 2,672.10 2,675.58	447.63 418.44 385.84 376.36	-455.47 -426.33 -393.76 -384.30	10.00 10.00 10.00 10.00	8.01 8.37 8.63 8.77	-10.08 -8.42 -7.16 -6.52
Targe 10,150		51.43	287.48	9,593.44	2,684.41	350.05	-358.01	10.00	8.85	-6.10
10,130 10,230 10,330 10,350 10,400	0.00 0.00 0.00 0.00	55.91 60.46 65.04 69.65 74.29	284.74 282.28 280.03 277.94 275.97	9,623.06 9,649.41 9,672.31 9,691.56 9,707.03	2,695.56 2,705.46 2,714.04 2,721.22 2,726.96	311.36 270.06 226.46 180.90 133.71	-319.36 -278.08 -234.51 -188.97 -141.80	10.00 10.00 10.00 10.00 10.00	8.97 9.08 9.16 9.23 9.27	-5.16 -5.48 -4.93 -4.50 -4.18 -3.93
10,450 10,500 10,550 10,568	0.00 0.00 8.40	78.94 83.61 88.28 90.00	274.09 272.27 270.48 269.83	9,718.61 9,726.19 9,729.72 9,730.00	2,731.22 2,733.96 2,735.15 2,735.20	85.27 35.94 -13.90 -32.30	-93.38 -44.06 5.78 24.18	10.00 10.00 10.00 10.00	9.31 9.33 9.34 9.35	-3.76 -3.64 -3.57 -3.56
Landi 10,600	•	- 3H FTP. 90.00	269.83	9,730.00	2,735.11	-63.90	55.78	0.00	0.00	0.00
10,700 10,800 10,800 10,900 11,000	0.00 0.00 0.00 0.00	90.00 90.00 90.00 90.00 90.00	269.83 269.83 269.83 269.83 269.83	9,730.00 9,730.00 9,730.00 9,730.00 9,730.00 9,730.00	2,734.80 2,734.50 2,734.20 2,733.90 2,733.60	-163.90 -263.90 -363.90 -463.90 -563.89	155.78 255.78 355.78 455.78 555.78	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
11,200 11,300		90.00 90.00	269.83 269.83	9,730.00 9,730.00	2,733.30 2,733.00	-663.89 -763.89	655.78 755.78	0.00 0.00	0.00 0.00	0.00 0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: EDDY COUNTY, NM (NAD-27 / NME)
Site: BIG EDDY UNIT DI 5 WEST 27-20

Well: 3H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 3H

GL @ 3525.00usft (TBD) GL @ 3525.00usft (TBD)

Grid

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)
11,400.00	90.00	269.83	9,730.00	2,732.70	-863.89	855.78	0.00	0.00	0.00
11,500.00	90.00	269.83	9,730.00	2,732.40	-963.89	955.78	0.00	0.00	0.00
11,600.00	90.00	269.83	9,730.00	2,732.10	-1,063.89	1,055.78	0.00	0.00	0.00
11,700.00	90.00	269.83	9,730.00	2,731.80	-1,163.89	1,155.78	0.00	0.00	0.00
11,800.00	90.00	269.83	9,730.00	2,731.50	-1,263.89	1,255.78	0.00	0.00	0.00
11,900.00	90.00	269.83	9,730.00	2,731.20	-1,363.89	1,355.78	0.00	0.00	0.00
12,000.00	90.00	269.83	9,730.00	2,730.90	-1,463.89	1,455.78	0.00	0.00	0.00
12,100.00	90.00	269.83	9,730.00	2,730.60	-1,563.89	1,555.78	0.00	0.00	0.00
12,200.00	90.00	269.83	9,730.00	2,730.30	-1,663.89	1,655.78	0.00	0.00	0.00
12,300.00	90.00	269.83	9,730.00	2,730.00	-1,763.89	1,755.78	0.00	0.00	0.00
12,400.00	90.00	269.83	9,730.00	2,729.70	-1,863.89	1,855.78	0.00	0.00	0.00
12,500.00	90.00	269.83	9,730.00	2,729.40	-1,963.89	1,955.78	0.00	0.00	0.00
12,600.00	90.00	269.83	9,730.00	2,729.10	-2,063.89	2,055.78	0.00	0.00	0.00
12,700.00	90.00	269.83	9,730.00	2,728.80	-2,163.89	2,155.78	0.00	0.00	0.00
12,800.00	90.00	269.83	9,730.00	2,728.50	-2,263.89	2,255.78	0.00	0.00	0.00
12,900.00	90.00	269.83	9,730.00	2,728.20	-2,363.89	2,355.78	0.00	0.00	0.00
13,000.00	90.00	269.83	9,730.00	2,727.90	-2,463.89	2,455.78	0.00	0.00	0.00
13,100.00	90.00	269.83	9,730.00	2,727.60	-2,563.89	2,555.78	0.00	0.00	0.00
13,200.00	90.00	269.83	9,730.00	2,727.30	-2,663.89	2,655.78	0.00	0.00	0.00
13,300.00	90.00	269.83	9,730.00	2,726.99	-2,763.88	2,755.78	0.00	0.00	0.00
13,400.00	90.00	269.83	9,730.00	2,726.69	-2,863.88	2,855.78	0.00	0.00	0.00
13,500.00	90.00	269.83	9,730.00	2,726.39	-2,963.88	2,955.78	0.00	0.00	0.00
13,600.00	90.00	269.83	9,730.00	2,726.09	-3,063.88	3,055.78	0.00	0.00	0.00
13,700.00	90.00	269.83	9,730.00	2,725.79	-3,163.88	3,155.78	0.00	0.00	0.00
13,800.00	90.00	269.83	9,730.00	2,725.49	-3,263.88	3,255.78	0.00	0.00	0.00
13,900.00	90.00	269.83	9,730.00	2,725.19	-3,363.88	3,355.78	0.00	0.00	0.00
14,000.00	90.00	269.83	9,730.00	2,724.89	-3,463.88	3,455.78	0.00	0.00	0.00
14,100.00	90.00	269.83	9,730.00	2,724.59	-3,563.88	3,555.78	0.00	0.00	0.00
14,200.00	90.00	269.83	9,730.00	2,724.29	-3,663.88	3,655.78	0.00	0.00	0.00
14,300.00	90.00	269.83	9,730.00	2,723.99	-3,763.88	3,755.78	0.00	0.00	0.00
14,400.00	90.00	269.83	9,730.00	2,723.69	-3,863.88	3,855.78	0.00	0.00	0.00
14,500.00	90.00	269.83	9,730.00	2,723.39	-3,963.88	3,955.78	0.00	0.00	0.00
14,600.00	90.00	269.83	9,730.00	2,723.09	-4,063.88	4,055.78	0.00	0.00	0.00
14,700.00	90.00	269.83	9,730.00	2,722.79	-4,163.88	4,155.78	0.00	0.00	0.00
14,800.00	90.00	269.83	9,730.00	2,722.49	-4,263.88	4,255.78	0.00	0.00	0.00
14,900.00	90.00	269.83	9,730.00	2,722.19	-4,363.88	4,355.78	0.00	0.00	0.00
15,000.00	90.00	269.83	9,730.00	2,721.89	-4,463.88	4,455.78	0.00	0.00	0.00
15,100.00	90.00	269.83	9,730.00	2,721.59	-4,563.88	4,555.78	0.00	0.00	0.00
15,200.00	90.00	269.83	9,730.00	2,721.29	-4,663.88	4,655.78	0.00	0.00	0.00
15,300.00	90.00	269.83	9,730.00	2,720.99	-4,763.88	4,755.78	0.00	0.00	0.00
15,400.00	90.00	269.83	9,730.00	2,720.69	-4,863.88	4,855.78	0.00	0.00	0.00
15,500.00	90.00	269.83	9,730.00	2,720.39	-4,963.87	4,955.78	0.00	0.00	0.00
15,600.00	90.00	269.83	9,730.00	2,720.09	-5,063.87	5,055.78	0.00	0.00	0.00
15,700.00	90.00	269.83	9,730.00	2,719.79	-5,163.87	5,155.78	0.00	0.00	0.00
15,800.00	90.00	269.83	9,730.00	2,719.49	-5,263.87	5,255.78	0.00	0.00	0.00
15,900.00	90.00	269.83	9,730.00	2,719.18	-5,363.87	5,355.78	0.00	0.00	0.00
16,000.00	90.00	269.83	9,730.00	2,718.88	-5,463.87	5,455.78	0.00	0.00	0.00
16,100.00	90.00	269.83	9,730.00	2,718.58	-5,563.87	5,555.78	0.00	0.00	0.00
16,200.00	90.00	269.83	9,730.00	2,718.28	-5,663.87	5,655.78	0.00	0.00	0.00
16,300.00	90.00	269.83	9,730.00	2,717.98	-5,763.87	5,755.78	0.00	0.00	0.00
16,400.00	90.00	269.83	9,730.00	2,717.68	-5,863.87	5,855.78	0.00	0.00	0.00
16,500.00	90.00	269.83	9,730.00	2,717.38	-5,963.87	5,955.78	0.00	0.00	0.00
16,600.00	90.00	269.83	9,730.00	2,717.08	-6,063.87	6,055.78	0.00	0.00	0.00
16,700.00	90.00	269.83	9,730.00	2,716.78	-6,163.87	6,155.78	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

EDDY COUNTY, NM (NAD-27 / NME) Project: BIG EDDY UNIT DI 5 WEST 27-20 Site:

Well: Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 3H

GL @ 3525.00usft (TBD) GL @ 3525.00usft (TBD)

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)
16,800.00	90.00	269.83	9,730.00	2,716.48	-6,263.87	6,255.78	0.00	0.00	0.00
16,900.00	90.00	269.83	9,730.00	2,716.18	-6,363.87	6,355.78	0.00	0.00	0.00
17,000.00	90.00	269.83	9,730.00	2,715.88	-6,463.87	6,455.78	0.00	0.00	0.00
17,100.00	90.00	269.83	9,730.00	2,715.58	-6,563.87	6,555.78	0.00	0.00	0.00
17,200.00	90.00	269.83	9,730.00	2,715.28	-6,663.87	6,655.78	0.00	0.00	0.00
17,300.00	90.00	269.83	9,730.00	2,714.98	-6,763.87	6,755.78	0.00	0.00	0.00
17,400.00	90.00	269.83	9,730.00	2,714.68	-6,863.87	6,855.78	0.00	0.00	0.00
17,500.00	90.00	269.83	9,730.00	2,714.38	-6,963.87	6,955.78	0.00	0.00	0.00
17,600.00	90.00	269.83	9,730.00	2,714.08	-7,063.87	7,055.78	0.00	0.00	0.00
17,700.00	90.00	269.83	9,730.00	2,713.78	-7,163.86	7,155.78	0.00	0.00	0.00
17,800.00	90.00	269.83	9,730.00	2,713.48	-7,263.86	7,255.78	0.00	0.00	0.00
17,900.00	90.00	269.83	9,730.00	2,713.18	-7,363.86	7,355.78	0.00	0.00	0.00
18,000.00	90.00	269.83	9,730.00	2,712.88	-7,463.86	7,455.78	0.00	0.00	0.00
18,100.00	90.00	269.83	9,730.00	2,712.58	-7,563.86	7,555.78	0.00	0.00	0.00
18,200.00	90.00	269.83	9,730.00	2,712.28	-7,663.86	7,655.78	0.00	0.00	0.00
18,300.00	90.00	269.83	9,730.00	2,711.98	-7,763.86	7,755.78	0.00	0.00	0.00
18,400.00	90.00	269.83	9,730.00	2,711.68	-7,863.86	7,855.78	0.00	0.00	0.00
18,500.00 18,600.00 18,700.00	90.00 90.00 90.00	269.83 269.83 269.83	9,730.00 9,730.00 9,730.00 9,730.00	2,711.06 2,711.37 2,711.07 2,710.77	-7,963.86 -7,963.86 -8,063.86	7,955.78 8,055.78 8,155.78	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
18,800.00	90.00	269.83	9,730.00	2,710.47	-8,263.86	8,255.78	0.00	0.00	0.00
18,900.00	90.00	269.83	9,730.00	2,710.17	-8,363.86	8,355.78	0.00	0.00	0.00
19,000.00	90.00	269.83	9,730.00	2,709.87	-8,463.86	8,455.78	0.00	0.00	0.00
19,100.00	90.00	269.83	9,730.00	2,709.57	-8,563.86	8,555.78	0.00	0.00	0.00
19,200.00	90.00	269.83	9,730.00	2,709.27	-8,663.86	8,655.78	0.00	0.00	0.00
19,300.00	90.00	269.83	9,730.00	2,708.97	-8,763.86	8,755.78	0.00	0.00	0.00
19,400.00	90.00	269.83	9,730.00	2,708.67	-8,863.86	8,855.78	0.00	0.00	0.00
19,500.00	90.00	269.83	9,730.00	2,708.37	-8,963.86	8,955.78	0.00	0.00	0.00
19,600.00	90.00	269.83	9,730.00	2,708.07	-9,063.86	9,055.78	0.00	0.00	0.00
19,700.00	90.00	269.83	9,730.00	2,707.77	-9,163.86	9,155.78	0.00	0.00	0.00
19,800.00	90.00	269.83	9,730.00	2,707.47	-9,263.86	9,255.78	0.00	0.00	0.00
19,900.00	90.00	269.83	9,730.00	2,707.17	-9,363.86	9,355.78	0.00	0.00	0.00
20,000.00	90.00	269.83	9,730.00	2,706.87	-9,463.85	9,455.78	0.00	0.00	0.00
20,100.00	90.00	269.83	9,730.00	2,706.57	-9,563.85	9,555.78	0.00	0.00	0.00
20,200.00	90.00	269.83	9,730.00	2,706.27	-9,663.85	9,655.78	0.00	0.00	0.00
20,300.00	90.00	269.83	9,730.00	2,705.97	-9,763.85	9,755.78	0.00	0.00	0.00
20,400.00	90.00	269.83	9,730.00	2,705.67	-9,863.85	9,855.78	0.00	0.00	0.00
20,500.00	90.00	269.83	9,730.00	2,705.37	-9,963.85	9,955.78	0.00	0.00	0.00
20,600.00	90.00	269.83	9,730.00	2,705.07	-10,063.85	10,055.78	0.00	0.00	0.00
20,700.00	90.00	269.83	9,730.00	2,704.77	-10,163.85	10,155.78	0.00	0.00	0.00
20,800.00	90.00	269.83	9,730.00	2,704.47	-10,263.85	10,255.78	0.00	0.00	0.00
20,900.00	90.00	269.83	9,730.00	2,704.17	-10,363.85	10,355.78	0.00	0.00	0.00
21,000.00	90.00	269.83	9,730.00	2,703.87	-10,463.85	10,455.78	0.00	0.00	0.00
21,100.00	90.00	269.83	9,730.00	2,703.56	-10,563.85	10,555.78	0.00	0.00	0.00
21,200.00	90.00	269.83	9,730.00	2,703.26	-10,663.85	10,655.78	0.00	0.00	0.00
21,300.00	90.00	269.83	9,730.00	2,702.96	-10,763.85	10,755.78	0.00	0.00	0.00
21,400.00	90.00	269.83	9,730.00	2,702.66	-10,863.85	10,855.78	0.00	0.00	0.00
21,500.00	90.00	269.83	9,730.00	2,702.36	-10,963.85	10,955.78	0.00	0.00	0.00
21,600.00	90.00	269.83	9,730.00	2,702.06	-11,063.85	11,055.78	0.00	0.00	0.00
21,700.00	90.00	269.83	9,730.00	2,701.76	-11,163.85	11,155.78	0.00	0.00	0.00
21,800.00	90.00	269.83	9,730.00	2,701.46	-11,263.85	11,255.78	0.00	0.00	0.00
21,900.00	90.00	269.83	9,730.00	2,701.16	-11,363.85	11,355.78	0.00	0.00	0.00
22,000.00	90.00	269.83	9,730.00	2,700.86	-11,463.85	11,455.78	0.00	0.00	0.00
22,100.00	90.00	269.83	9,730.00	2,700.56	-11,563.85	11,555.78	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: EDDY COUNTY, NM (NAD-27 / NME)
Site: BIG EDDY UNIT DI 5 WEST 27-20

Well: 3H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 3H

GL @ 3525.00usft (TBD) GL @ 3525.00usft (TBD)

Grid

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)
22,200.00 22,300.00 22,400.00 22,500.00 22,600.00	90.00 90.00 90.00 90.00 90.00	269.83 269.83 269.83 269.83	9,730.00 9,730.00 9,730.00 9,730.00 9,730.00	2,700.26 2,699.96 2,699.66 2,699.36 2,699.06	-11,663.84 -11,763.84 -11,863.84 -11,963.84 -12,063.84	11,655.78 11,755.78 11,855.78 11,955.78 12,055.78	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
22,700.00 22,800.00 22,900.00 23,000.00 23,100.00	90.00 90.00 90.00 90.00 90.00	269.83 269.83 269.83 269.83 269.83	9,730.00 9,730.00 9,730.00 9,730.00 9,730.00	2,698.76 2,698.46 2,698.16 2,697.86 2,697.56	-12,163.84 -12,263.84 -12,363.84 -12,463.84 -12,563.84	12,155.78 12,255.78 12,355.78 12,455.78 12,555.78	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
23,200.00 23,300.00 23,400.00 23,500.00 23,600.00	90.00 90.00 90.00 90.00 90.00	269.83 269.83 269.83 269.83 269.83	9,730.00 9,730.00 9,730.00 9,730.00 9,730.00	2,697.26 2,696.96 2,696.66 2,696.36 2,696.06	-12,663.84 -12,763.84 -12,863.84 -12,963.84 -13,063.84	12,655.78 12,755.78 12,855.78 12,955.78 13,055.78	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
23,700.00 23,800.00 23,900.00 24,000.00 24,034.36 3H LTP.	90.00 90.00 90.00 90.00 90.00	269.83 269.83 269.83 269.83 269.83	9,730.00 9,730.00 9,730.00 9,730.00 9,730.00	2,695.75 2,695.45 2,695.15 2,694.85 2,694.75	-13,163.84 -13,263.84 -13,363.84 -13,463.84 -13,498.20	13,155.78 13,255.78 13,355.78 13,455.78 13,490.15	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
24,084.36 3H BHL .	90.00	269.83	9,730.00	2,694.60	-13,548.20	13,540.15	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target [- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
3H SHL plan hits target cer - Point	0.00 nter	0.00	0.00	0.00	0.00	562,902.70	647,280.40	32.5466192	-103.8553723
3H FTP plan hits target cer - Point	0.00 nter	0.00	9,730.00	2,735.20	-32.30	565,637.90	647,248.10	32.5541380	-103.8554373
3H BHL plan hits target cer - Point	0.00 nter	0.00	9,730.00	2,694.60	-13,548.20	565,597.30	633,732.20	32.5541855	-103.8993027
3H LTP plan misses target - Point	0.00 center by		-,	,	-13,498.20 0.00 TVD, 26	565,597.50 94.75 N, -13498.	633,782.20 20 E)	32.5541855	-103.8991404



Planning Report

Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: EDDY COUNTY, NM (NAD-27 / NME)
Site: BIG EDDY UNIT DI 5 WEST 27-20

Well: 3H

Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 3H

GL @ 3525.00usft (TBD) GL @ 3525.00usft (TBD)

Grid

Minimum Curvature

Ti-	easured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	643.00	643.00	Rustler			
	919.00	919.00	Salado			
	2,171.10	2,171.00	Base Salt			
	2,843.12	2,831.00	Capitan			
	3,993.59	3,906.00	Delaware			
	6,093.59	5,863.00	Brushy Canyon			
	7,584.09	7,252.00	Basal Brushy Canyon			
	7,784.75	7,439.00	Bone Spring Lime			
	7,994.00	7,634.00	Avalon Shale Upper SH			
	8,533.76	8,137.00	Avalon Shale Lower SH			
	8,785.93	8,372.00	1st Bone Spring Lime			
	9,151.85	8,713.00	1st Bone Spring Sand			
	9,539.22	9,074.00	2nd Bone Spring Lime			
	9,646.50	9,174.00	2nd Bone Spring Sand			
1	10,113.66	9,570.00	Target Top			
1	0,568.40	9,730.00	Landing Point			

ALL DIMENSIONS APPROXIMA

CACTUS WELLHEAD LLC

(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And Drilling & Skid Configurations

	XTO ENERGY INC DELAWARE BASIN				
	DELAWAITE BASI	11			
DRAWN	VJK	31M			

DRAWING NO.

SDT-3301

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

Cement Variance Request

Intermediate Casing:

XTO requests to pump a single stage cement job on the second intermediate casing string, with slurries pumped conventionally with the first slurry top of cement at Capitan Reef (2831') and the second slurry performed with planned cement from the Capitan Reef to surface.

Production Casing:

"XTO requests to pump a single stage cement job on the 5.5" Production casing string with two slurries pumped conventionally, the first slurry with calculated top of cement at KOP @ 11,264' MD, and the second slurry with planned cement from KOP base of brushy Canyon.

In case the initial cement job do not reach the desired top of cement, a post completion bradenhead squeeze will be performed to tied back the 2nd intermediate x production casing annulus TOC into the 2nd intermediate shoe but below of potash interval

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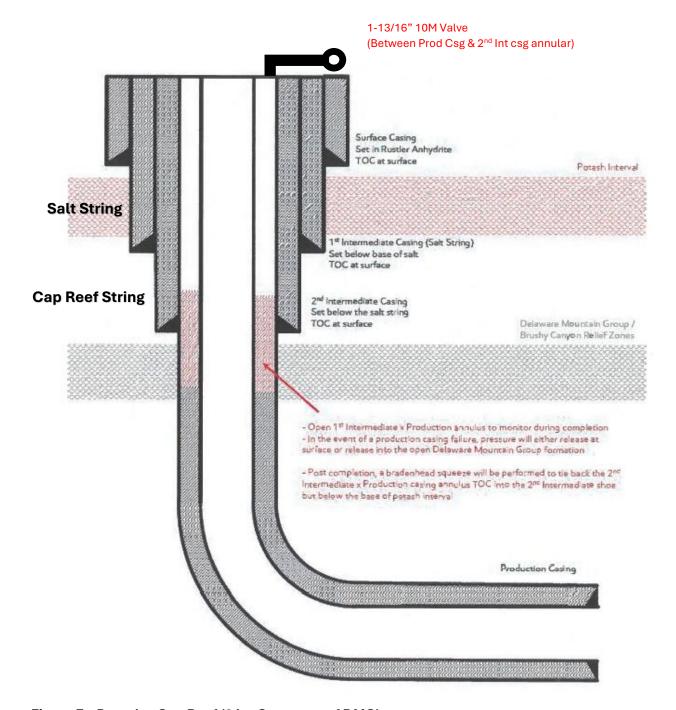


Figure E – Potash + Cap Reef (2 Int Csg at top of DMG)

Updated May 2024:

XTO is aware of the R-111-Q update and will comply with these requirements including (but not limited to):

- Alignment with KPLA requirements per schematic above, leaving open annulus for pressure mnoitoring during frac and utilizing new casing that meets API standards.
- 2. Contingency plans in place to divert formation fluids away fromm salt interval in even of production casin failure.
- Bradenhead squeeze to be completed within 180 days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126.
- 4. Productin Cement to be tied back no less than 500ft inside previous casing shoe

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.

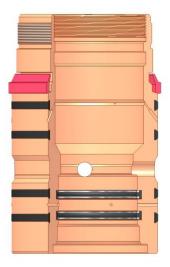
1. Cement Program

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

2. Offline Cementing Procedure

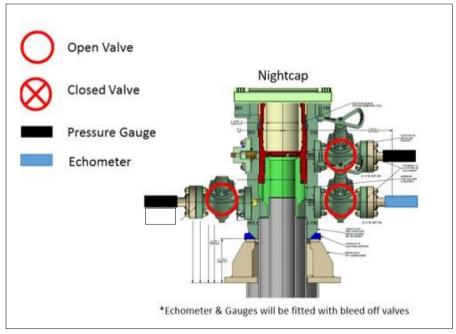
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

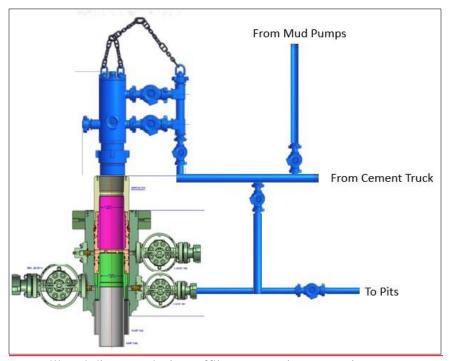
XTO Permian Operating, LLC Offline Cementing Variance Request



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.

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

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

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

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

bie C.4—Initial Pressure Te		Lligh Proceure
Pressure Test—Low Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ПР
250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,
250 to 350 (1.72 to 2.41)	MASP for the well program	
e during the evaluation period. The person that the evaluation period is the same that the evaluation period is the same that the evaluation period is the evaluation period.	oressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program.
	Pressure Test—Low Pressure ²⁶ psig (MPa) 250 to 350 (1.72 to 2.41) 250 to 350 (1.72 to 2.41)	Pressureac psig (MPa) Change Out of Component, Elastomer, or Ring Gasket 250 to 350 (1.72 to 2.41) RWP of annular preventer or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of side outlet valve or wellhead system, whichever is lower RWP of ram preventer or wellhead system, whichever is lower RWP of side outlet valve or wellhead system, whichever is lower RWP of ram preventers or wellhead system, whichever is lower RWP of valve(s), line(s), or Now whichever is lower 250 to 350 (1.72 to 2.41) RWP of valve(s), line(s), or Now hichever is lower MASP for the well program and uning the evaluation period. The pressure shall not decrease below the sessure tested on the largest and smallest OD drill pipe to be used in well from one wellhead to another within the 21 days, pressure testing is required.

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

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

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 Oand often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

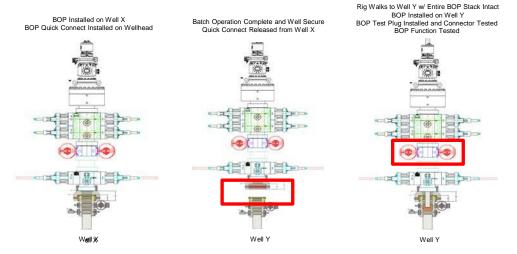
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

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

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

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



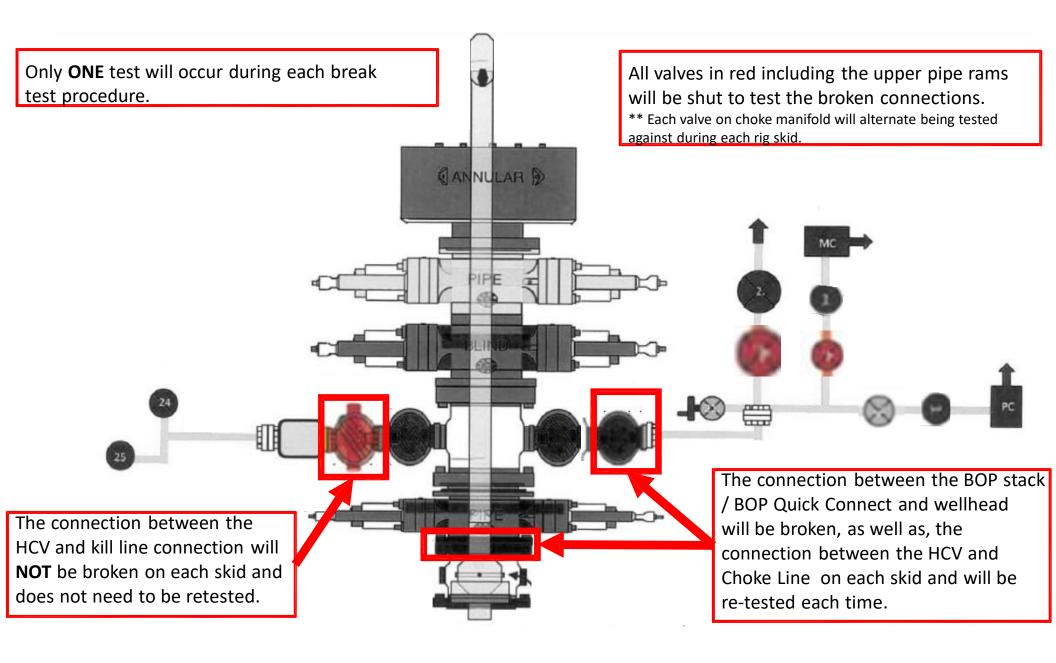
Summary

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

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

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

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



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

Description of Operations:

- Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.



GATES ENGINEERING & SERVICES NORTH AMERICA

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Houston, TX. 77086

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FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com

WEB: www.gates.com/oilandgas

NEW CHOKE HOSE

INSTAUED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUST	TOMER:	
------	--------	--

NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA

CUSTOMER P.O.#:

15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)

CUSTOMER P/N:

IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION:

RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K

FLANGES

SALES ORDER #:

529480

QUANTITY:

1

SERIAL #:

74621 H3-012524-1

SIGNATURE: F. CUSTUSE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15/16





TEST REPORT

CUSTOMER

Company:

Nabors Industries Inc.

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Production description:

74621/66-1531

Description:

74621/66-1531

Sales order #:

529480

Customer reference:

FG1213

Hose ID: Part number: 3" 16C CK

TEST INFORMATION

Test procedure:

GTS-04-053

Fitting 1:

Test pressure:

15000.00

Part number:

3.0 x 4-1/16 10K

Test pressure hold: Work pressure:

3600.00

Description:

Work pressure hold:

10000.00 900.00

Fitting 2:

3.0 x 4-1/16 10K

Length difference: Length difference:

Pressure test result:

0.00 0.00 sec % inch

psi

sec

psi

Part number: Description:

Visual check:

PASS

Length measurement result:

Length:

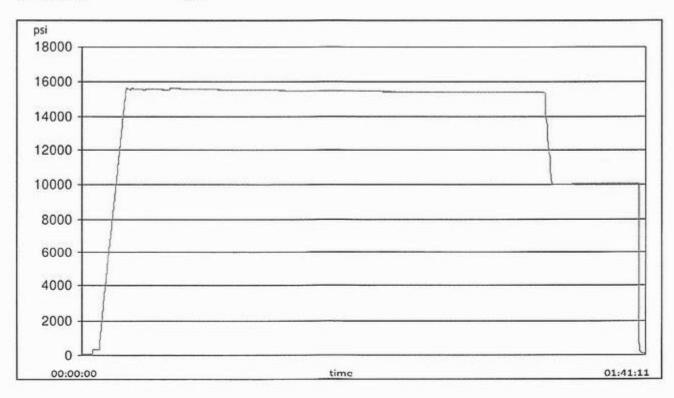
45

feet

n /n

Test operator:

Travis





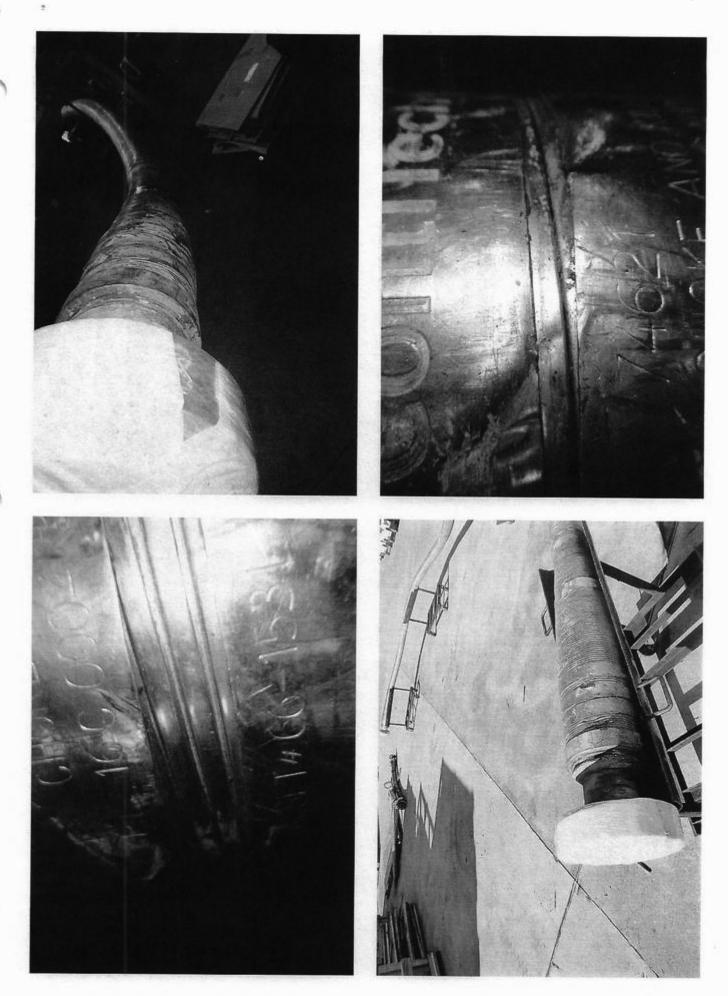
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TEST REPORT

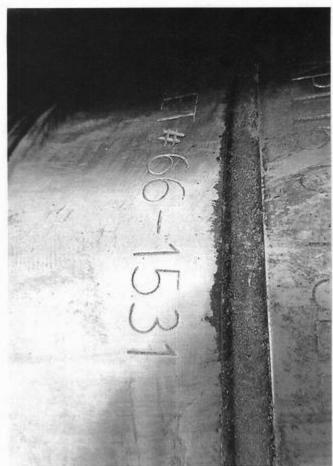
GAUGE TRACEABILITY

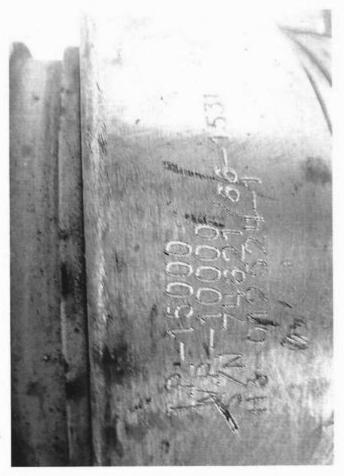
Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16
Comment			

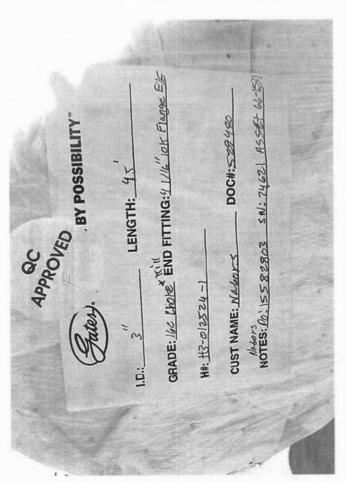


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PECOS DISTRICT

SURFACE USE

CONDITIONS OF APPROVAL

OPERATOR'S NAME:

XTO Permian Operating LLC

LEASE NO.:

NMLC0065431

COUNTY:

Eddy County, New Mexico

Wells:

BIG EDDY UNIT DI 5 WEST 27-20 #1H: Slot B 3

Surface Hole Location: 1,745' FNL & 2,230' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 2,310' FSL & 50' FWL, Section 20, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-20 #2H: Slot B 2

Surface Hole Location: 1,745' FNL & 2,260' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 1,650' FSL & 50' FWL, Section 20, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-20 #3H: Slot B 1

Surface Hole Location: 1,745' FNL & 2,290' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 990' FSL & 50' FWL, Section 20, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-20 #4H: Slot C 3

Surface Hole Location: 1,870' FNL & 2,230' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 330' FSL & 50' FWL, Section 20, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-29 #5H: Slot C 2

Surface Hole Location: 1,870' FNL & 2,260' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 330' FNL & 50' FWL, Section 29, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-29 #6H: Slot C 1

Surface Hole Location: 1,870' FNL & 2,290' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 990' FNL & 50' FWL, Section 29, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-29 #7H: Slot D 1

Surface Hole Location: 1,945' FNL & 2,290' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 1,650' FNL & 50' FWL, Section 29, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-29 #8H: Slot D 2

Surface Hole Location: 1,945' FNL & 2,260' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 2,310' FNL & 50' FWL, Section 20, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-29 #9H: Slot D 3

Surface Hole Location: 1,945' FNL & 2,230' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 2,310' FSL & 50' FWL, Section 29, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-29 #10H: Slot E 1

Surface Hole Location: 2,070' FNL & 2,290' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 1,650' FSL & 50' FWL, Section 29, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-29 #11H: Slot E 2

Surface Hole Location: 2,070' FNL & 2,260' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 990' FSL & 50' FWL, Section 29, T. 20 S. R. 31 E.

BIG EDDY UNIT DI 5 WEST 27-29 #12H: Slot E 3

Surface Hole Location: 2,070' FNL & 2,230' FEL, Section 27, T. 20 S. R. 31 E. Bottom Hole Location: 330' FSL & 50' FWL, Section 29, T. 20 S. R. 31 E.

Future Well #1: Slot C 4

Surface Hole Location: 2,105' FEL & 1,945' FNL, Section 27, T. 20 S. R. 31 E.

Bottom Hole Location: To Be Determined

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1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.

- 1. Temporary halting of all construction, drilling, and production activities to lower noise.
- 2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. Cattleguards

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (Peganum harmala)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM_NM_CFO_NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. **Downfacing**

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. Shielding

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. Lighting Color

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

2.1.1. Tank Battery

Tank battery locations will be lined and bermed. A 20-mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hourproduction, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity). Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.1.2. Buried/Surface Line(s)

When crossing ephemeral drainages, the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons must be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences must be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars must be placed within the corridor to divert and dissipate surface runoff. A pipeline access road is not permitted to cross ephemeral drainages. Traffic must be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

2.1.3. Electric Line(s)

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole must not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that does not promote further erosion.

2.3 VISUAL RESOURCE MANAGEMENT

2.5.1 **VRM IV**

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

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2.5. CONSTRUCTION REQUIRENMENTS

3.1 CONSTRCUTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of $1\frac{1}{2}$ inches. The netting must not have holes or gaps.

3.7 ON LEASE ACESS ROAD

3.7.1 Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

3.7.2 **Surfacing**

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements will be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

3.7.3 Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

3.7.4 **Ditching**

Ditching shall be required on both sides of the road.

3.7.5 **Turnouts**

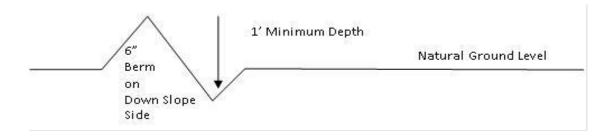
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, leadoff ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\underline{400'} + 100' = 200'$ lead-off ditch interval

3.7.7 **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road
- Revegetate slopes

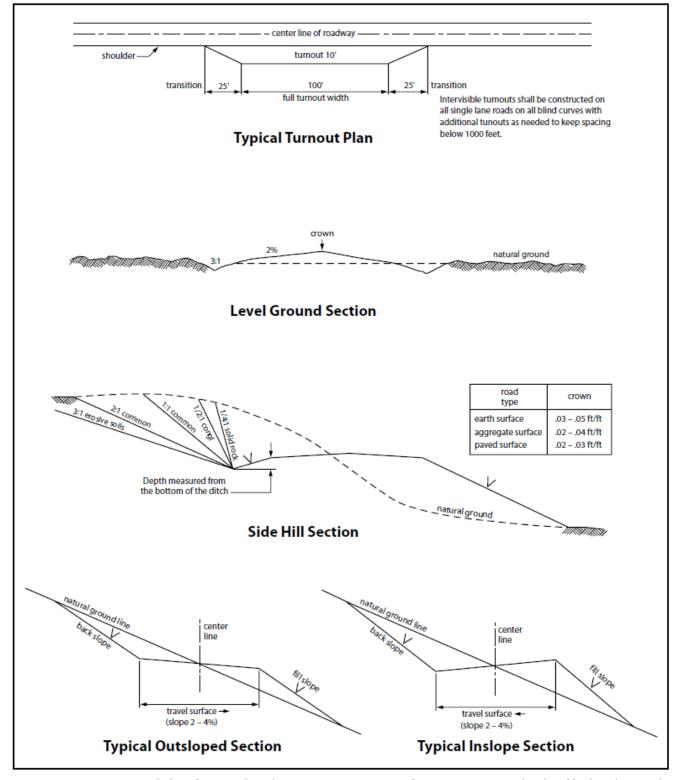


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.2 Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1½ inches.

5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

5. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within

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Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12", unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 2, for Sandy Site

Species to be planted in pounds of pure live seed* per acre:

Species

	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO

LEASE NO.: NMLC065944A

LOCATION: Sec. 27, T.20 S, R 31 E

COUNTY: Eddy County, New Mexico ▼

WELL NAME & NO.: Big Eddy Unit DI 5 West 27-20 3H

SURFACE HOLE FOOTAGE: 1745'/N & 2290'/E

BOTTOM HOLE FOOTAGE: 990'/S & 50'/W

COA

H_2S	•	No	0	Yes
Potash /	None	Secretary	⊙ R-111-Q	Open Annulus
WIPP	4-String Design: Ope	n 1st Int x 2nd Annulus (ICP 2 below Relief Z	one) \square WIPP
Cave / Karst	• Low	Medium	C High	Critical
Wellhead	Conventional	Multibowl	O Both	Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ Echo Meter	□ DV Tool
Special Req	Capitan Reef	☐ Water Disposal	\square COM	Unit
Waste Prev.	C Self-Certification	C Waste Min. Plan	APD Submitted p	rior to 06/10/2024
Additional	▼ Flex Hose	Casing Clearance	☐ Pilot Hole	Break Testing
Language	Four-String	Offline Cementing	☐ Fluid-Filled	

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 743 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping

- cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 pounds compressive strength</u>, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **9-5/8** inch 1st Intermediate casing shall be set at **2700ft**:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Excess calculates to 17%. Additional cement maybe required.

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

- ❖ Special Capitan Reef requirements. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
 (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 freshwater mud to protect the Capitan Reef and use freshwater mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - O 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 **7-5/8** inch 2nd Intermediate casing shall be set at **3900 ft**:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. If cement does not circulate, contact the appropriate BLM office.

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

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back 500 feet into the previous casing but not higher than USGS
 Marker Bed No. 126. Operator must verify top of cement per R-111-Q
 requirements. Submit results to the BLM. Operator shall provide method of verification.

 Excess calculates to -10%. Additional cement maybe required.

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).
 - 1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.

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- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance

String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

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

- 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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

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- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

> Approved by Zota Stevens on 12/9/2024 575-234-5998 / zstevens@blm.gov



HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

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

Characteristics of H₂S and SO₂

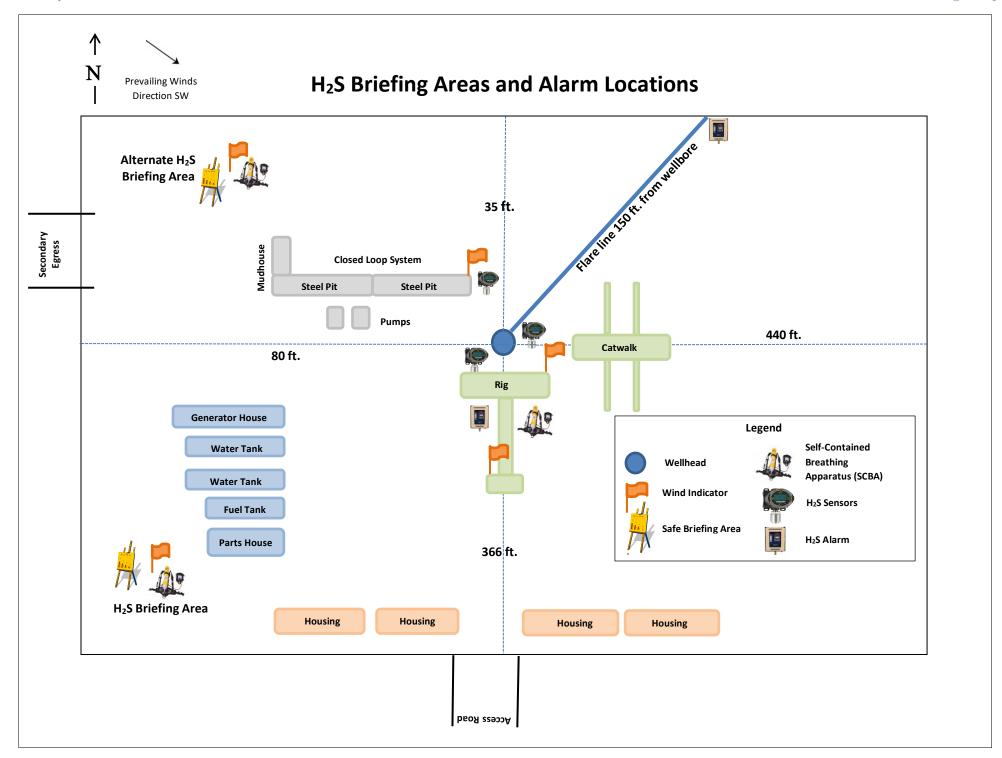
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

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

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL: Will Dacus, Drilling Manager Brian Dunn, Drilling Supervisor Robert Bartels, Construction Execution Planner Andy Owens, EH & S Manager Frank Fuentes, Production Foreman	832-948-5021 832-653-0490 406-478-3617 903-245-2602 575-689-3363
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





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

SUPO Data Report

APD ID: 10400093610

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT DI 5 WEST 27-20

Well Type: OIL WELL

Submission Date: 08/07/2023

Well Number: 3H

Well Work Type: Drill

Highlighted data reflects the most recent changes Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BIG_EDDY_UNIT_DI_5_WEST_27_20_3H_Road_20230726094325.pdf

Existing Road Purpose: ACCESS Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

BIG_EDDY_UNIT_DI_5_WEST_1Mile_20230720105444.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: A. Production Facilities. No additional production facilities are necessary for Big Eddy Unit DI5 wells. Once drilled and completed, the wells will flow to the Big Eddy Unit DIS battery, directly adjacent to the Big Eddy Unit DI5. There is no new surface disturbance associated with this project. B. Buried & Surface Flowlines. No additional flowlines are needed or requested for the Big Eddy Unit DI 5 project. There is no new surface disturbance associated with this project. Midstream Tie-In. No midstream tie-in connections are requested or required for the Big Eddy Unit DI5 project. No additional corridors are requested for gas/oil/water takeaway. C. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-S sundry notification will be submitted to BLM in compliance with 43 CFR 3177. D. Flare. A flare is not requested nor required with this project. E. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment. F. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas. G. Electrical. No additional electrical is needed or requested for this project. There is no new surface disturbance associated with this project.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Fresh Water; Section 27, T25S-R30E, Eddy County,

NM

Water source use type: DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

STIMULATION

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Received by OCD: 1/17/2025 3:24:21 PM

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Water source volume (barrels): 2000000 Source volume (acre-feet): 257.78619266

Source volume (gal): 84000000

Water source type: OTHER

Describe type: Fresh Water; Section 6, T25S-R29E, Eddy County, NM

Water source use type: DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

STIMULATION

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 2000000 Source volume (acre-feet): 257.78619266

Source volume (gal): 84000000

Water source and transportation

BIG_EDDY_UNIT_DI_5_WEST_27_20_3H_Wtr_20230726094458.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: Texas Pacific Water Resources Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating, LLC from Section 27, T25S-R30E, Eddy County, NM. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, NM. Anticipated water usage for drilling includes an estimated 50,000 barrels (bbls) of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5 bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules. Well completion is expected to require approximately 1,950,000 bbls of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

New water well? N

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: NO

Construction Materials description:

Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500 barrels

Waste disposal frequency: One Time Only

Safe containment description: Steel mud boxes

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency: One Time Only

Safe containment description: 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.

Safe containment attachment:

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

FACILITY

Disposal type description:

Disposal location description: R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240

Waste type: SEWAGE

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

Amount of waste: 250 gallons

Waste disposal frequency: Weekly

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

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Waste type: GARBAGE

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

Amount of waste: 250 pounds

Waste disposal frequency: Weekly

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

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Waste type: GARBAGE

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

Amount of waste: 250 pounds

Waste disposal frequency: Weekly

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

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.) Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill 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

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

BIG_EDDY_UNIT_DI_5_WEST_27_20_3H_Well_20230726094631.pdf BIG_EDDY_UNIT_DI_5_WEST_27_20_3H_RL_20240917110211.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: BIG EDDY UNIT DI 5 WEST

Multiple Well Pad Number: A

Recontouring

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

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

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

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

(acres): 0 (acres):

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

Powerline proposed disturbance Powerline interim reclamation (acres): Powerline long term disturbance

(acres): (acres): 0

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

(acres): 0

Other proposed disturbance (acres): Other interim reclamation (acres): 0 Other long term disturbance (acres): 0

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

Disturbance Comments:

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

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

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Existing Vegetation at the well pad: According to the Natural Resources Conservation Service online database, the project area soils consist of Simona soils. These soils are associated with the Shallow Sandy ecological site (R042CX002NM) which typically supports grama grasslands with an even distribution of yucca, javelin bush, range ratany, prickly pear, and mesquite. The current vegetative community consists of mesquite, soapweed yucca, broom snakeweed, javelin bush, pencil cholla, horse crippler, prickly pear, and desert grasses and forbs. The project area lies on a heavily eroded, relatively flat terrain approximately 0.7 miles west of Williams Sink.

Existing Vegetation at the well pad

Existing Vegetation Community at the road: According to the Natural Resources Conservation Service online database, the project area soils consist of Simona soils. These soils are associated with the Shallow Sandy ecological site (R042CX002NM) which typically supports grama grasslands with an even distribution of yucca, javelin bush, range ratany, prickly pear, and mesquite. The current vegetative community consists of mesquite, soapweed yucca, broom snakeweed, javelin bush, pencil cholla, horse crippler, prickly pear, and desert grasses and forbs. The project area lies on a heavily eroded, relatively flat terrain approximately 0.7 miles west of Williams Sink.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: According to the Natural Resources Conservation Service online database, the project area soils consist of Simona soils. These soils are associated with the Shallow Sandy ecological site (R042CX002NM) which typically supports grama grasslands with an even distribution of yucca, javelin bush, range ratany, prickly pear, and mesquite. The current vegetative community consists of mesquite, soapweed yucca, broom snakeweed, javelin bush, pencil cholla, horse crippler, prickly pear, and desert grasses and forbs. The project area lies on a heavily eroded, relatively flat terrain approximately 0.7 miles west of Williams Sink.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: According to the Natural Resources Conservation Service online database, the project area soils consist of Simona soils. These soils are associated with the Shallow Sandy ecological site (R042CX002NM) which typically supports grama grasslands with an even distribution of yucca, javelin bush, range ratany, prickly pear, and mesquite. The current

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

vegetative community consists of mesquite, soapweed yucca, broom snakeweed, javelin bush, pencil cholla, horse crippler, prickly pear, and desert grasses and forbs. The project area lies on a heavily eroded, relatively flat terrain approximately 0.7 miles west of Williams Sink.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Seed Type

Total pounds/Acre:

Seed reclamation

Operator Contact/Responsible Official

Pounds/Acre

First Name: Robert Last Name: Bartels

Phone: (406)478-3617 Email: robert.e.bartels@exxonmobil.com

Seedbed prep: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

Seed BMP: If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

Seed method: Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

Existing invasive species? N

Existing invasive species treatment description:

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Existing invasive species treatment

Weed treatment plan description: Weed control for all phases will be through the use of approved pesticides and herbicides according to applicable State, Federal and local laws.

Weed treatment plan

Monitoring plan description: Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.

Monitoring plan

Success standards: 100% compliance with applicable regulations.

Pit closure description: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17

Pit closure attachment:

Section 11 - Surface Ownership

Describe:
Surface Owner: BUREAU OF LAND MANAGEMENT
Other surface owner description:
BIA Local Office:

Disturbance type: EXISTING ACCESS ROAD

BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	

Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Operator Name: XTO PERMIAN OPERATING LLC	
Wall Name: DIC EDDY LINIT DIE WEST 27 20	14/

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Disturbance type: TRANSMISSION LINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Well Name: BIG EDDY UNIT DI 5 WEST 27-20 Well Number: 3H

Disturbance type: OTHER

Describe: Flowline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW

SUPO Additional Information: SUPO written for all wells in section/project area.

Use a previously conducted onsite? Y

Previous Onsite information: The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 03/28/2019.

Other SUPO

BIG_EDDY_UNIT_DI_5_West_Well_List_20230720122334.pdf
BIG_EDDY_UNIT_DI_5_WEST_SUPO_UPDATED_20241014133947.pdf

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 422105

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	422105
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
slaghuvarapu	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/17/2025
slaghuvarapu	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/17/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/6/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/6/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	2/6/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	2/6/2025
ward.rikala	This well is within the Capitan Reef. The first intermediate casing string shall be sat and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef.	2/6/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	2/6/2025