Form 3160-3 (June 2015) UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAN	T	FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No.				
APPLICATION FOR PERMIT TO I	DRILL OR	REENTER		6. If Indian, Allotee or	Tribe Name	
1a. Type of work:   DRILL	REENTER			7. If Unit or CA Agree	ment, Name and No.	
	Other Single Zone	Multiple Zone		8. Lease Name and We	ell No.	
2. Name of Operator				9. API Well No.	15-55829	
3a. Address	3b. Phone	No. (include area cod	de)	10. Field and Pool, or Exploratory		
4. Location of Well <i>(Report location clearly and in accordance</i> At surface	with any Stat	te requirements.*)		11. Sec., T. R. M. or B	lk. and Survey or Area	
At proposed prod. zone	22			12 Country on Donich	12 State	
14. Distance in miles and direction from nearest town or post of	ffice*		-	12. County or Parish	13. State	
<ul><li>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li></ul>	16. No of acres in lease 17. S		17. Spacin	ng Unit dedicated to this	well	
<ul> <li>18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ul>	19. Propos	sed Depth	20. BLM/	BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	ximate date work will	start*	23. Estimated duration		
	24. Atta	achments				
The following, completed in accordance with the requirements of (as applicable)	of Onshore O	il and Gas Order No.	1, and the H	Iydraulic Fracturing rule	e per 43 CFR 3162.3-3	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office</li> </ol>		Item 20 above). e 5. Operator certifi	cation.	s unless covered by an ex mation and/or plans as m		
25. Signature	Nam	Name (Printed/Typed)			Date	
Title						
Approved by (Signature)	Nam	ne (Printed/Typed)		D	ate	
Title	Offic	ce				
Application approval does not warrant or certify that the applicat applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ant holds lega	l or equitable title to t	hose rights	in the subject lease whic	sh would entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statements					department or agency	
nnD	VED W	ITH CONDI	TONS			
(Continued on page 2)				*(Instr	ructions on page 2)	

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## 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: NESW / 2238 FSL / 1560 FWL / TWSP: 22S / RANGE: 30E / SECTION: 36 / LAT: 32.347483 / LONG: -103.837881 (TVD: 0 feet, MD: 0 feet ) PPP: NESW / 1870 FSL / 2300 FWL / TWSP: 22S / RANGE: 30E / SECTION: 36 / LAT: 32.346466 / LONG: -103.835487 (TVD: 10417 feet, MD: 10864 feet ) PPP: NESE / 1870 FSL / 0 FWL / TWSP: 22S / RANGE: 30E / SECTION: 35 / LAT: 32.346483 / LONG: -103.842934 (TVD: 10417 feet, MD: 13174 feet ) BHL: NWSE / 1870 FSL / 2624 FEL / TWSP: 22S / RANGE: 31E / SECTION: 33 / LAT: 32.346575 / LONG: -103.886116 (TVD: 10417 feet, MD: 26500 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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<u>C-102</u> Sumbit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION		Revised July, 09 2024
Via OCD Fernitaling			X Initial Submittal
		Submital Type:	Amended Report
			As Drilled

	WELL LO	OCATION INFORMATION		
API Number	Pool Code 40295	Pool Name		
<b>30-015-</b> <u>55829</u>	10470	Los Medanos; Bone Spring		
Property Code	Property Name		Well Number	
336566	336566JRU DI 8 WARBONNET			
OGRID No.	Operator Name		Ground Level Elevation	
373075	XTO PERI	3,309'		
Surface Owner: ⊠State □Fee □	Tribal 🔲 Federal	Mineral Owner: ⊠State □Fee □Tribal ⊠F	ederal	

					Surface H	lole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
к	36	22S	30E		2,238' FSL	1,560' FWL	32.347	7483	-103.837881	EDDY	
Bottom Hole Location											
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
J	33	22\$	30E		1,870 FSL	2,624 FEL	32.346575		-103.886116	EDDY	
	1	1	1	1	1	1	1		1		
Dedicat	ted Acres	Infill or Defi	ning Well	Defining	Well API	Overlapping Spacing	Unit (Y/N)	) Consolidation Code			

Order Numbers.	R-279-C		Well Setbacks are under Common C	)wnership: ⊠Yes □No
480.00	INFILL		Ν	U
Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code

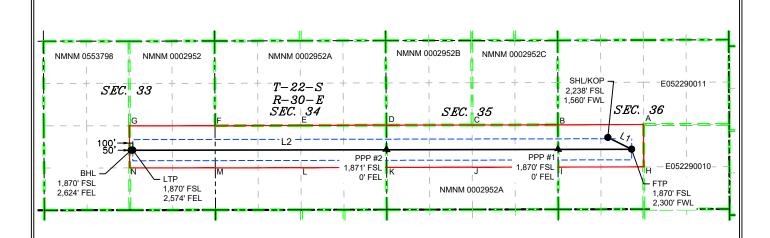
e and belief, and n either owns of the proposed want to a contr erest, or a volu	2S 30E ship Range 2S 30E ship Range 2S 30E ship Range 2S 30E Solution Contained here ief, and, if the well is wins a working intere cosed bottom hole loce contract with an own	rein is true au s vertical or c est or unleas cation or has	Ft. from N/S         1,870 FSL         Last Tak         Ft. from N/S         1,870 FSL	Ft. from E/W         1,560 FWL         ke Point (FTP)         Ft. from E/W         2,300 FWL         ke Point (LTP)         Ft. from E/W         2,574 FEL         ontal         Vertical         SURVEYOR CERTIFIC         I hereby certify that the actual surveys made by is correct to the best of my	CATIONS well location show	Elevation Longitud	37881 le 35487 le	County EDD County
Township 22S Township 22S 22S 22S 22S 22S 22S 22S 22S 22S 22	ship Range 2S 30E ship Range S 30E S 30E rest 30E CONS nation contained herri ief, and, if the well is wins a working intere osed bottom hole loor contract with an own	Lot Spacing U Sein is true at severtical or of est or unleas station or has	First Tal Ft. from N/S 1,870 FSL Last Tal Ft. from N/S 1,870 FSL nit Type : ⊠Horizo nd complete to the directional well, ed mineral interest	ke Point (FTP)         Ft. from E/W         2,300 FWL         ke Point (LTP)         Ft. from E/W         2,574 FEL         ontal □Vertical         SURVEYOR CERTIFIC         I hereby certify that the actual surveys made by in	Latitude 32.34646 Latitude 32.34657 Ground CATIONS well location show	Elevation Longitud	le 35487 le 85954	EDD
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22S Township 22S Ea of Interest M-070965) IFICATIONS the information e and belief, an n either owns a the proposed uant to a contri erest, or a volu	2S 30E ship Range S 30E rest 965X DNS nation contained her ief, and, if the well is wins a working intere osed bottom hole loc contract with an own	Lot Spacing U Sein is true at severtical or of est or unleas station or has	1,870 FSL         Last Tak         Ft. from N/S         1,870 FSL	2,300 FWL         ke Point (LTP)         Ft. from E/W         2,574 FEL         ontal         Vertical         SURVEYOR CERTIFIC         I hereby certify that the actual surveys made by provide the surveys of the survey su	32.34640 Latitude 32.34657 Ground CATIONS well location show	56 -103.83 74 -103.84 Elevation 3,	35487 le 85954	EDE
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M-070965) IFICATIONS the informatio e and belief, a the proposed uant to a contri erest, or a volu	<b>2965X</b> DNS nation contained her ief, and, if the well is whs a working intere osed bottom hole loc contract with an own	rein is true au s vertical or c est or unleas cation or has	nd complete to the directional well, ed mineral interest	SURVEYOR CERTIFIC I hereby certify that the actual surveys made by	CATIONS well location show	3,	309'	
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ontal well, I fu of at least one erest in each t e well's comple	a voluntary pooling a ntered by the division II, I further certify tha st one lessee or owne ach tract (in the targ ompleted interval wil m the division.	agreement of n. at this organ er of a workin get pool or in	king interest or r a compulsory ization has ng interest or formation) in or obtained a	Signature and Seal of Pr	ofessional Survey	P 25 T T T T T T T T T T T T T T T T T T T	$\frown$	HOL ST
	Date			Signature and Sear of Th	olessional Survey	01		
een Laghuva	nuvarapu			MARK DILLON HARP 237	786	11/8/	2024	
				Certificate Number	Date of S	urvey		
huvarapu@	ou@exxonmobil.co	om						
				YH			618.013002	2.09-16
		en Laghuvarapu uvarapu@exxonmobil.co	n Laghuvarapu uvarapu@exxonmobil.com		uvarapu@exxonmobil.com	MARK DILLON HARP 23786         Certificate Number         Date of Su	MARK DILLON HARP 23786         11/8/           Uvarapu@exxonmobil.com         Date of Survey	MARK DILLON HARP 23786         11/8/2024           Uvarapu@exxonmobil.com         Date of Survey

Note: No allowable will be assigned to this completion until all interest h	ave 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.



LEGEND

\_\_\_\_\_

SECTION LINE

330' BUFFER ALLOCATION AREA

PROPOSED WELL BORE

NEW MEXICO MINERAL LEASE

	LINE TAB	LE
LINE	AZIMUTH	LENGTH
L1	116 <b>°</b> 19'41"	826.86'
L2	269 <b>*</b> 53'33"	15,635.43'

	COORE	DINA		LE		COR			ATES (NA	D 83 NME)	
SHL/KOF				P (NAD 27 N	ME)	A - Y =		N	A - X =	695,453.8	E
Y =	490,500.2	N	Y =	490,439.9	Ν	B - Y =	490,896.8	N	B - X =	692,779.9	E
X =	694,340.6	Е	X =	653,158.6	Е	C - Y =	490,891.5	N	C - X =	690,097.4	E
LAT. =	32.347483	°N	LAT. =	32.347360	°N	D - Y =	490,886.2	N	D - X =	687,416.5	E
LONG. =	103.837881	°W	LONG. =	103.837389	°W	E - Y =	490,877.4	N	E - X =	684,741.7	E
FTP (N	NAD 83 NME	)	FTP (I	P (NAD 27 NME) F - Y = 490,868.5 N F - X = 682,066.2 E				E			
Y =	490,133.5	Ν	Y =	490,073.2	Ν	G - Y =	490,868.0	N	G - X =	679,392.2	E
X =	695,081.7	Е	X =	653,899.7	Е	H - Y =	489,584.3	N	H - X =	695,458.2	E
LAT. =	32.346466	°N	LAT. =	32.346342	°N	-Y=	489,577.8	N	I - X =	692,783.0	E
LONG. =	103.835487	°W	LONG. =	103.834995	°W	J - Y =	489,572.1	N	J - X =	690,103.8	E
PPP #1	(NAD 83 NM	E)	PPP #1	(NAD 27 NM	IE)	K - Y =	489,566.8	N	K - X =	687,424.7	E
Y =	490,129.1	Ν	Y =	490,068.8	Ν	L - Y =	489,559.7	N	L - X =	684,749.9	E
X =	692,781.7	E	X =	651,599.7	Е	M - Y =	489,553.2	N	M - X =	682,074.0	E
LAT. =	32.346483	°N	LAT. =	32.346360	°N	N - Y =	489,551.0	N	N - X =	679,399.2	E
LONG. =	LONG. = 103.842934 °W LONG. = 103.842442 °W					COR	NER COOF	RDIN	ATES (NA	D 27 NME)	
PPP #2	(NAD 83 NM	E)	PPP #2	(NAD 27 NM	IE)	A - Y =	490,844.2	Ν	A - X =	654,271.8	Е
Y =	490,119.1	Ν	Y =	490,058.8	Ν	B - Y =	490,836.5	N	B - X =	651,597.9	E
X =	687,421.7	E	X =	646,239.8	Е	C - Y =	490,831.2	Ν	C - X =	648,915.4	E
LAT. =	32.346521	°N	LAT. =	32.346398	°N	D - Y =	490,825.8	N	D - X =	646,234.6	E
LONG. =	103.860290	°W	LONG. =	103.859798	°W	E - Y =	490,817.0	Ν	E - X =	643,559.7	E
· · · ·	NAD 83 NME	<u>,</u>	•	NAD 27 NME	<u>/</u>	F - Y =	,	N	F - X =	640,884.2	E
Y =	490,104.2	Ν	Y =	490,043.7	Ν	G - Y =	490,807.5	N	G - X =	638,210.2	E
X =	679,496.3	E	X =	638,314.2	E	H - Y =	489,524.1	N	H - X =	654,276.1	E
LAT. =	32.346574	°N	LAT. =	32.346451	°N	I - Y =	489,517.5	N	I - X =	651,601.0	E
LONG. =	103.885954	°W	LONG. =	103.885460	°W	J - Y =	489,511.8	N	J - X =	648,921.8	E
BHL (N	NAD 83 NME	)		NAD 27 NME	)	K - Y =	489,506.5	N	K - X =	646,242.7	E
Y =	490,104.1	Ν	Y =	490,043.6		L - Y =	,	Ν	L - X =	643,568.0	E
X =	679,446.3		X =	638,264.2		M - Y =	489,492.7	Ν	M - X =	640,892.0	Е
LAT. =	32.346575		LAT. =	32.346451		N - Y =	489,490.6	Ν	N - X =	638,217.2	E
LONG. =	103.886116	°W	LONG. =	103.885622	°W						

618.013002.09-16

YΗ

State of New Mexico Energy, Minerals and Natural Resources Department

> 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.

## <u>Section 1 – Plan Description</u> <u>Effective May 25, 2021</u>

**I. Operator:** XTO Permian Operating, LLC

OGRID: 373075

Date: 10/3/2024

**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 be 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 Water BBL/D	3 yr Anticipated decline Water BBL/D
JAMES RANCH UNIT DI 8 Warbonnet 901H	TBD	36 T22S R30E	1733 FNL, 1762 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 902H	TBD	36 T22S R30E	1854 FNL, 1790 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 903H	TBD	36 T22S R30E	2313 FSL, 1561 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 904H	TBD	36 T22S R30E	2238 FSL, 1590 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 905H	TBD	36 T22S R30E	1125 FSL, 1895 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 906H	TBD	36 T22S R30E	1050 FSL, 1895 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 111H	TBD	36 T22S R30E	1733 FNL, 1792 FWL	1,900	200	5,250	900	5,750	550
JAMES RANCH UNIT DI 8 Warbonnet 112H	TBD	36 T22S R30E	1854 FNL, 1820 FWL	1,900	200	5,250	900	5,750	550

Submit Electronically Via E-permitting

JAMES RANCH UNIT DI 8 Warbonnet 113H	TBD	36 T22S R30E	2313 FSL, 1591 FWL	1,900	200	5,250	900	5,750	550
JAMES RANCH UNIT DI 8 Warbonnet 114H	TBD	36 T22S R30E	2236 FSL, 1715 FWL	1,900	200	5,250	900	5,750	550
JAMES RANCH UNIT DI 8 Warbonnet 115H	TBD	36 T22S R30E	1050 FSL, 2020 FWL	1,900	200	5,250	900	5,750	550
JAMES RANCH UNIT DI 8 Warbonnet 116H	TBD	36 T22S R30E	1050 FSL, 2050 FWL	1,900	200	5,250	900	5,750	550
JAMES RANCH UNIT DI 8 Warbonnet 801H	TBD	36 T22S R30E	1733 FNL, 1732 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 802H	TBD	36 T22S R30E	1853 FNL, 1665 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 803H	TBD	36 T22S R30E	2314 FSL, 1531 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 804H	TBD	36 T22S R30E	2238 FSL, 1560 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 805H	TBD	36 T22S R30E	1125 FSL, 1865 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 806H	TBD	36 T22S R30E	1050 FSL, 1865 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 701H	TBD	36 T22S R30E	1732 FNL, 1577 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 702H	TBD	36 T22S R30E	1732 FNL, 1607 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 703H	TBD	36 T22S R30E	1853 FNL, 1635 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 704H	TBD	36 T22S R30E	2314 FSL, 1501 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 705H	TBD	36 T22S R30E	2239 FSL, 1530 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 706H	TBD	36 T22S R30E	1125 FSL, 1835 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 707H	TBD	36 T22S R30E	1050 FSL, 1805 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 708H	TBD	36 T22S R30E	1050 FSL, 1835 FWL	1,500	200	2,250	500	3,750	450
JAMES RANCH UNIT DI 8 Warbonnet 161H	TBD	36 T22S R30E	1854 FNL, 1850 FWL	1,900	200	5,250	900	5,750	550
JAMES RANCH UNIT DI 8 Warbonnet 162H	TBD	36 T22S R30E	2236 FSL, 1745 FWL	1,900	200	5,250	900	5,750	550

JAMES RANCH	TBD	36 T22S	1050 FSL,	1,900	200	5,250	900	5,750	550
UNIT DI 8		R30E	2080 FWL						
Warbonnet 163H									
JAMES RANCH	TBD	36 T22S	1733 FNL,	1,900	200	5,250	900	5,750	550
UNIT DI 8		R30E	1822 FWL						
Warbonnet 171H									
JAMES RANCH	TBD	36 T22S	2236 FSL,	1,900	200	5,250	900	5,750	550
UNIT DI 8		R30E	1775 FWL						
Warbonnet 172H									
JAMES RANCH	TBD	36 T22S	2235 FSL,	1,900	200	5,250	900	5,750	550
UNIT DI 8		R30E	1805 FWL						
Warbonnet 173H									
JAMES RANCH	TBD	36 T22S	1050 FSL,	1,900	200	5,250	900	5,750	550
UNIT DI 8		R30E	2110 FWL						
Warbonnet 174H									
JAMES RANCH	TBD	36 T22S	1732 FNL,	1,500	200	2,250	500	3,750	450
UNIT DI 8		R30E	1547 FWL						
Warbonnet 501H									
JAMES RANCH	TBD	36 T22S	1853 FNL,	1,500	200	2,250	500	3,750	450
UNIT DI 8		R30E	1605 FWL						
Warbonnet 502H									
JAMES RANCH	TBD	36 T22S	2239 FSL,	1,500	200	2,250	500	3,750	450
UNIT DI 8		R30E	1500 FWL						
Warbonnet 503H									
JAMES RANCH	TBD	36 T22S	1125 FSL,	1,500	200	2,250	500	3,750	450
UNIT DI 8		R30E	1805 FWL						
Warbonnet 504H									

IV. Central Delivery Point Name: James Ranch Unit DI 8 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 Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
JAMES RANCH UNIT DI 8 Warbonnet 901H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 902H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 903H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 904H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 905H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 906H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 111H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 112H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 113H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 114H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 115H	TBD	TBD	TBD	TBD	TBD	TBD

JAMES RANCH UNIT DI 8 Warbonnet 116H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 801H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 802H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 803H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 804H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 805H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 806H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 701H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 702H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 703H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 704H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 705H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 706H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 707H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 708H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 161H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 162H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 163H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 171H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 172H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 173H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 174H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 501H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 502H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 503H	TBD	TBD	TBD	TBD	TBD	TBD
JAMES RANCH UNIT DI 8 Warbonnet 504H	TBD	TBD	TBD	TBD	TBD	TBD

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

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

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

## Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

#### IX. Anticipated Natural Gas Production:

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

#### X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

## Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

## Section 4 - Notices

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

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

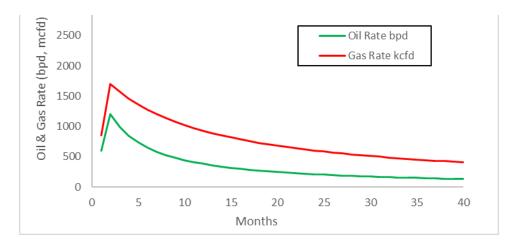
(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural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

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

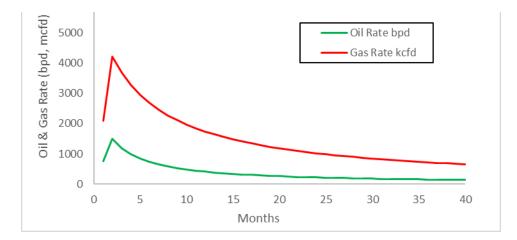
I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Srinivas Naveen
Printed Name: Srinivas Naveen Laghuvarapu
Title: Regulatory Analyst
E-mail Address: srinivas.n.laghuvarapu@exxonmobil.com
Date: 10/30/2024
Phone: +91-7780442850
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:
Page <b>7</b> of <b>8</b>

## 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.



Drilling Plan Data Report

11/12/2024 U.S. Department of the Interior BUREAU OF LAND MANAGEMENT APD ID: 10400096347 Submission Date: 01/15/2024 Highlighted data reflects the most **Operator Name: XTO PERMIAN OPERATING LLC** recent changes Well Name: JAMES RANCH UNIT DI 8 WARBONNET Well Number: 804H Show Final Text Well Type: OIL WELL Well Work Type: Drill

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13377965	QUATERNARY	3309	0	0	ALLUVIUM	POTASH, USEABLE WATER	N
13377966	RUSTLER	2993	316	316	ANHYDRITE, SANDSTONE	POTASH, USEABLE WATER	N
13377967	TOP SALT	2687	622	622	POTASH, SALT	POTASH	N
13377968	BASE OF SALT	-307	3616	3616	POTASH, SALT	POTASH	N
13377969	DELAWARE	-549	3858	3858	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, POTASH, USEABLE WATER	N
13377970	BONE SPRING	-4375	7684	7684	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, POTASH, USEABLE WATER	Y
13377974	BONE SPRING 1ST	-5419	8728	8728	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, POTASH, USEABLE WATER	Y
13377976	BONE SPRING 2ND	-6251	9560	9560	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, POTASH, USEABLE WATER	Y
13377964	BONE SPRING 3RD	-6814	10123	10123	SANDSTONE, SHALE	NATURAL GAS, OIL, POTASH, USEABLE WATER	Y

## Section 2 - Blowout Prevention

#### Pressure Rating (PSI): 5M

Rating Depth: 10417

Equipment: Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8 minimum 5M Hydril and a 13-5/8 minimum 5M Double Ram BOP. MASP should not exceed 3331 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

#### 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

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Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

on each of the wells. A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

**Testing Procedure:** All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

#### **Choke Diagram Attachment:**

JRU\_DI\_8\_Warbonnet\_Eagle\_5MCM\_20231208034635.pdf

#### **BOP Diagram Attachment:**

JRU\_DI\_8\_Warbonnet\_Eagle\_5MBOP\_20231208034719.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	597	0	597	3309	2712	597	J-55		OTHER - BTC	4.28	2.46	DRY	26.2 2	DRY	26.2 2
	INTERMED IATE	12.2 5	9.625	NEW	API	Y	0	3716	0	3716	3317	-407	3716	J-55	-	OTHER - BTC	2.27	1.76	DRY	4.24	DRY	4.24
	INTERMED IATE	8.75	7.625	NEW	API	Y	0	9860	0	9860	3317	-6551	9860	L-80	-	OTHER - FLUSH	3.68	2.2	DRY	2.26	DRY	2.26
	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	26500	0	10417	3317	-7108	26500	P- 110		OTHER - Semi-Flush	2.05	1.05	DRY	3.8	DRY	3.8

#### Casing Attachments

Received by OCD: 11/12/2024 1:21:44 PM Operator Name: XTO PERMIAN OPERATING LLC Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
JRU_DI_8_WARBONNET_804H_Csg_20231215152424.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
JRU_DI_8_WARBONNET_804H_Csg_20231215152141.pdf
Casing Design Assumptions and Worksheet(s):
JRU_DI_8_WARBONNET_804H_Csg_20231215152208.pdf
Casing ID: 3 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
JRU_DI_8_WARBONNET_804H_Csg_20231215152502.pdf
Casing Design Assumptions and Worksheet(s):
JRU_DI_8_WARBONNET_804H_Csg_20231215152526.pdf

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

#### **Casing Attachments**

Casing ID: 4 String PRODUCTION

**Inspection Document:** 

Spec Document:

#### **Tapered String Spec:**

JRU\_DI\_8\_WARBONNET\_804H\_Csg\_20231215152605.pdf

#### Casing Design Assumptions and Worksheet(s):

JRU\_DI\_8\_WARBONNET\_804H\_Csg\_20231215152701.pdf

## **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	587	200	1.87	12.9	374	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	587	300	1.35	14.8	405	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	3716	1530	1.39	12.9	2126. 7	100	Class C	NA
INTERMEDIATE	Tail		0	3716	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	9860	470	1.35	14.8	634.5	100	Class C	NA
INTERMEDIATE	Tail		0	9860	390	1.33	14.8	518.7	100	Class C	NA
PRODUCTION	Lead		0	2650 0	50	2.69	11.5	134.5	20	NeoCem	NA
PRODUCTION	Tail		0	2650 0	1180	1.51	13.2	1781. 8	20	VersaCem	NA

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

## 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 13-3/8" surface casing with brine solution. A 10.0 ppg -10.5 ppg brine 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 (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	H	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
597	3716	OTHER : BRINE	10	10.5							
9860	2650 0	OIL-BASED MUD	10	10.5							
3716	9860	OTHER : BDE/OBM or FW/Brine	8.6	9.1							
0	597	OTHER : FreshWater / Native	8.5	9							

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

## 001L

## 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: 5417

Anticipated Surface Pressure: 3125

Anticipated Bottom Hole Temperature(F): 180

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

JRU\_DI\_8\_Warbonnet\_Eagle\_H2S\_DiaA\_20231208045422.pdf JRU\_DI\_8\_Warbonnet\_Eagle\_H2S\_DiaB\_20231208094919.pdf JRU\_DI\_8\_Warbonnet\_Eagle\_H2S\_DiaC\_20231208045422.pdf JRU\_DI\_8\_Warbonnet\_Eagle\_H2S\_Plan\_20231208045422.pdf

## **Section 8 - Other Information**

#### Proposed horizontal/directional/multi-lateral plan submission:

JRU\_DI\_8\_WARBONNET\_804H\_DD\_20231215153033.pdf

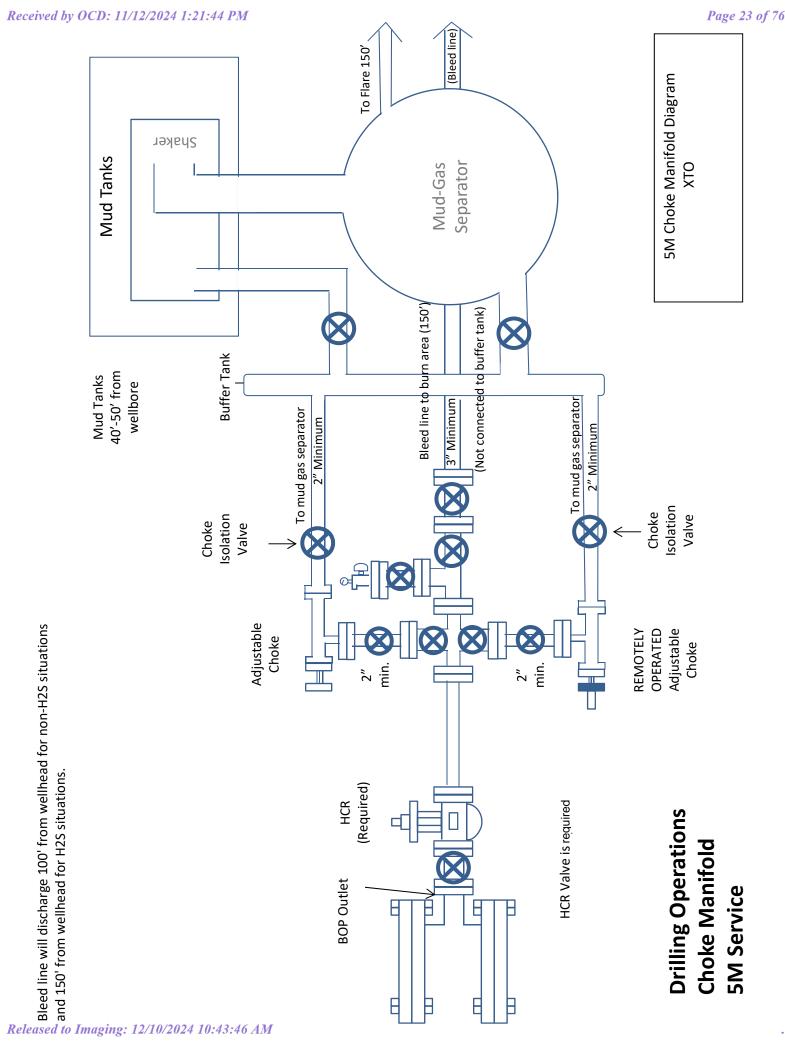
## Other proposed operations facets description:

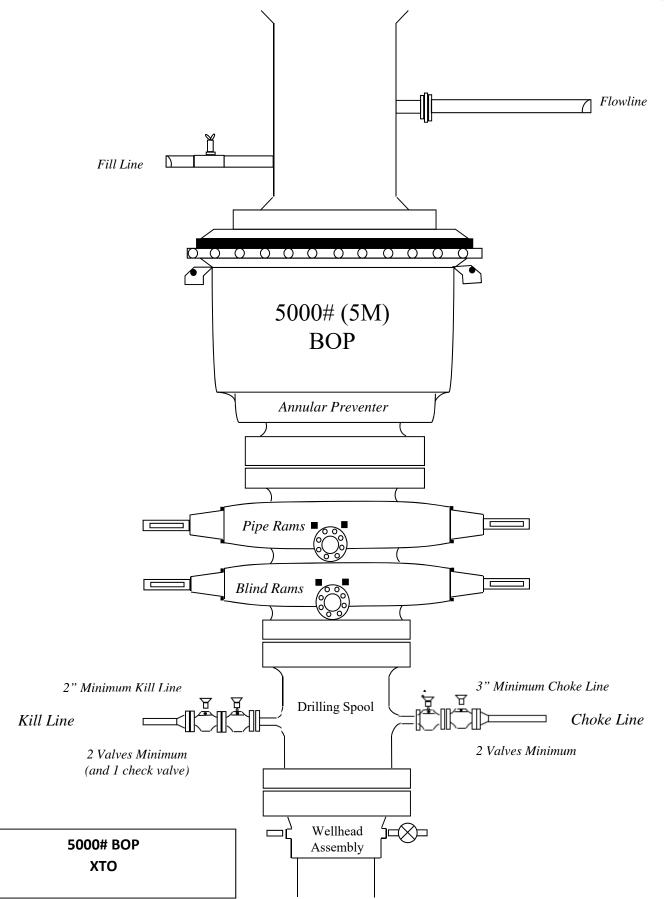
## Other proposed operations facets attachment:

JRU\_DI\_8\_WARBONNET\_804H\_Cmt\_20231215153044.pdf

## Other Variance attachment:

JRU\_DI\_8\_Warbonnet\_Eagle\_FH\_20231208045721.pdf JRU\_DI\_8\_Warbonnet\_Eagle\_MBS\_20231208045722.pdf JRU\_DI\_8\_Warbonnet\_Eagle\_OLCV\_20231208045721.pdf JRU\_DI\_8\_Warbonnet\_Eagle\_Spud\_20231208045721.pdf BOP\_Variance\_new\_Language\_BOP\_BTV\_20240107165633.pdf





## **Casing Assumptions**

Casing	g Design									
	Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
	17.5	0' – 597'	13.375	54.5	J-55	BTC	New	2.46	4.28	26.22
	12.25	0' – 3716'	9.625	40	J-55	BTC	New	1.76	2.27	4.24
	8.75	0' – 3816'	7.625	29.7	RY P-110	Flush Joint	New	3.03	3.14	1.91
	8.75	3816' – 9860'	7.625	29.7	HC L-80	Flush Joint	New	2.20	3.68	2.26
	6.75	0' – 9760'	5.5	20	RY P-110	Semi-Premium	New	1.05	2.19	1.96
	6.75	9760' - 26500'	5.5	20	RY P-110	Semi-Flush	New	1.05	2.05	3.80





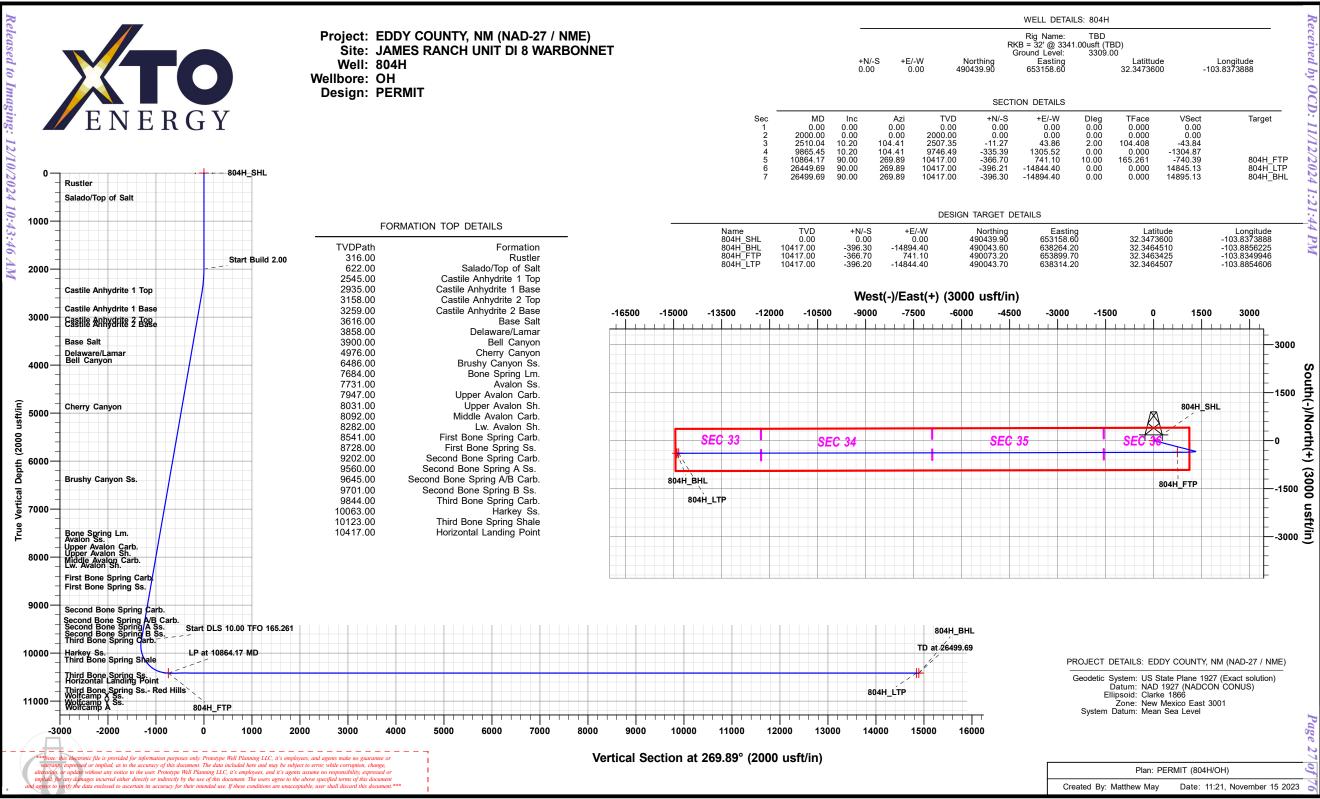
# **XTO Energy** EDDY COUNTY, NM (NAD-27 / NME) JAMES RANCH UNIT DI 8 WARBONNET 804H

OH

Plan: PERMIT

# **Standard Planning Report**

15 November, 2023



Page

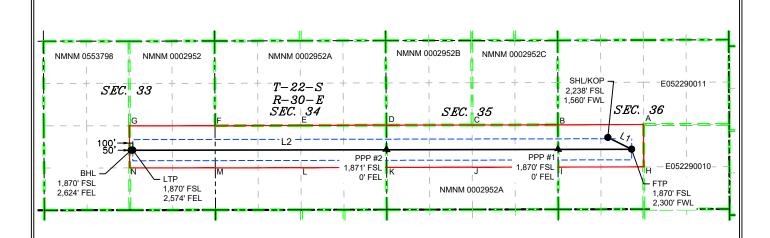
Deceived by	OCD.	11/12/202	4 1:21:44 PM
Received by	UUD.	11/12/2024	F 1.21.44 F M

	2 electronically D Permitting				State of New finerals & Natural CONVERSIC	Resources Departmen	ıt		Re	evised July, 0	
Via OC	D Permitting							-	X Initial Sub	nittal	
								Submital Type:		Report	
								As Drilled			
					WELL LOCAT	ION INFORMATION		1	I		
API Nu	mber		Pool Code	97975		ool Name	5 G-06 S243	110C. Dom	- Enving		
<b>D</b> (	30-01	5-				wc-01	5 G-00 5245	119C; Bolle			
Propert	y Code		Property N	ame	JRU DI 8	WARBONNET			Well Number	304H	
OGRID			Operator N	lame					Ground Level		
	37307				XTO PERMIAN	N OPERATING, LL				8,309'	
Surface	Owner: 🛛 S	State □Fee □	]Tribal □Fe	deral		Mineral Owner:	State □Fee	□Tribal 🛛	Federal		
					Surface	Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
к	36	22S	30E		2,238' FSL	1,560' FWL	32.347	7483 ·	-103.837881	EDI	
					Bottom	Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
J	33	22\$	30E		1,870 FSL	2,624 FEL	32.346	6575 ·	-103.886116	EDI	
		ı				•		II			
	ted Acres	Infill or Defi		Defining	Well API	Overlapping Spacing	Unit (Y/N)	Consolida			
48	30.00	INF	ILL			N			U		
Order N	lumbers.		R-279-C			Well Setbacks are un	der Common (	Ownership:	⊠Yes □No		
					Kick Of	f Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
к	36	22S	30E		2,238 FSL	1,560 FWL	32.347	7483 ·	-103.837881	EDI	
					First Tal	ke Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
к	36	22S	30E		1,870 FSL	2,300 FWL	32.346	6466 ·	-103.835487	ED	
					Last Tal	ke Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
J	33	22S	30E		1,870 FSL	2,574 FEL	32.346	6574 ·	-103.885954	EDI	
	1	•		1			· · · ·	I			
Unitize	d Area or Are NMN	ea of Interest <b>M-070965X</b>		Spacing Ur	nit Type : 🛛 Horizo	ntal DVertical	Grou	nd Elevation	3,309'		
									-,		
OPERA	TOR CERT	FICATIONS				SURVEYOR CERTIFIC	CATIONS				
best of t that this in the la at this l	my knowledg s organization and including ocation purst	e and belief, and n either owns a the proposed b ant to a contra	l, if the well is working intere ottom hole loc ct with an owr	vertical or d est or unlease ation or has per of a work		I hereby certify that the actual surveys made by correct to the best of my	ne or under m		n, and that the sam	e is true and	
pooling If this w received	order of her vell is a horiz d the consent	erest, or a volur etofore entered ontal well, I fur of at least one l erest in each tra	by the division ther certify the essee or owne	t t this organi r of a workin	zation has g interest or				NEN MEXICO	$\langle \rangle$	
which a compul:	ny part of the	e well's complete order from the c	ed interval wi	11/13/2024	or obtained a			HOFES	23786 23786 8/0NAL 5	HOY	
Signatu			Date			Signature and Seal of Pr	ofessional Sur	veyor			
0		¥ •						J			
		een Laghuvar	apu			MARK DILLON HARP 237		£ S	11/8/2024		
P		huvarapu@ex	yonmobil o	m		Certificate Number	Date o	f Survey			
Printed	vas.n.1ag	.nuvarapu@es	AJUIIIUUII.CO	/111							
	Address										
sr						<b>YH</b> we been consolidated or t			618.01300		

### 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.



	LINE TAB	LE
LINE	AZIMUTH	LENGTH
L1	116 <b>°</b> 19'41"	826.86'
L2	269*53'33"	15,635.43'

GEND
 SECTION LINE
 PROPOSED WELL BORE
 NEW MEXICO MINERAL LEASE
 330' BUFFER
 ALLOCATION AREA

	COORD	<b>TE TAB</b>	LE		COR		RDIN	ATES (NA	D 83 NME)		
SHL/KOF	P (NAD 83 NI	ME)	SHL/KO	P (NAD 27 N	ME)	A - Y =	490,904.4	N	A - X =	695,453.8	E
Y =	490,500.2	Ν	Y =	490,439.9	Ν	B - Y =	490,896.8	N	B - X =	692,779.9	E
X =	694,340.6	Е	X =	653,158.6	Е	C - Y =	490,891.5	N	C - X =	690,097.4	E
LAT. =	32.347483	°N	LAT. =	32.347360	°N	D - Y =	490,886.2	N	D - X =	687,416.5	E
LONG. =	103.837881	°W	LONG. =	103.837389	°W	E - Y =	490,877.4	N	E - X =	684,741.7	E
FTP (N	NAD 83 NME	)	FTP (I	NAD 27 NME	.)	F - Y =	490,868.5	N	F - X =	682,066.2	E
Y =	490,133.5	Ν	Y =	490,073.2	Ν	G - Y =	490,868.0	N	G - X =	679,392.2	E
X =	695,081.7	Е	X =	653,899.7	Е	H - Y =	489,584.3	N	H - X =	695,458.2	Е
LAT. =	32.346466	°N	LAT. =	32.346342	°N	-Y=	489,577.8	Ν	I - X =	692,783.0	Е
LONG. =	103.835487	°W	LONG. =	103.834995	°W	J - Y =	489,572.1	Ν	J - X =	690,103.8	Е
PPP #1	(NAD 83 NM	E)	PPP #1	(NAD 27 NM	E)	K - Y =	489,566.8	Ν	K - X =	687,424.7	Е
Y =	490,129.1	Ν	Y =	490,068.8	Ν	L - Y =	489,559.7	Ν	L - X =	684,749.9	Е
X =	692,781.7	Е	X =	651,599.7	Е	M - Y =	489,553.2	N	M - X =	682,074.0	Е
LAT. =	32.346483	°N	LAT. =	32.346360	°N	N - Y =	489,551.0	Ν	N - X =	679,399.2	Е
LONG. =	103.842934	°W	LONG. =	103.842442	°W	COR	NER COOF	RDIN	ATES (NA	D 27 NME)	
PPP #2	(NAD 83 NM	E)	PPP #2	(NAD 27 NM	<b>E)</b>	A - Y =	490,844.2	N	A - X =	654,271.8	Е
Y =	490,119.1	Ν	Y =	490,058.8	Z	B - Y =	490,836.5	N	B - X =	651,597.9	Е
X =	687,421.7	Е	X =	646,239.8	Е	C - Y =	490,831.2	Ν	C - X =	648,915.4	Е
LAT. =	32.346521	°N	LAT. =	32.346398	°N	D - Y =	490,825.8	N	D - X =	646,234.6	Е
LONG. =	103.860290	°W	LONG. =	103.859798	°W	E - Y =	490,817.0	Ν	E - X =	643,559.7	Е
LTP (N	NAD 83 NME	)	LTP (I	NAD 27 NME	.)	F - Y =	490,808.0	Ν	F - X =	640,884.2	Е
Y =	490,104.2	Ν	Y =	490,043.7	Ν	G - Y =	490,807.5	N	G - X =	638,210.2	E
X =	679,496.3	Ε	X =	638,314.2	Е	H - Y =	489,524.1	Ν	H - X =	654,276.1	Е
LAT. =	32.346574	°N	LAT. =	32.346451	°N	I-Y=	489,517.5	N	I - X =	651,601.0	Е
LONG. =	103.885954	°W	LONG. =	103.885460	°W	J - Y =	489,511.8	N	J - X =	648,921.8	Е
BHL (I	NAD 83 NME	)	BHL (I	NAD 27 NME	)	K - Y =	489,506.5	Ν	K - X =	646,242.7	Е
Y =	490,104.1	Ν	Y =	490,043.6	Ν	L - Y =	489,499.4	Ν	L - X =	643,568.0	Е
X =	679,446.3	E	X =	638,264.2	E	M - Y =	489,492.7	N	M - X =	640,892.0	Е
LAT. =	32.346575	°N	LAT. =	32.346451	°N	N - Y =	489,490.6	N	N - X =	638,217.2	E
LONG. =	103.886116	°W	LONG. =	103.885622	°W						

618.013002.09-16

YΗ

DI 8 - EDDY/Wells/-16 - W 804H/DWG/W 804H C-102.dwg

T



## Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	XTO En EDDY C	COUNTY, NM (NA RANCH UNIT DI	D-27 / NME)	TVD Ref MD Refe North R	o-ordinate Refe ference: erence: eference: Calculation Me			3341.00usft (TB 3341.00usft (TB /ature	
Project	EDDY C	OUNTY, NM (NAE	0-27 / NME)						
Map System: Geo Datum: Map Zone:	NAD 1927	Plane 1927 (Exac (NADCON CON co East 3001		System I	Datum:	N	lean Sea Leve	I	
Site	JAMES F	RANCH UNIT DI 8	WARBONNET						
Site Position: From: Position Uncertair	Map nty:	0.00 usft	Northing: Easting: Slot Radius:	- /	.387.60 usft L	.atitude: .ongitude: Grid Conve			32.3509550 -103.8366276 0.266 °
Well	804H								
Well Position Position Uncertair	+N/-S +E/-W	-1,308.90 usft -229.00 usft 0.00 usft	Northing: Easting: Wellhead E	levation:	490,439.90 u 653,158.60 u 0.00 u	sft Lo	titude: ongitude: ound Level:		32.3473600 -103.8373888 3,309.00 usft
	,	0.00 doit	Frontioud 2	io rutioni	0.00 4				0,000.00 401
Design	PERMIT								
Audit Notes: Version:			Phase:	PLAN	Tie (	On Depth:		0.00	
Vertical Section:		(u	<b>rom (TVD)</b> sft) .00	<b>+N/-S</b> (usft) 0.00	+E/- (usf 0.00	ťt)		<b>ection</b> (°) 59.89	
Plan Sections									
	nation A (°)	Vertic zimuth Dep (°) (usf	th +N/-S	+E/-W (usft)	Dogleg Rate (°/100usft) (	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target

(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
10.20	104.41	2,507.35	-11.27	43.86	2.00	2.00	0.00	104.408	
10.20	104.41	9,746.49	-335.39	1,305.52	0.00	0.00	0.00	0.000	
90.00	269.89	10,417.00	-366.70	741.10	10.00	7.99	16.57	165.261 8	04H_FTP
90.00	269.89	10,417.00	-396.21	-14,844.40	0.00	0.00	0.00	0.000 8	04H_LTP
90.00	269.89	10,417.00	-396.30	-14,894.40	0.00	0.00	0.00	0.000 8	04H_BHL
	0.00 0.00 10.20 10.20 90.00 90.00	0.00         0.00           0.00         0.00           10.20         104.41           10.20         104.41           90.00         269.89           90.00         269.89	0.000.000.000.000.002,000.0010.20104.412,507.3510.20104.419,746.4990.00269.8910,417.0090.00269.8910,417.00	0.00         0.00         0.00         0.00           0.00         0.00         2,000.00         0.00           10.20         104.41         2,507.35         -11.27           10.20         104.41         9,746.49         -335.39           90.00         269.89         10,417.00         -366.70           90.00         269.89         10,417.00         -396.21	0.00         0.00         0.00         0.00         0.00           0.00         0.00         2,000.00         0.00         0.00           10.20         104.41         2,507.35         -11.27         43.86           10.20         104.41         9,746.49         -335.39         1,305.52           90.00         269.89         10,417.00         -366.70         741.10           90.00         269.89         10,417.00         -396.21         -14,844.40	0.00         0.00         0.00         0.00         0.00         0.00           0.00         0.00         2,000.00         0.00         0.00         0.00           10.20         104.41         2,507.35         -11.27         43.86         2.00           10.20         104.41         9,746.49         -335.39         1,305.52         0.00           90.00         269.89         10,417.00         -366.70         741.10         10.00           90.00         269.89         10,417.00         -396.21         -14,844.40         0.00	0.00         0.00 <th< th=""><th>0.00         <th< th=""><th>0.00         <th< th=""></th<></th></th<></th></th<>	0.00         0.00 <th< th=""><th>0.00         <th< th=""></th<></th></th<>	0.00         0.00 <th< th=""></th<>



## Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3341.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 32' @ 3341.00usft (TBD)
Site:	JAMES RANCH UNIT DI 8 WARBONNET	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
804H_SHL			100.00						
100.00 200.00 300.00 316.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	100.00 200.00 300.00 316.00	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
Rustler									
400.00 500.00 600.00 622.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	400.00 500.00 600.00 622.00	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
Salado/Top									
700.00 800.00 900.00 1,000.00 1,100.00 1,200.00 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 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	700.00 800.00 900.00 1,000.00 1,200.00 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 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00
1,800.00 1,900.00 2,000.00 2,100.00 2,200.00	0.00 0.00 0.00 2.00 4.00	0.00 0.00 0.00 104.41 104.41	1,800.00 1,900.00 2,000.00 2,099.98 2,199.84	0.00 0.00 0.00 -0.43 -1.74	0.00 0.00 0.00 1.69 6.76	0.00 0.00 0.00 -1.69 -6.76	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
2,300.00 2,400.00 2,500.00 2,510.04 2,548.29	6.00 8.00 10.00 10.20 10.20	104.41 104.41 104.41 104.41 104.41	2,299.45 2,398.70 2,497.47 2,507.35 2,545.00	-3.90 -6.94 -10.83 -11.27 -12.95	15.20 27.00 42.15 43.86 50.42	-15.19 -26.99 -42.13 -43.84 -50.40	2.00 2.00 2.00 2.00 0.00	2.00 2.00 2.00 2.00 0.00	0.00 0.00 0.00 0.00 0.00
	hydrite 1 Top								
2,600.00 2,700.00 2,800.00 2,900.00 2,944.56	10.20 10.20 10.20 10.20 10.20	104.41 104.41 104.41 104.41 104.41	2,595.89 2,694.31 2,792.73 2,891.15 2,935.00	-15.23 -19.64 -24.04 -28.45 -30.41	59.29 76.44 93.60 110.75 118.39	-59.26 -76.40 -93.55 -110.69 -118.33	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
Castile An	hydrite 1 Base	9							
3,000.00 3,100.00 3,171.14 Castile An	10.20 10.20 10.20 hydrite 2 Top	104.41 104.41 104.41	2,989.57 3,087.98 3,158.00	-32.86 -37.26 -40.40	127.90 145.05 157.26	-127.84 -144.98 -157.18	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,200.00	10.20	104.41	3,186.40	-41.67	162.21	-162.13	0.00	0.00	0.00
3,273.76 Castile An	10.20 hydrite 2 Base	104.41	3,259.00	-44.92	174.86	-174.77	0.00	0.00	0.00
3,300.00 3,400.00 3,500.00 3,600.00 3,636.50	10.20 10.20 10.20 10.20 10.20	104.41 104.41 104.41 104.41 104.41	3,284.82 3,383.24 3,481.66 3,580.08 3,616.00	-46.08 -50.48 -54.89 -59.30 -60.91	179.36 196.51 213.66 230.82 237.08	-179.27 -196.41 -213.56 -230.70 -236.96	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
Base Salt									

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## Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3341.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 32' @ 3341.00usft (TBD)
Site:	JAMES RANCH UNIT DI 8 WARBONNET	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH	-	
Desian:	PERMIT		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,700.00	10.20	104.41	3,678.50	-63.70	247.97	-247.85	0.00	0.00	0.00
3,800.00	10.20	104.41	3,776.92	-68.11	265.12	-264.99	0.00	0.00	0.00
3,882.38	10.20	104.41	3,858.00	-71.74	279.25	-279.12	0.00	0.00	0.00
<b>Delaware/L</b> 3,900.00 3,925.06	<b>.amar</b> 10.20 10.20	104.41 104.41	3,875.34 3,900.00	-72.52 -73.62	282.28 286.57	-282.14 -286.43	0.00 0.00	0.00 0.00	0.00 0.00
Bell Canyo	n								
4,000.00	10.20	104.41	3,973.76	-76.92	299.43	-299.28	0.00	0.00	0.00
4,100.00	10.20	104.41	4,072.18	-81.33	316.58	-316.42	0.00	0.00	0.00
4,200.00	10.20	104.41	4,170.60	-85.74	333.73	-333.57	0.00	0.00	0.00
4,300.00	10.20	104.41	4,269.02	-90.14	350.89	-350.71	0.00	0.00	0.00
4,400.00	10.20	104.41	4,367.44	-94.55	368.04	-367.86	0.00	0.00	0.00
4,500.00	10.20	104.41	4,465.86	-98.96	385.19	-385.00	0.00	0.00	0.00
4,600.00	10.20	104.41	4,564.27	-103.36	402.35	-402.15	0.00	0.00	0.00
4,700.00	10.20	104.41	4,662.69	-107.77	419.50	-419.29	0.00	0.00	0.00
4,800.00	10.20	104.41	4,761.11	-112.18	436.65	-436.43	0.00	0.00	0.00
4,900.00	10.20	104.41	4,859.53	-116.58	453.80	-453.58	0.00	0.00	0.00
5,000.00	10.20	104.41	4,957.95	-120.99	470.96	-470.72	0.00	0.00	0.00
5,018.34	10.20	104.41	4,976.00	-121.80	474.10	-473.87	0.00	0.00	0.00
Cherry Ca									
5,100.00	10.20	104.41	5,056.37	-125.40	488.11	-487.87	0.00	0.00	0.00
5,200.00	10.20	104.41	5,154.79	-129.80	505.26	-505.01	0.00	0.00	0.00
5,300.00	10.20	104.41	5,253.21	-134.21	522.41	-522.16	0.00	0.00	0.00
5,400.00	10.20	104.41	5,351.63	-138.62	539.57	-539.30	0.00	0.00	0.00
5,500.00	10.20	104.41	5,450.05	-143.02	556.72	-556.44	0.00	0.00	0.00
5,600.00	10.20	104.41	5,548.47	-147.43	573.87	-573.59	0.00	0.00	0.00
5,700.00	10.20	104.41	5,646.89	-151.84	591.03	-590.73	0.00	0.00	0.00
5,800.00	10.20	104.41	5,745.31	-156.24	608.18	-607.88	0.00	0.00	0.00
5,900.00	10.20	104.41	5,843.73	-160.65	625.33	-625.02	0.00	0.00	0.00
6,000.00	10.20	104.41	5,942.15	-165.06	642.48	-642.17	0.00	0.00	0.00
6,100.00	10.20	104.41	6,040.56	-169.46	659.64	-659.31	0.00	0.00	0.00
6,200.00	10.20	104.41	6,138.98	-173.87	676.79	-676.45	0.00	0.00	0.00
6,300.00	10.20	104.41	6,237.40	-178.28	693.94	-693.60	0.00	0.00	0.00
6,400.00	10.20	104.41	6,335.82	-182.68	711.10	-710.74	0.00	0.00	0.00
6,500.00	10.20	104.41	6,434.24	-187.09	728.25	-727.89	0.00	0.00	0.00
6,552.59	10.20	104.41	6,486.00	-189.41	737.27	-736.90	0.00	0.00	0.00
Brushy Ca									
6,600.00	10.20	104.41	6,532.66	-191.49	745.40	-745.03	0.00	0.00	0.00
6,700.00	10.20	104.41	6,631.08	-195.90	762.55	-762.18	0.00	0.00	0.00
6,800.00	10.20	104.41	6,729.50	-200.31	779.71	-779.32	0.00	0.00	0.00
6,900.00	10.20	104.41	6,827.92	-204.71	796.86	-796.46	0.00	0.00	0.00
7,000.00	10.20	104.41	6,926.34	-209.12	814.01	-813.61	0.00	0.00	0.00
7,100.00	10.20	104.41	7,024.76	-213.53	831.16	-830.75	0.00	0.00	0.00
7,200.00	10.20	104.41	7,123.18	-217.93	848.32	-847.90	0.00	0.00	0.00
7,300.00	10.20	104.41	7,221.60	-222.34	865.47	-865.04	0.00	0.00	0.00
7,400.00	10.20	104.41	7,320.02	-226.75	882.62	-882.19	0.00	0.00	0.00
7,500.00	10.20	104.41	7,418.44	-231.15	899.78	-899.33	0.00	0.00	0.00
7,600.00	10.20	104.41	7,516.85	-235.56	916.93	-916.47	0.00	0.00	0.00
7,700.00	10.20	104.41	7,615.27	-239.97	934.08	-933.62	0.00	0.00	0.00
7,769.83	10.20	104.41	7,684.00	-243.04	946.06	-945.59	0.00	0.00	0.00
Bone Sprin 7,800.00 7,817.59	ng Lm. 10.20 10.20	104.41 104.41	7,713.69 7,731.00	-244.37 -245.15	951.23 954.25	-950.76 -953.78	0.00 0.00	0.00 0.00	

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## Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3341.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 32' @ 3341.00usft (TBD)
Site:	JAMES RANCH UNIT DI 8 WARBONNET	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH	-	
Desian:	PERMIT		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Avalon Ss									
7,900.00 8,000.00	10.20 10.20	104.41 104.41	7,812.11 7,910.53	-248.78 -253.19	968.39 985.54	-967.91 -985.05	0.00 0.00	0.00 0.00	0.00 0.00
8,037.05	10.20	104.41	7,947.00	-254.82	991.90	-991.40	0.00	0.00	0.00
Upper Ava									
8,100.00 8,122.40	10.20 10.20	104.41 104.41	8,008.95 8,031.00	-257.59 -258.58	1,002.69 1,006.54	-1,002.20 -1,006.04	0.00 0.00	0.00 0.00	0.00 0.00
Upper Ava									
8,184.38	10.20	104.41	8,092.00	-261.31	1,017.17	-1,016.66	0.00	0.00	0.00
Middle Av 8,200.00	aion Carb. 10.20	104.41	8,107.37	-262.00	1,019.85	-1,019.34	0.00	0.00	0.00
			-						
8,300.00 8,377.43	10.20 10.20	104.41 104.41	8,205.79 8,282.00	-266.41 -269.82	1,037.00 1,050.28	-1,036.48 -1,049.76	0.00 0.00	0.00 0.00	0.00 0.00
Lw. Avalo		404.44	0.001.01	070.04	4 05 4 45	4 050 00	0.00	0.00	0.00
8,400.00 8,500.00 8,600.00	10.20 10.20 10.20	104.41 104.41 104.41	8,304.21 8,402.63 8,501.05	-270.81 -275.22 -279.63	1,054.15 1,071.30 1,088.46	-1,053.63 -1,070.77 -1,087.92	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,640.59	10.20	104.41	8,541.00	-281.42	1,095.42	-1,094.88	0.00	0.00	0.00
	Spring Carb.	10.1.1	0.500.45	00 1 00	4 407 0 :	4 407 00		0.05	
8,700.00 8,800.00 8,830.60	10.20 10.20 10.20	104.41 104.41 104.41	8,599.47 8,697.89 8,728.00	-284.03 -288.44 -289.79	1,105.61 1,122.76 1,128.01	-1,105.06 -1,122.21 -1,127.45	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
,	Spring Ss.		-,		.,	.,			
8,900.00	10.20	104.41	8,796.31	-292.85	1,139.91	-1,139.35	0.00	0.00	0.00
9,000.00 9,100.00 9,200.00 9,300.00 9,312.21	10.20 10.20 10.20 10.20 10.20	104.41 104.41 104.41 104.41 104.41 104.41	8,894.73 8,993.14 9,091.56 9,189.98 9,202.00	-297.25 -301.66 -306.07 -310.47 -311.01	1,157.07 1,174.22 1,191.37 1,208.53 1,210.62	-1,156.49 -1,173.64 -1,190.78 -1,207.93 -1,210.02	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 Spring Ca		9,202.00	-311.01	1,210.02	-1,210.02	0.00	0.00	0.00
9,400.00 9,500.00 9,600.00 9,675.96	10.20 10.20 10.20 10.20	104.41 104.41 104.41 104.41	9,288.40 9,386.82 9,485.24 9,560.00	-314.88 -319.29 -323.69 -327.04	1,225.68 1,242.83 1,259.98 1,273.01	-1,225.07 -1,242.22 -1,259.36 -1,272.38	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 Spring A S		0 500 00	220.40	4 077 4 4	1 070 50	0.00	0.00	0.00
9,700.00	10.20	104.41	9,583.66	-328.10	1,277.14	-1,276.50	0.00	0.00	0.00
9,762.33	10.20	104.41	9,645.00	-330.85	1,287.83	-1,287.19	0.00	0.00	0.00
9,800.00 9,819.22	one Spring A/E 10.20 10.20	3 Carb. 104.41 104.41	9,682.08 9,701.00	-332.51 -333.35	1,294.29 1,297.59	-1,293.65 -1,296.95	0.00 0.00	0.00 0.00	0.00 0.00
	one Spring B S		-,		.,	.,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00	0.00	0.00
9,865.45 9,900.00	10.20 6.91	104.41 111.72	9,746.49 9,780.66	-335.39 -336.92	1,305.52 1,310.41	-1,304.87 -1,309.76	0.00 10.00	0.00 -9.51	0.00 21.18
9,950.00 9,963.54	2.95 2.58	151.13 178.51	9,830.47 9,844.00	-339.16 -339.77	1,313.83 1,314.01	-1,313.18 -1,313.35	10.00 10.00	-7.94 -2.67	78.81 202.15
	e Spring Carb.								
10,000.00 10,050.00 10,100.00	4.42 8.96 13.82	234.16 253.27 259.33	9,880.40 9,930.05 9,979.05	-341.41 -343.66 -345.89	1,312.89 1,307.60 1,297.99	-1,312.23 -1,306.94 -1,297.33	10.00 10.00 10.00	5.03 9.09 9.72	152.64 38.23 12.12
10,150.00 10,188.45	18.76 22.57	262.26 263.66	10,027.03 10,063.00	-348.08 -349.73	1,284.15 1,270.69	-1,283.48 -1,270.01	10.00 10.00	9.87 9.92	5.86 3.65
Harkey Ss	•								

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## Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3341.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 32' @ 3341.00usft (TBD)
Site:	JAMES RANCH UNIT DI 8 WARBONNET	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН	-	
Desian:	PERMIT		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.00	23.72	264.00	10,073.62	-350.22	1,266.17	-1,265.50	10.00	9.93	2.92
10,250.00	28.69	265.16	10,118.47	-352.28	1,244.20	-1,243.52	10.00	9.95	2.33
10,255.18	29.21	265.26	10,123.00	-352.49	1,241.70	-1,241.02	10.00	9.96	1.92
Third Bone	Spring Shale								
10,300.00	33.67	266.01	10,161.23	-354.26	1,218.40	-1,217.72	10.00	9.96	1.66
10,350.00	38.66	266.66	10,201.59	-356.14	1,188.96	-1,188.28	10.00	9.97	1.30
10,400.00	43.64	267.18	10,239.23	-357.90	1,156.12	-1,155.43	10.00	9.98	1.04
10,450.00	48.63	267.62	10,273.86	-359.53	1,120.12	-1,119.42	10.00	9.98	0.87
10,500.00	53.63	267.99	10,305.23	-361.01	1,081.23	-1,080.53	10.00	9.98	0.74
10,550.00	58.62	268.32	10,333.09	-362.35	1,039.75	-1,039.05	10.00	9.99	0.65
10,600.00	63.61	268.61	10,357.23	-363.52	996.00	-995.30	10.00	9.99	0.59
10,650.00	68.61	268.88	10,377.48	-364.52	950.31	-949.61	10.00	9.99	0.54
10,700.00	73.60	269.13	10,393.67	-365.34	903.03	-902.32	10.00	9.99	0.50
10,750.00	78.60	269.37	10,405.67	-365.97	854.51	-853.81	10.00	9.99	0.48
10,800.00	83.59	269.60	10,413.41	-366.42	805.13	-804.43	10.00	9.99	0.46
10,850.00	88.58	269.83	10,416.83	-366.67	755.27	-754.56	10.00	9.99	0.45
10,864.17	90.00	269.89	10,417.00	-366.70	741.10	-740.39	10.00	9.99	0.45
Horizontal 10,900.00	Landing Poin 90.00	t - 804H_FTP 269.89	10.417.00	-366.77	705.27	-704.56	0.00	0.00	0.00
11,000.00	90.00	269.89	10,417.00	-366.96	605.27	-704.56	0.00	0.00	0.00
,									
11,100.00	90.00	269.89	10,417.00	-367.15	505.27	-504.56	0.00	0.00	0.00
11,200.00	90.00 90.00	269.89 269.89	10,417.00 10.417.00	-367.34	405.27	-404.56 -304.56	0.00	0.00 0.00	0.00 0.00
11,300.00 11,400.00	90.00	269.89	10,417.00	-367.53 -367.71	305.27 205.27	-304.56 -204.56	0.00 0.00	0.00	0.00
11,500.00	90.00	269.89	10,417.00	-367.90	105.27	-104.56	0.00	0.00	0.00
11,600.00	90.00	269.89 269.89	10,417.00	-368.09	5.27	-4.56 95.44	0.00	0.00 0.00	0.00 0.00
11,700.00 11,800.00	90.00 90.00	269.89	10,417.00 10,417.00	-368.28 -368.47	-94.73 -194.73	95.44 195.44	0.00 0.00	0.00	0.00
11,900.00	90.00	269.89	10,417.00	-368.66	-294.73	295.44	0.00	0.00	0.00
12,000.00	90.00	269.89	10,417.00	-368.85	-394.73	395.44	0.00	0.00	0.00
12,100.00	90.00	269.89	10,417.00	-369.04	-494.73	495.44	0.00	0.00	0.00
12,200.00	90.00	269.89	10,417.00	-369.23	-594.73	595.44	0.00	0.00	0.00
12,300.00	90.00	269.89	10,417.00	-369.42	-694.73	695.44	0.00	0.00	0.00
12,400.00	90.00	269.89	10,417.00	-369.61	-794.73	795.44	0.00	0.00	0.00
12,500.00	90.00	269.89	10,417.00	-369.80	-894.73	895.44	0.00	0.00	0.00
12,600.00	90.00	269.89	10,417.00	-369.99	-994.73	995.44	0.00	0.00	0.00
12,700.00	90.00	269.89	10,417.00	-370.18	-1,094.73	1,095.44	0.00	0.00	0.00
12,800.00	90.00	269.89	10,417.00	-370.36	-1,194.73	1,195.44	0.00	0.00	0.00
12,900.00	90.00	269.89	10,417.00	-370.55	-1,294.73	1,295.44	0.00	0.00	0.00
13,000.00	90.00	269.89	10,417.00	-370.74	-1,394.73	1,395.44	0.00	0.00	0.00
13,100.00	90.00	269.89	10,417.00	-370.93	-1,494.73	1,495.44	0.00	0.00	0.00
13,200.00	90.00	269.89	10,417.00	-371.12	-1,594.73	1,595.44	0.00	0.00	0.00
13,300.00	90.00	269.89	10,417.00	-371.31	-1,694.73	1,695.44	0.00	0.00	0.00
13,400.00	90.00	269.89	10,417.00	-371.50	-1,794.73	1,795.44	0.00	0.00	0.00
13,500.00	90.00	269.89	10,417.00	-371.69	-1,894.73	1,895.44	0.00	0.00	0.00
13,600.00	90.00	269.89	10,417.00	-371.88	-1,994.73	1,995.44	0.00	0.00	0.00
13,700.00	90.00	269.89	10,417.00	-372.07	-2,094.73	2,095.44	0.00	0.00	0.00
13,800.00 13.900.00	90.00 90.00	269.89 269.89	10,417.00 10,417.00	-372.26 -372.45	-2,194.73 -2,294.73	2,195.44 2,295.44	0.00 0.00	0.00 0.00	0.00 0.00
14,000.00	90.00	269.89	10,417.00	-372.45 -372.64	-2,294.73	2,295.44 2,395.44	0.00	0.00	0.00
			,			-			
14,100.00	90.00	269.89	10,417.00	-372.83	-2,494.73	2,495.44	0.00	0.00	0.00
14,200.00 14,300.00	90.00 90.00	269.89 269.89	10,417.00 10,417.00	-373.02 -373.20	-2,594.73 -2,694.73	2,595.44 2,695.44	0.00 0.00	0.00 0.00	0.00 0.00
14,300.00	90.00	269.89	10,417.00	-373.20	-2,694.73	2,695.44 2,795.44	0.00	0.00	0.00

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#### Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3341.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 32' @ 3341.00usft (TBD)
Site:	JAMES RANCH UNIT DI 8 WARBONNET	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH	-	
Design:	PERMIT		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,500.00	90.00	269.89	10,417.00	-373.58	-2,894.73	2,895.44	0.00	0.00	0.00
14,600.00 14,700.00 14,800.00 14,900.00 15,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-373.77 -373.96 -374.15 -374.34 -374.53	-2,994.73 -3,094.73 -3,194.73 -3,294.73 -3,394.73	2,995.44 3,095.44 3,195.44 3,295.44 3,395.44	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
15,100.00 15,200.00 15,300.00 15,400.00 15,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-374.72 -374.91 -375.10 -375.29 -375.48	-3,494.73 -3,594.73 -3,694.73 -3,794.73 -3,894.73	3,495.44 3,595.44 3,695.44 3,795.44 3,895.44	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
15,600.00 15,700.00 15,800.00 15,900.00 16,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-375.67 -375.85 -376.04 -376.23 -376.42	-3,994.72 -4,094.72 -4,194.72 -4,294.72 -4,394.72	3,995.44 4,095.44 4,195.44 4,295.44 4,395.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,100.00 16,200.00 16,300.00 16,400.00 16,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-376.61 -376.80 -376.99 -377.18 -377.37	-4,494.72 -4,594.72 -4,694.72 -4,794.72 -4,894.72	4,495.44 4,595.44 4,695.44 4,795.44 4,895.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,600.00 16,700.00 16,800.00 16,900.00 17,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-377.56 -377.75 -377.94 -378.13 -378.32	-4,994.72 -5,094.72 -5,194.72 -5,294.72 -5,394.72	4,995.44 5,095.44 5,195.44 5,295.44 5,395.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
17,100.00 17,200.00 17,300.00 17,400.00 17,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-378.51 -378.69 -378.88 -379.07 -379.26	-5,494.72 -5,594.72 -5,694.72 -5,794.72 -5,894.72	5,495.44 5,595.44 5,695.44 5,795.44 5,895.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
17,600.00 17,700.00 17,800.00 17,900.00 18,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-379.45 -379.64 -379.83 -380.02 -380.21	-5,994.72 -6,094.72 -6,194.72 -6,294.72 -6,394.72	5,995.44 6,095.44 6,195.44 6,295.44 6,395.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,100.00 18,200.00 18,300.00 18,400.00 18,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-380.40 -380.59 -380.78 -380.97 -381.16	-6,494.72 -6,594.72 -6,694.72 -6,794.72 -6,894.72	6,495.44 6,595.44 6,695.44 6,795.44 6,895.44	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
18,600.00 18,700.00 18,800.00 18,900.00 19,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-381.34 -381.53 -381.72 -381.91 -382.10	-6,994.72 -7,094.72 -7,194.72 -7,294.72 -7,394.72	6,995.44 7,095.44 7,195.44 7,295.44 7,395.44	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
19,100.00 19,200.00 19,300.00 19,400.00 19,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-382.29 -382.48 -382.67 -382.86 -383.05	-7,494.72 -7,594.72 -7,694.72 -7,794.72 -7,894.72	7,495.44 7,595.44 7,695.44 7,795.44 7,895.44	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
19,600.00 19,700.00 19,800.00	90.00 90.00 90.00	269.89 269.89 269.89	10,417.00 10,417.00 10,417.00	-383.24 -383.43 -383.62	-7,994.72 -8,094.72 -8,194.72	7,995.44 8,095.44 8,195.44	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

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#### Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3341.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 32' @ 3341.00usft (TBD)
Site:	JAMES RANCH UNIT DI 8 WARBONNET	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT		

#### Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,900.00 20,000.00	90.00 90.00	269.89 269.89	10,417.00 10,417.00	-383.81 -384.00	-8,294.72 -8,394.72	8,295.44 8,395.44	0.00 0.00	0.00 0.00	0.00 0.00
20,100.00 20,200.00 20,300.00 20,400.00 20,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-384.18 -384.37 -384.56 -384.75 -384.94	-8,494.72 -8,594.72 -8,694.72 -8,794.72 -8,894.72	8,495.44 8,595.44 8,695.44 8,795.44 8,895.44	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
20,600.00 20,700.00 20,800.00 20,900.00 21,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-385.13 -385.32 -385.51 -385.70 -385.89	-8,994.72 -9,094.72 -9,194.72 -9,294.72 -9,394.72	8,995.44 9,095.44 9,195.44 9,295.44 9,395.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
21,100.00 21,200.00 21,300.00 21,400.00 21,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-386.08 -386.27 -386.46 -386.65 -386.83	-9,494.72 -9,594.72 -9,694.71 -9,794.71 -9,894.71	9,495.44 9,595.44 9,695.44 9,795.44 9,895.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
21,600.00 21,700.00 21,800.00 21,900.00 22,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-387.02 -387.21 -387.40 -387.59 -387.78	-9,994.71 -10,094.71 -10,194.71 -10,294.71 -10,394.71	9,995.44 10,095.44 10,195.44 10,295.44 10,395.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
22,100.00 22,200.00 22,300.00 22,400.00 22,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-387.97 -388.16 -388.35 -388.54 -388.73	-10,494.71 -10,594.71 -10,694.71 -10,794.71 -10,894.71	10,495.44 10,595.44 10,695.44 10,795.44 10,895.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
22,600.00 22,700.00 22,800.00 22,900.00 23,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-388.92 -389.11 -389.30 -389.49 -389.67	-10,994.71 -11,094.71 -11,194.71 -11,294.71 -11,394.71	10,995.44 11,095.44 11,195.44 11,295.44 11,395.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
23,100.00 23,200.00 23,300.00 23,400.00 23,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-389.86 -390.05 -390.24 -390.43 -390.62	-11,494.71 -11,594.71 -11,694.71 -11,794.71 -11,894.71	11,495.44 11,595.44 11,695.44 11,795.44 11,895.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
23,600.00 23,700.00 23,800.00 23,900.00 24,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-390.81 -391.00 -391.19 -391.38 -391.57	-11,994.71 -12,094.71 -12,194.71 -12,294.71 -12,394.71	11,995.44 12,095.44 12,195.44 12,295.44 12,395.44	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
24,100.00 24,200.00 24,300.00 24,400.00 24,500.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-391.76 -391.95 -392.14 -392.33 -392.51	-12,494.71 -12,594.71 -12,694.71 -12,794.71 -12,894.71	12,495.44 12,595.44 12,695.44 12,795.44 12,895.44	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
24,600.00 24,700.00 24,800.00 24,900.00 25,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-392.70 -392.89 -393.08 -393.27 -393.46	-12,994.71 -13,094.71 -13,194.71 -13,294.71 -13,394.71	12,995.44 13,095.44 13,195.44 13,295.44 13,395.44	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
25,100.00 25,200.00	90.00 90.00	269.89 269.89	10,417.00 10,417.00	-393.65 -393.84	-13,494.71 -13,594.71	13,495.44 13,595.44	0.00 0.00	0.00 0.00	0.00 0.00

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# Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 804H
Company:	XTO Energy	TVD Reference:	RKB = 32' @ 3341.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 32' @ 3341.00usft (TBD)
Site:	JAMES RANCH UNIT DI 8 WARBONNET	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН	-	
Desian:	PERMIT		

#### **Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
25,300.00 25,400.00 25,500.00	90.00 90.00 90.00	269.89 269.89 269.89	10,417.00 10,417.00 10,417.00	-394.03 -394.22 -394.41	-13,694.71 -13,794.71 -13,894.71	13,695.44 13,795.44 13,895.44	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
25,600.00 25,700.00 25,800.00 25,900.00 26,000.00	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-394.60 -394.79 -394.98 -395.16 -395.35	-13,994.71 -14,094.71 -14,194.71 -14,294.71 -14,394.71	13,995.44 14,095.44 14,195.44 14,295.44 14,395.44	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
26,100.00 26,200.00 26,300.00 26,400.00 26,449.70	90.00 90.00 90.00 90.00 90.00	269.89 269.89 269.89 269.89 269.89 269.89	10,417.00 10,417.00 10,417.00 10,417.00 10,417.00	-395.54 -395.73 -395.92 -396.11 -396.21	-14,494.71 -14,594.71 -14,694.71 -14,794.71 -14,844.40	14,495.44 14,595.44 14,695.44 14,795.44 14,845.13	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
804H_LTP 26,499.70	90.00	269.89	10,417.00	-396.30	-14,894.40	14,895.13	0.00	0.00	0.00
804H_BHL									

## **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
804H_SHL - plan hits target ce - Point	0.00 Inter	0.00	0.00	0.00	0.00	490,439.90	653,158.60	32.3473600	-103.8373888
804H BHL - plan hits target ce - Point	0.00 nter	0.00	10,417.00	-396.30	-14,894.40	490,043.60	638,264.20	32.3464510	-103.8856225
804H_FTP - plan hits target ce - Point	0.00 nter	0.00	10,417.00	-366.70	741.10	490,073.20	653,899.70	32.3463425	-103.8349946
804H_LTP - plan misses targe - Point	0.00 t center by		10,417.00 26449.69u		-14,844.40 17.00 TVD, -3	490,043.70 396.21 N, -14844	638,314.20 .40 E)	32.3464507	-103.8854606

## Received by OCD: 11/12/2024 1:21:44 PM



# Planning Report

Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well 804H RKB = 32' @ 3341.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 32' @ 3341.00usft (TBD)
Site:	JAMES RANCH UNIT DI 8 WARBONNET	North Reference:	Grid
Well:	804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
316.00	316.00	Rustler				
622.00	622.00	Salado/Top of Salt				
2,548.29	2,545.00	Castile Anhydrite 1 Top				
2,944.56	2,935.00	Castile Anhydrite 1 Base				
3,171.14	3,158.00	Castile Anhydrite 2 Top				
3,273.76	3,259.00	Castile Anhydrite 2 Base				
3,636.50	3,616.00	Base Salt				
3,882.38	3,858.00	Delaware/Lamar				
3,925.06	3,900.00	Bell Canyon				
5,018.34	4,976.00	Cherry Canyon				
6,552.59	6,486.00	Brushy Canyon Ss.				
7,769.83	7,684.00	Bone Spring Lm.				
7,817.59	7,731.00	Avalon Ss.				
8,037.05	7,947.00	Upper Avalon Carb.				
8,122.40	8,031.00	Upper Avalon Sh.				
8,184.38	8,092.00	Middle Avalon Carb.				
8,377.43	8,282.00	Lw. Avalon Sh.				
8,640.59	8,541.00	First Bone Spring Carb.				
8,830.60	8,728.00	First Bone Spring Ss.				
9,312.21	9,202.00	Second Bone Spring Carb.				
9,675.96	9,560.00	Second Bone Spring A Ss.				
9,762.33	9,645.00	Second Bone Spring A/B Carb.				
9,819.22	9,701.00	Second Bone Spring B Ss.				
9,963.54	9,844.00	Third Bone Spring Carb.				
10,188.45	10,063.00	Harkey Ss.				
10,255.18	10,123.00	Third Bone Spring Shale				
10,864.17	10,417.00	Horizontal Landing Point				

### **Cement Variance Request**

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6486') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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



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

PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: crpe&s@gates.com WEB: www.gates.com

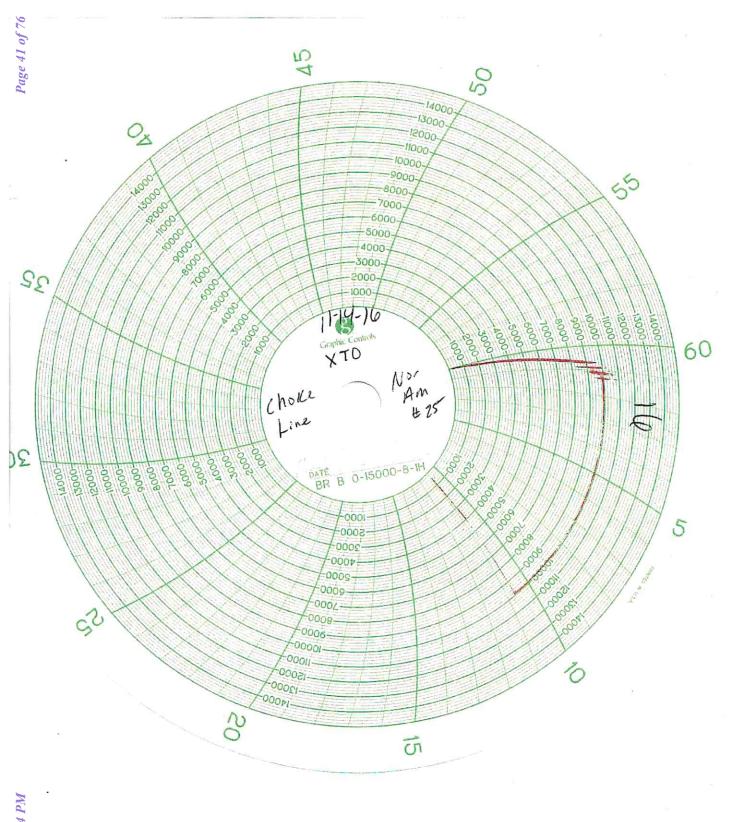
# GRADE D PRESSURE TEST CERTIFICATE

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

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

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ity: : iture :	QUALITY A 6/8/2014 A WIND	Technical Supervisor : Date : Signature :	PRODUCTION 56/8/2014

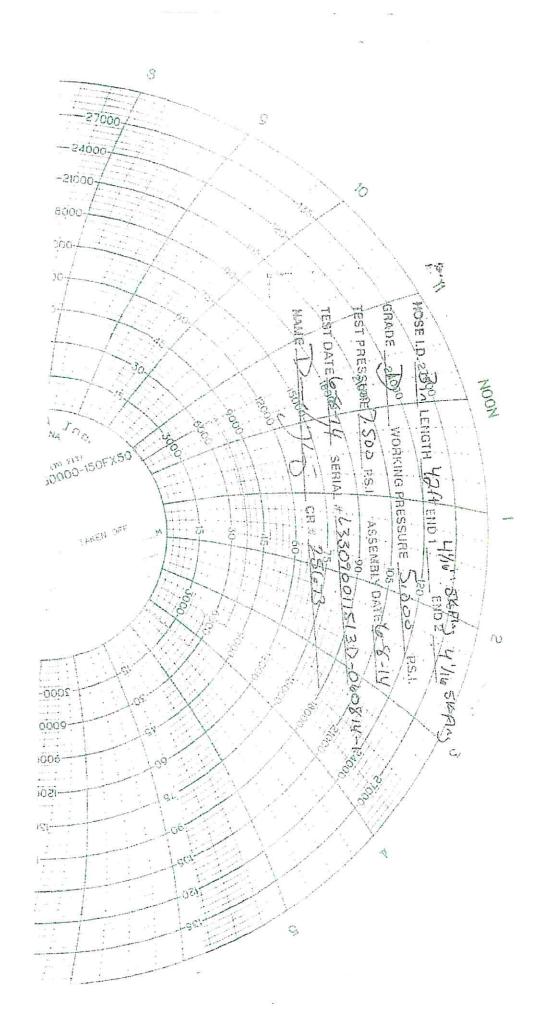
Form PTC - 01 Rev.0 2

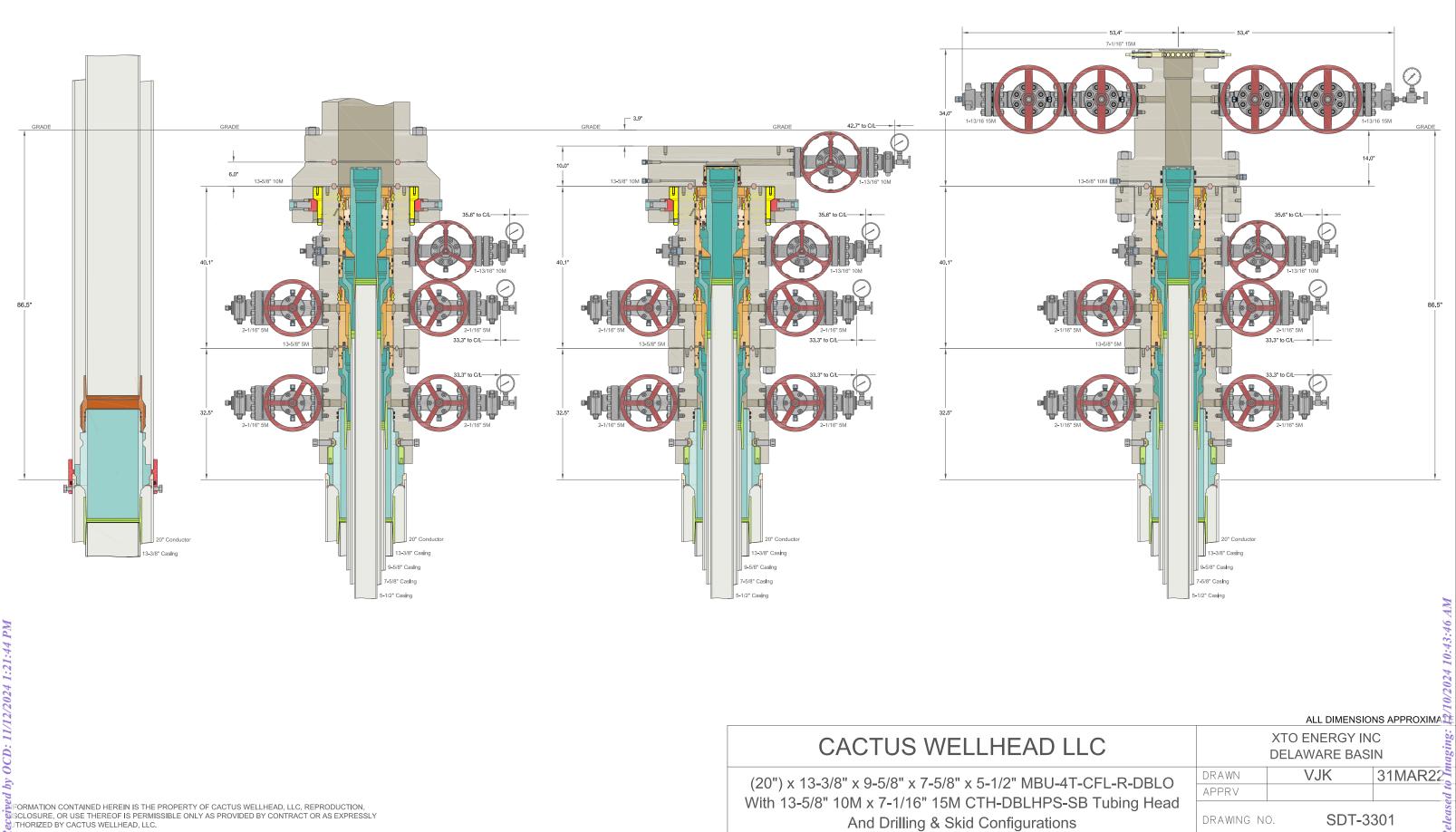


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#### **XTO Permian Operating, LLC Offline Cementing Variance Request**

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.

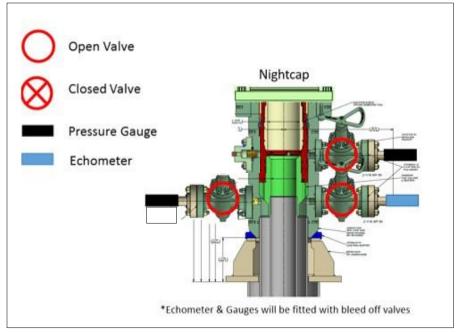
## 2. Offline Cementing Procedure

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

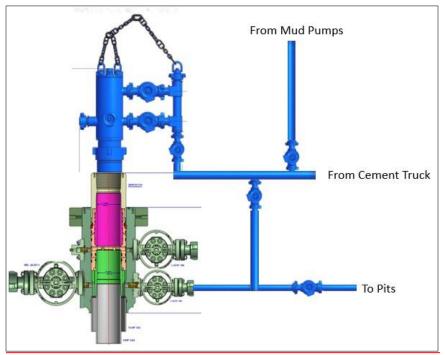


#### **XTO Permian Operating, LLC Offline Cementing Variance Request**

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 3<sup>rd</sup> party pump will be tied into the upper casing valve to pump down the casing ID
    - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
    - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
    - v. Well will be confirmed static
    - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment





Wellhead diagram during offline cementing operations

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

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

Description of Operations:

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

**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.

Designed Test Law	Pressure Test-	-High Pressure <sup>ac</sup>
Pressure Test—Low Pressure <sup>ac</sup> 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	ITP
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	ASP for the well program,
250 to 350 (1.72 to 2.41)	MASP for the well program	
e during the evaluation period. The pressure tested on the largest and sm	pressure shall not decrease below the allest OD drill pipe to be used in well	program.
		uired for pressure-containing ar
	psig (MPa)           250 to 350 (1.72 to 2.41)           shall be a minimum of five minutes.           e during the evaluation period. The I pressure tested on the largest and sm g from one wellhead to another withing the another	Pressure Test-Low Pressure         Change Out of Component, Elastomer, or Ring Gasket           250 to 350 (1.72 to 2.41)         RWP of annular preventer           250 to 350 (1.72 to 2.41)         RWP of ram preventer or wellhead system, whichever is lower           250 to 350 (1.72 to 2.41)         RWP of ram preventer or wellhead system, whichever is lower           250 to 350 (1.72 to 2.41)         RWP of ram preventers or wellhead system, whichever is lower           250 to 350 (1.72 to 2.41)         RWP of ram preventers or wellhead system, whichever is lower           250 to 350 (1.72 to 2.41)         RWP of valve(s), line(s), or M whichever is lower           250 to 350 (1.72 to 2.41)         RWP of valve(s), line(s), or M whichever is lower

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.

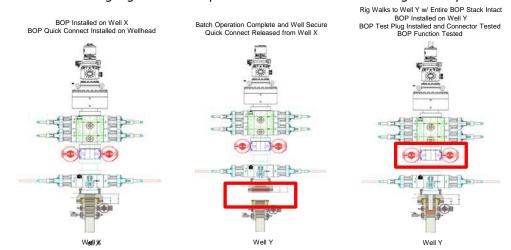
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 Oand often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often 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.

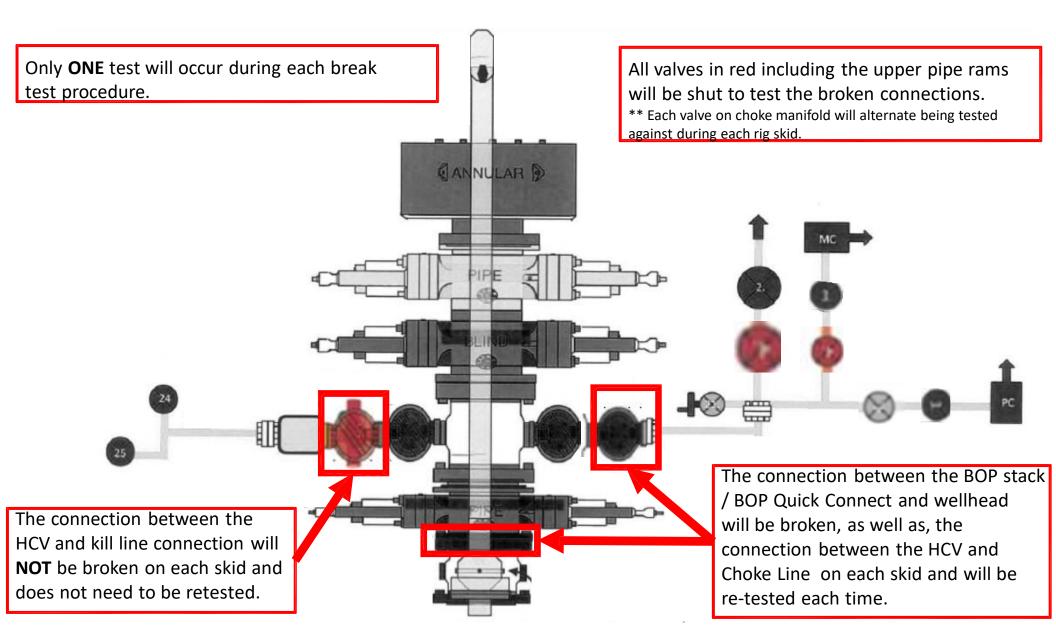
Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

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.



# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	XTO Permian Operating LLC
WELL NAME & NO.:	James Ranch Unit DI 8 Warbonnet 804H
LOCATION:	Sec 36-22S-30E-NMP
COUNTY:	Eddy County, New Mexico

# COA

H <sub>2</sub> S	🗘 No	• Yes		
Potash / WIPP	C None	C Secretary	🖲 R-111-P	□ WIPP
Cave / Karst	C Low	Medium	🖸 High	Critical
Wellhead	Conventional	Multibowl	C Both	C Diverter
Cementing	Primary Squeeze	🗹 Cont. Squeeze	EchoMeter	DV Tool
Special Req	Break Testing	🗖 Water Disposal	COM	🗹 Unit
Variance	Flex Hose	Casing Clearance	🗖 Pilot Hole	🗆 Capitan Reef
Variance	✓ Four-String	Offline Cementing	🗆 Fluid-Filled	Open Annulus
	Γ	Batch APD / Sundry		

**ADDITIONAL LANGUAGE FROM BLM GEOLOGIST:** There is a Potash Company or the WIPP Boundary within **one mile**. Any operator within the KPLA must notify any Potash mine as soon as possible if any of the following conditions are encountered during oil and gas operations within Known Potash Leasing Area (KPLA):

- i. Notable water flow outside of casing in the salt formation
- ii. Indication of any well collision event
- iii. Indication of any notable well fluid flow outside of casing
- iv. Sustained annuli pressures above MAWOP (maximum allowable wellhead operating pressure) observed in monitored annuli [BLM comment: need to specify % increases outside of MAWOP that would trigger Potash and BLM notification]
- v. increases in mud returns (+/- 20 bbls per hour) and duration of flow while drilling the salt interval (WIPP)

## A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Castile Anhydrite** formation. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

# **B.** CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately 597 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. *Note from BLM Geologist: If the Salt is encountered, set casing at least 25 feet above the Salt Formation.* 
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24</u> <u>hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
  - In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
- 3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.</u> Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. If cement does not reach surface, the next casing string must come to surface. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **700 feet** into previous casing string (due to not meeting the 0.422" clearance requirement per 43 CFR 3172.) Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

# C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

# **D. SPECIAL REQUIREMENT (S)**

## **Unit Wells**

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

## **Commercial Well Determination**

A commercial well determination shall be submitted after production has been established for at least six months.

## **BOPE Break Testing Variance**

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

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (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 Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

## **Offline Cementing**

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

# **GENERAL REQUIREMENTS**

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

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

## Eddy County (API No. / US Well No. contains 30-015-######)

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, <u>BLM\_NM\_CFO\_DrillingNotifications@blm.gov;</u> (575) 361-2822

## Lea County (API No. / US Well No. contains 30-025-#####)

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary

table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

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

# A. CASING

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

- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

## **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the

slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

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

D. **WASTE MATERIAL AND FLUIDS:** All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Page 8 of 8



# 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 H<sub>2</sub>S, 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 H<sub>2</sub>S 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 H<sub>2</sub>S, 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 (SO<sub>2</sub>). 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 H<sub>2</sub>S and SO<sub>2</sub>

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

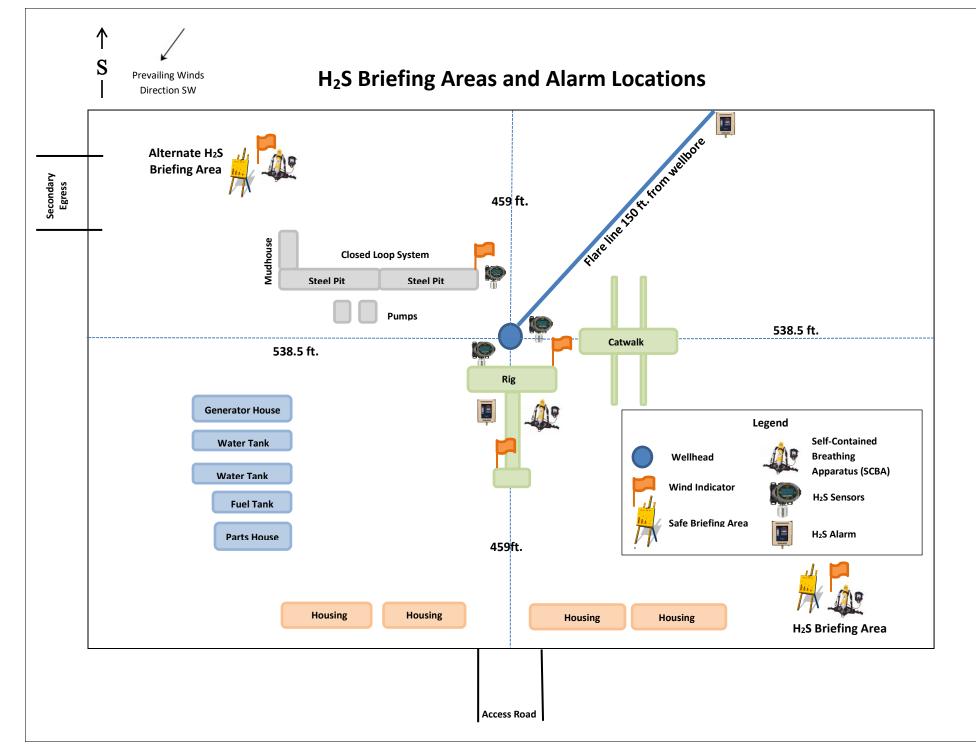
## **Contacting Authorities**

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

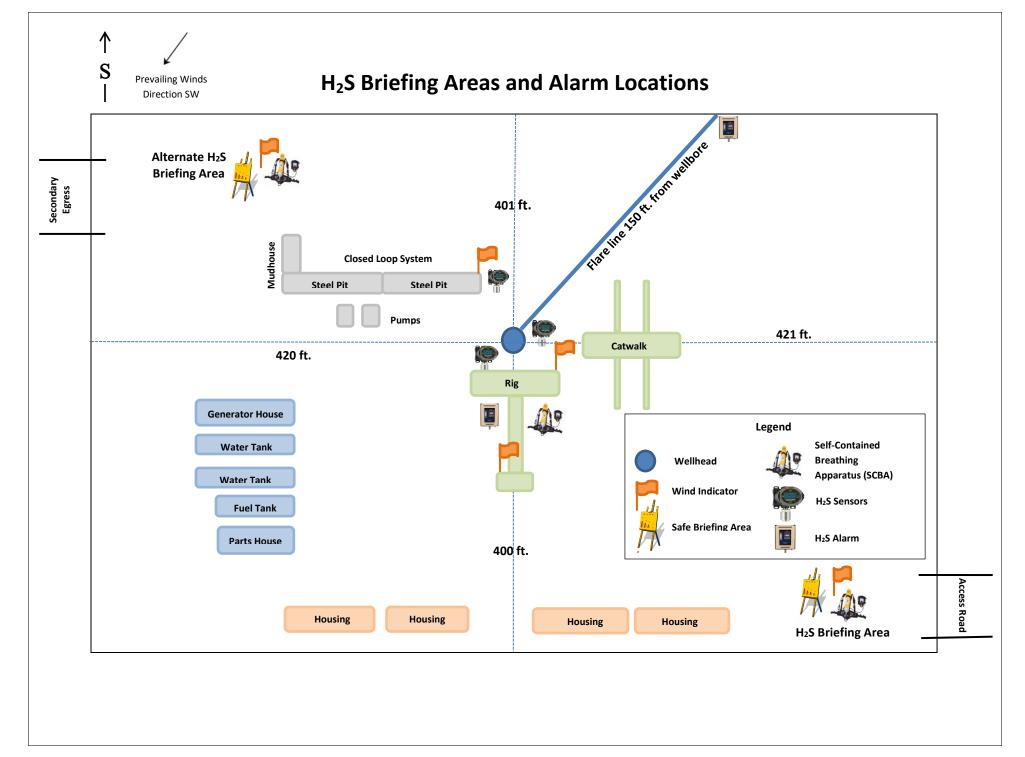
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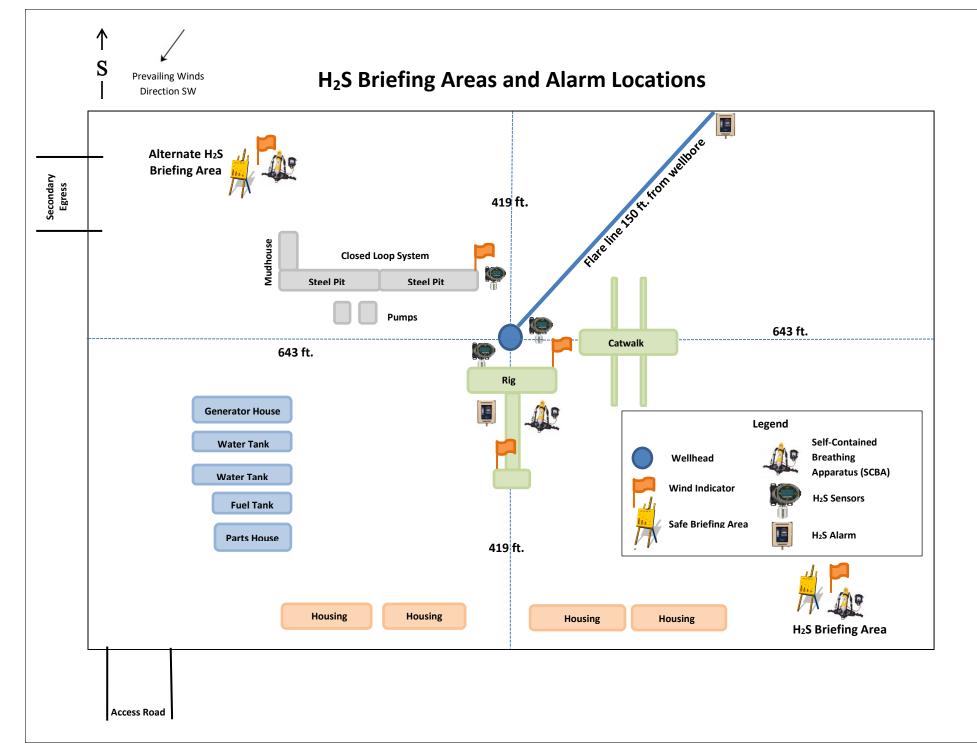
# **CARLSBAD OFFICE – EDDY & LEA COUNTIES**

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
<b>XTO PERSONNEL:</b> Jesse Chondo, Drilling Manager Sean Strode, Drilling Superintendent Josh Davis, Construction Foreman Andy Owens, EH & S Manager Mike Allen, Production Foreman	432-210-7505 432-234-0875 936-332-2212 903-245-2602 918-421-9056
SHERIFF DEPARTMENTS:	
Eddy County	575-887-7551
Lea County	575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington HOSPITALS: Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359 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



Released to Imaging: 12/10/2024 10:43:46 AM





Released to Imaging: 12/10/2024 10:43:46 AM

### Received by OCD: 11/12/2024 1:21:44 PM

# AFMSS

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

APD ID: 10400096347

**Operator Name: XTO PERMIAN OPERATING LLC** Well Name: JAMES RANCH UNIT DI 8 WARBONNET Well Type: OIL WELL

# **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

JRU\_DI\_8\_WARBONNET\_804H\_Road\_20231215153135.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? YES

Show Final Text

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 Number: 804H

Well Work Type: Drill

**Operator Name:** XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

JRU\_DI\_8\_Warbonnet\_Eagle\_1Mile\_20231208060944.pdf

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

### Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: Production Facilities. No additional tank battery is required or being applied for on the James Ranch Unit DI 8 project. If the wells are economically capable of production, they will flow to the existing James Ranch Unit DI 8 CTB previously approved by the BLM located on New Mexico State land in the SWNW, Section 36-22S-30E (Centerpoint: 334FWL & 2295FNL). No additional surface disturbance is anticipated. Buried & Surface Flowlines. No additional flowlines are required or requested for the James Ranch Unit DI 8 project area. No additional surface disturbance is anticipated. Gas & Oil Pipeline. Oil and gas pipelines are not required or requested for the James Ranch Unit DI 8 project area. No additional surface disturbance is anticipated. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. Flare. A flare is not requested or being applied for on the James Ranch Unit DI 8 project area. No additional surface disturbance is anticipated. 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. 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 times the capacity of the largest tank and away from cut or fill areas. Electrical. No additional electric lines are requested or being applied for on the James Ranch Unit DI 8 project area. No additional surface disturbance is anticipated.

# 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, New Mexico. 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

Received by OCD: 11/12/2024 1:21:44 Pl	M	Page 68 of 76
Operator Name: XTO PERMIAN OPI	ERATING LLC	
Well Name: JAMES RANCH UNIT DI	8 WARBONNET Well Num	ber: 804H
Source transportation land owner	rshin: FEDERAI	
Water source volume (barrels): 20	-	Source volume (acre-feet): 257.78619266
Source volume (gal): 84000000		
Water source type: OTHER		
Describe type: Fresh Water; Section	on 6, T25S-R29E, Eddy County,	
New Mexico 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: COMMER	RCIAL	
Source transportation land owne	rship: FEDERAL	
Water source volume (barrels): 20	000000	Source volume (acre-feet): 257.78619266
Source volume (gal): 84000000		

## Water source and transportation

JRU\_DI\_8\_WARBONNET\_804H\_Wtr\_20231215153222.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, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO Permian Operating, LLC. at time of drilling and completion, then XTO Permian Operating, LLC. water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico. Anticipated water usage for drilling includes an estimated 35,000 barrels 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 ~1.5bbls 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 as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

Received by OCD: 11/12/2024 1:21:44 PM

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

New water well? N

	New Water Well Inf	ο		
We	Il latitude:	Well Longit	ude:	Well datum:
We	Il target aquifer:			
Est	. depth to top of aquifer(ft):		Est thickness of aquifer:	
Aq	uifer comments:			
Aq	uifer documentation:			
Well	depth (ft):	w	ell casing type:	
Well	casing outside diameter (in.):	w	ell casing inside diameter	(in.):
New	water well casing?	U	sed casing source:	
Drillir	ng method:	Di	rill material:	
Grou	t material:	G	rout depth:	
Casir	ng length (ft.):	Ca	asing top depth (ft.):	
Well	Production type:	Co	ompletion Method:	
Wate	r well additional information:			
State	appropriation permit:			
Addit	ional information attachment:			

## **Section 6 - Construction Materials**

Using any construction materials: YES

**Construction Materials description:** Pit 1: State Caliche Pit, Section 32-T21S-R31E, SESW Pit 2: Private Caliche Pit, Section 16-T23S-R30E, SESW **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 containmant 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: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

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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 containmant 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 containmant 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 approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Amount of waste: 250 pounds

### Waste disposal frequency : Weekly

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

# Received by OCD: 11/12/2024 1:21:44 PM

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Safe containmant attachment:

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

Disposal location description: A licensed 3rd party contractor 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.)

Well Number: 804H

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

**Reserve pit liner** 

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

**Section 8 - Ancillary** 

Are you requesting any Ancillary Facilities  $\ref{eq:second}$  N

**Ancillary Facilities** 



**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

## Section 9 - Well Site

#### Well Site Layout Diagram:

JRU\_DI\_8\_WARBONNET\_804H\_Well\_20231215153312.pdf JRU\_DI\_8\_WARBONNET\_804H\_RL\_20231215153321.pdf Comments: Multi-well pad.

## **Section 10 - Plans for Surface Reclamation**

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: JRU DI 8 WARBONNET

### Multiple Well Pad Number: B

#### Recontouring

JRU\_DI\_8\_Warbonnet\_Eagle\_IR3\_20231208062013.pdf

JRU\_DI\_8\_Warbonnet\_Eagle\_IR1\_20231208062013.pdf

JRU\_DI\_8\_Warbonnet\_Eagle\_IR2\_20231208094506.pdf

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

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

Well pad proposed disturbance (acres):	Well pad interim reclamation (acres): 0	Well pad long term disturbance (acres): 0
Road proposed disturbance (acres):	Road interim reclamation (acres): 0	Road long term disturbance (acres): 0
Powerline proposed disturbance (acres):	Powerline interim reclamation (acres):	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres):	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres):	Other interim reclamation (acres): $0$	Other long term disturbance (acres): 0
Total proposed disturbance: 0	Total interim reclamation: 0	Total long term disturbance: 0

### **Disturbance Comments:**

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

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

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

*Received by OCD: 11/12/2024 1:21:44 PM* 

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

**Existing Vegetation at the well pad:** Soils are classified of Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and cresoste. **Existing Vegetation at the well pad** 

**Existing Vegetation Community at the road:** Soils are classified of Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and cresoste. **Existing Vegetation Community at the road** 

**Existing Vegetation Community at the pipeline:** Soils are classified of Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and cresoste. **Existing Vegetation Community at the pipeline** 

**Existing Vegetation Community at other disturbances:** Soils are classified of Reeves soils. These soils are associated with the loamy ecological site which typically supports black and blue grama and tobosa grasslands with an even distribution of yucca, mesquite, American tarbush, cholla, and cresoste. **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

 Total pounds/Acre:

 Seed Type
 Pounds/Acre

 Seed reclamation
 Founds/Acre
 Founds/Acre

**Operator Contact/Responsible Official** 

# **Operator Name:** XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT DI 8 WARBONNET

Well Number: 804H

First Name: James

Last Name: Scott

Phone: (432)571-8202

Email: james.l.scott@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:

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**

Disturbance type: EXISTING ACCESS ROAD

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:

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Operator Name: XTO PERMIAN OPERATING LLC	
Well Name: JAMES RANCH UNIT DI 8 WARBONNET	Well Number: 804H
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Section 12 - Other	
Right of Way needed? Y	Use APD as ROW? Y
ROW Type(s): 281001 ROW - ROADS,285003 ROW - PO Facility Sites,289001 ROW- O&G Well Pad,FLPMA (Powerli	WER TRANS,288100 ROW – O&G Pipeline,288101 ROW – O&G ine)
ROW	

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

Use a previously conducted onsite? Y

Previous Onsite information: April 16 2018 By Jeff Roberts BLM NRS.

Other SUPO

JRU\_DI\_8\_Warbonnet\_Eagle\_SUPO\_20231208062234.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

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	402599
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

CONDITIONS		
Created By	Condition	Condition Date
jaustin	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/12/2024
jaustin	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/12/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/10/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/10/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/10/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/10/2024
ward.rikala	Operator must comply with all of the R-111-Q requirements. Additionally, this well is within 1 mile of the WIPP boundary. Operator must comply with notification requirements.	12/10/2024

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