Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30**-0**15-56020 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

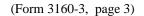
Additional Operator Remarks

Location of Well

0. SHL: NESE / 2228 FSL / 871 FEL / TWSP: 22S / RANGE: 30E / SECTION: 24 / LAT: 32.376461 / LONG: -103.828412 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 726 FNL / 330 FEL / TWSP: 22S / RANGE: 30E / SECTION: 24 / LAT: 32.382852 / LONG: -103.826655 (TVD: 12327 feet, MD: 13400 feet) BHL: NWNE / 726 FNL / 2629 FEL / TWSP: 22S / RANGE: 30E / SECTION: 23 / LAT: 32.382889 / LONG: -103.851407 (TVD: 12327 feet, MD: 20294 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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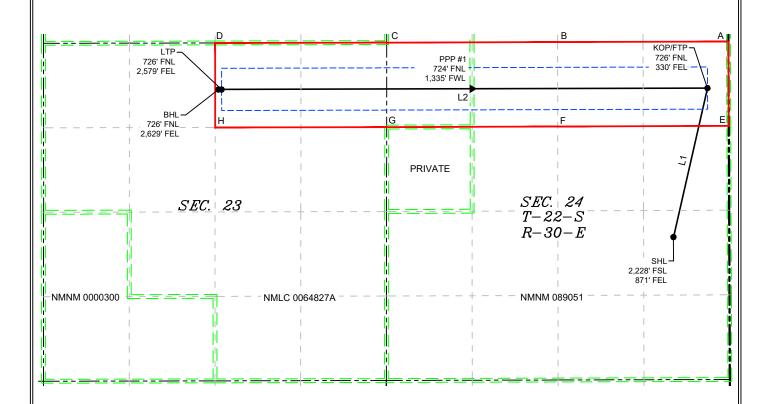
<u>C-10</u> 2	2			Energy, N	State of Ne Minerals & Natur	ew Mexico ral Resources Department			Re	evised July, 09 2024
	electronically			OIL CONVERSION DIVISION						
Via OC	D Permitting								☑ Initial Sub	nittal
								Submital Type:	Amended l	Report
									☐As Drilled	
			,		WELL LOCA	TION INFORMATION				
API Nu		5- 50000	Pool Code Pool Name 96336 96597 LOS MEDANOS; WOLFCAMP SOUTH							
Property		5-56020	Property N		31	LOS MEDANOS,	WOLFCAM	1 500111	Well Number	
	3368	69			JAMES RA	NCH UNIT APACHE				135H
OGRID	No. 37307	' 5	Operator N	ame	XTO PERMIA	AN OPERATING, LLC	Э.		Ground Level	Elevation 3,395'
Surface	Owner: S	State Fee	Tribal ⊠Fec	leral		Mineral Owner:	tate Fee [☐Tribal 🏻	Federal	
						1				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
1	24	228	30E		2,228 FSL	871 FEL	32.376		103.828412	EDDY
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	1	Longitude	County
В	23	228	30E		726 FNL	2,629 FEL	32.382	889 -	103.851407	EDDY
		1								
Dedicate	ed Acres	Infill or Defi	ning Well	Defining	g Well API	Overlapping Spacing V	Unit (Y/N)	Consolidat	tion Code	
24	10.00	INF	ILL			Y			Р	
Order N	lumbers.		R-279-C			Well Setbacks are und	er Common O	wnership:	ĭ Yes ☐ No	
					Kick (Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	1	Longitude	County
Α	24	228	30E		726 FNL	330 FEL	32.382	852 -	103.826655	EDDY
		1			First T	 Take Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude]	Longitude	County
A	24	228	30E		726 FNL	330 FEL	32.382	582 -	103.826655	EDDY
					Last T	ake Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude]	Longitude	County
В	23	228	30E		726 FNL	2,579 FEL	32.382	889 -	103.851245	EDDY
TT '4'	1 4 6 4	CT						1771		
Unitized	d Area of Are	ea of Interest		Spacing U	nit Type : 🛮 Hori	zontal Vertical	Grour	nd Elevation	3,395'	
							l			
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFIC	ATIONS			
best of n	ny knowledge	e and belief, and	, if the well is	vertical or d	nd complete to the directional well,	I hereby certify that the watual surveys made by n	ie or under my			
in the la	nd including		ottom hole loca	ation or has	ed mineral interest a right to drill this		belief			
unleased	d mineral inte	erest, or a volun etofore entered l	tary pooling a	greement o	r a compulsory			/3	DILLON	YARD
If this w	ell is a horiz	ontal well, I furt	her certify tha	t this organ				***	HEN MEY/CO	18
received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in							ם	(23786)	<u>.</u>	
which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.					,	1/	OF /			
Srinivas Naveln 9/19/2024								1.0	23786 SONAL S	UR/
Signatur	re		Date			Signature and Seal of Pro				
Sri	nivas Navec	en Laghuvaraj)II							
Printed		a Laguuvara	, u			MARK DILLON HARP 2378 Certificate Number		Survey	9/18/2024	
		uvarapu@exx	onmobil.con	n			31	-)		
Email A	ddress									
						have been consolidated or a			618.01300	

(618.013 XTO Energy - NM\002 James Ranch Unit\.10 - APACHE DI - EDDY\Wells\-05 - 135H\DWG\135H C-102.dwg

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 TABLE							
	LINE	AZIMUTH	LENGTH					
	L1	012*51'29"	2,387.44					
ſ	L2	269*50'14"	7,639.82					

COORDINATE TABLE											
SHL (I	NAD 83 NME	:)	SHL (I	NAD 27 NME	Ξ)						
Y =	501,055.7	N	Y =	500,995.2	Ν						
X =	697,215.1	ш	X =	656,033.5	Е						
LAT. =	32.376461	°N	LAT. =	32.376338	°N						
LONG. =	103.828412	°W	LONG. =	103.827919	°W						
KOP/FTF	P (NAD 83 N	ME)	KOP/FTF	P (NAD 27 N	ME)						
Y =	503,383.3	Z	Y =	503,322.7	Z						
X =	697,746.4	ш	X =	656,564.8	Е						
LAT. =	32.382852	°N	LAT. =	32.382729	°N						
LONG. =	103.826655	°W	LONG. =	103.826162	°W						
PPP#1	(NAD 83 NM	E)	PPP#1	(NAD 27 NM	E)						
Y =	503,372.9	N	Y =	503,312.2	Ν						
X =	694,069.8	Е	X =	652,888.2	Ε						
LAT. =	32.382870	°N	LAT. =	32.382747	°N						
LONG. =	103.838565	°W	LONG. =	103.838071	°W						
LTP (I	NAD 83 NME	.)	LTP (NAD 27 NME)								
Y =	503,361.7	N		,	N						
X =	690,155.5	Ε	X =	648,974.0	Ε						
LAT. =	32.382889	°N	LAT. =	32.382766	°N						
LONG. =	103.851245	°W	LONG. =	103.850751	°W						
BHL (I	NAD 83 NME	:)	BHL (I	NAD 27 NME	:)						
Y =	503,361.6	N	Y =	503,301.0	Ν						
X =	690,105.5	Ε	X =	648,924.0	Ε						
LAT. =	32.382889	°N	LAT. =	32.382766	°N						
LONG. =	103.851407	°W	LONG. =	103.850913	°W						

<u></u>	<u>LEGEND</u>
	- SECTION LINE
	PROPOSED WELL BORE
:	NEW MEXICO MINERAL LEASE
	- 330' BUFFER
	- ALLOCATION AREA

CORNER COORDINATES (NAD 83 NME)										
A - Y =	504,110.4		A - X =	698,073.4 E						
B - Y =	504,101.4		B - X =	695,403.9 E						
C - Y =	504,092.8	N	C - X =	692,735.3 E						
D - Y =	504,087.5	N	D - X =	690,056.2 E						
E - Y =	502,793.1	N	E - X =	698,078.9 E						
F - Y =	502,783.2	N	F - X =	695,406.0 E						
G - Y =	502,773.6		G - X =	692,733.8 E						
H - Y =	502,768.1	N	H - X =	690,055.0 E						
COR	NER COOR	DINA	ATES (NA	AD 27 NME)						
COR A-Y=	NER COOR 504,049.8		ATES (NA A - X =	AD 27 NME) 656,891.8 E						
		N								
A - Y =	504,049.8	N N	A - X =	656,891.8 E						
A - Y = B - Y =	504,049.8 504,040.7	N N N	A - X = B - X =	656,891.8 E 654,222.4 E						
A - Y = B - Y = C - Y =	504,049.8 504,040.7 504,032.2	N N N	A - X = B - X = C - X =	656,891.8 E 654,222.4 E 651,553.8 E						
A - Y = B - Y = C - Y = D - Y =	504,049.8 504,040.7 504,032.2 504,026.9	Z Z Z Z Z	A - X = B - X = C - X = D - X =	656,891.8 E 654,222.4 E 651,553.8 E 648,874.7 E						
A - Y = B - Y = C - Y = D - Y = E - Y =	504,049.8 504,040.7 504,032.2 504,026.9 502,732.5	Z Z Z Z Z Z Z Z Z	A - X = B - X = C - X = D - X = E - X =	656,891.8 E 654,222.4 E 651,553.8 E 648,874.7 E 656,897.3 E						
A - Y = B - Y = C - Y = D - Y = E - Y = F - Y =	504,049.8 504,040.7 504,032.2 504,026.9 502,732.5 502,722.6	N N N N N	A - X = B - X = C - X = D - X = E - X = F - X =	656,891.8 E 654,222.4 E 651,553.8 E 648,874.7 E 656,897.3 E 654,224.4 E						

RP 618.013002.10-05

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: X10 PERMIAN OPERATING, LLC	OGRID: 3/30/5	Date: 08/19/2024	
II. Type: ⊠ Original □ Amendment due to □ 19.15.27	7.9.D(6)(a) NMAC □ 19.1	5.27.9.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	Anticipated Gas MCF/D	3 yr anticipated decline Gas	Anticipated Produced Water	3 yr anticipated decline
					Oil BBL/D	WC17B	MCF/D	BBL/D	Water
									BBL/D
James Ranch					100		1500		200
Unit Apache 149H	TBD	12 22G 20E	507 FSL,	600		2500		5000	
James Ranch	IBD	13 22S 30E	864 FEL	600	100	2500	1500	3000	200
Unit Apache			477 FSL,		100		1500		200
150H	TBD	13 22S 30E	863 FEL	600		2500		5000	
James Ranch			1524		100		1500		200
Unit Apache			FNL, 829						
142H	TBD	24 22S 30E	FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2228 FSL,						
135H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch			2227 FGI		100		1500		200
Unit Apache 136H	TBD	24 22S 30E	2227 FSL, 971 FEL	600		2500		5000	
James Ranch	ושנו	24 228 30E	9/1 FEL	600	100	2300	1500	3000	200
Unit Apache			2257 FSL,		100		1500		200
137H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch	TDD	21225 30E	J/TTEE	000	100	2300	1500	3000	200
Unit Apache			2167 FSL,						
138H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2258 FSL,						
139H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2288 FSL,						
140H	TBD	24 22S 30E	871 FEL	600	100	2500	4500	5000	200
James Ranch			2107 FGI		100		1500		200
Unit Apache 141H	TBD	24 22S 30E	2197 FSL, 971 FEL	600		2500		5000	
141Π	ממו	24 223 30E	9/I FEL	000		2300		3000	

I D 1	ı	<u> </u>	1	1	100	1	1500		200
James Ranch Unit Apache			419 FSL,		100		1500		200
131H	TBD	24 22S 30E	890 FEL	600		2500		5000	
James Ranch			0,000		100		1500		200
Unit Apache			389 FSL,						
132H	TBD	24 22S 30E	889 FEL	600		2500		5000	
James Ranch Unit Apache			359 FSL,		100		1500		200
133H	TBD	24 22S 30E	889 FEL	600		2500		5000	
James Ranch	122	2.225502	007122		100	2000	1500		200
Unit Apache			329 FSL,						
134H	TBD	24 22S 30E	889 FEL	600		2500		5000	1.00
James Ranch Unit Apache		13 22S 30E	2576 FSL,		200		1400		400
111H	TBD	13 223 30E	867 FEL	2000		5000		7000	
James Ranch			2516 FSL,		200		1400		400
Unit Apache		13 22S 30E	868 FEL						
112H	TBD		OOOTEE	2000	200	5000	1100	7000	100
James Ranch Unit Apache		13 22S 30E	416 FSL,		200		1400		400
113H	TBD	13 223 30E	962 FEL	2000		5000		7000	
James Ranch			350 FNL,		200		1400		400
Unit Apache		24 22S 30E	949 FEL	2000				-000	
114H	TBD) I) I EE	2000	200	5000	1.100	7000	400
James Ranch Unit Apache		24 22S 30E	408 FNL,		200		1400		400
115H	TBD	24 223 30E	848 FEL	2000		5000		7000	
James Ranch			2577 FSL,		100		1300		400
Unit Apache		13 22S 30E	967 FEL						
701H	TBD		JOT I EE	1000	100	2000	1200	4500	100
James Ranch Unit Apache		13 22S 30E	2517 FSL,		100		1300		400
702H	TBD	13 223 30L	968 FEL	1000		2000		4500	
James Ranch			2486 FSL,		100		1300		400
Unit Apache		13 22S 30E	868 FEL						
703H	TBD			1000	100	2000	4300	4500	400
James Ranch Unit Apache		13 22S 30E	2547 FSL,		100		1300		400
704H	TBD	13 223 301	967 FEL	1000		2000		4500	
James Ranch			2487 FSL,		100		1300		400
Unit Apache	TDD	13 22S 30E	968 FEL	1000		2000		4500	
705H James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		13 22S 30E	2456 FSL,		100		1300		400
706H	TBD		869 FEL	1000		2000	<u> </u>	4500	1
James Ranch			320 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	950 FEL	1000		2000		4500	
707H James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		24 22S 30E	380 FNL,		100		1300		400
708H	TBD		949 FEL	1000		2000		4500	
James Ranch			348 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	849 FEL	1000		2000		4500	
709H James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		24 22S 30E	410 FNL,		100		1300		1
710H	TBD		948 FEL	1000		2000		4500	
James Ranch		24.222.55=	318 FNL,		100		1300		400
Unit Apache 711H	TBD	24 22S 30E	850 FEL	1000		2000		4500	
James Ranch	מפנ			1000	100	2000	1000	4500	300
Unit Apache		13 22S 30E	2546 FSL,		100		1000		
801H	TBD		867 FEL	2000		6000		7000	
James Ranch		40.00=	446 FSL,		100		1000		300
Unit Apache	TDD	13 22S 30E	963 FEL	2000		6000		7000	
802H	TBD]	2000		6000		7000	

James Ranch		12 225 205	476 FSL,		100		1000		300
Unit Apache 803H	TBD	13 22S 30E	963 FEL	2000		6000		7000	
James Ranch			378 FNL,		100		1000		300
Unit Apache		24 22S 30E	849 FEL						
804H	TBD		OIFIEE	2000		6000		7000	<u> </u>
James Ranch Unit Apache		13 22S 30E	2457 FSL,		200		1100		500
901H	TBD	13 223 30E	969 FEL	2000		5000		8000	
James Ranch			506 EGI		200		1100		500
Unit Apache		13 22S 30E	506 FSL, 964 FEL						
902H	TBD		JOTTEL	2000		5000		8000	
James Ranch		12 225 205	386 FSL,		200		1100		500
Unit Apache 903H	TBD	13 22S 30E	962 FEL	2000		5000		8000	
James Ranch	TDD			2000	200	3000	1100	8000	500
Unit Apache		24 22S 30E	440 FNL,				1200		
904H	TBD		948 FEL	2000		5000		8000	
James Ranch			2287 FSL,		200		1100		500
Unit Apache	TDD	24 22S 30E	971 FEL	2000		5000		0000	
906H James Ranch	TBD TBD			2000	100	5000	1000	8000	300
Unit Apache	100		909 FEL,		100		1000		300
805H		24 22S 30E	1526 FNL	2000		6000		7000	
James Ranch	TBD				200		1400		400
Unit Apache			909 FEL,						
116H	TDD	24 22S 30E	1556 FNL	2000	200	5000	1100	7000	500
James Ranch Unit Apache	TBD	24 22S 30E	908 FEL,		200		1100		500
905H			1616 FNL	2000		5000		8000	
James Ranch	TBD	24 22S 30E	10101112	2000	100		1000		300
Unit Apache			906 FEL,						
806H			1646 FNL	2000		6000		7000	
James Ranch	TBD	24 22S 30E	007 EEL		200		1400		400
Unit Apache 117H			907 FEL, 1676 FNL	2000		5000		7000	
James Ranch	TBD	24 22S 30E	10/0 TNL	2000	200	3000	1100	7000	500
Unit Apache		2.225502	930 FEL,		200		1100		
907H			389 FSL	2000		5000		8000	
James Ranch	TBD	24 22S 30E			100		1000		300
Unit Apache			929 FEL,	2000		6000		7000	
807H James Ranch	TBD	24 22S 30E	359 FSL	2000	100	6000	1000	7000	200
Unit Apache	IRD	24 228 30E	929 FEL,		100		1000		300
808H			329 FSL	2000		6000		7000	

IV. Central Delivery Point Name: Longhorn Compressor Station [See 19.15.27.9(D)(1) NMAC]

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

Well Name API Spud Date TD Reached Completion **Initial Flow** First Production Date Commencement Date Back Date Date Ranch Unit TBD TBD TBD TBD TBD James Apache 149H **TBD** James Ranch Unit TBD TBD TBD TBD TBD TBD Apache 150H James Ranch Unit TBD TBD TBD TBD TBD TBD Apache 142H TBD TBD TBD TBD TBD Ranch Unit James TBD Apache 135H TBD TBD TBD TBD TBD Ranch Unit James Apache 136H TBD TBD Ranch Unit TBD TBD TBD TBD James TBD Apache 137H

James Ranch Unit Apache 138H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 139H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 140H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 141H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 131H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 132H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 133H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 134H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 111H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 112H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 113H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 114H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 115H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 701H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 702H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 703H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 704H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 705H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 706H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 707H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 708H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 709H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 710H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 711H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 801H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 802H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 803H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 804H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 901H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 902H James Ranch Unit	TBD TBD	TBD	TBD	TBD	TBD	TBD
Apache 903H James Ranch Unit Apache 904H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 906H	TBD	TBD	TBD	TBD	TBD	TBD
11pacific 70011	עמו	1	I	l	I	

James Ranch Apache 805H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 116H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 905H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 806H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 117H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 907H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 807H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 808H	Unit	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:

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.

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

XII. Line Capacity. The natural gas gathering system [☐ will ☐ will not have ca	apacity to gather 100% of the	ne anticipated natural gas
production volume from the well prior to the date of first	t production.		

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

L	 Attac	h (Operato	r's p	lan to	manage	product	ion ii	1 res	ponse	to t	the	increased	line	pressure	;

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

Section 3 - Certifications Effective May 25, 2021

	Effective Iviny 25, 2021										
Operator certifies that, as	fter reasonable inquiry and based on the available information at the time of submittal:										
one hundred percent of	to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering										
hundred percent of the arinto account the current a	Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one nundred 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 □ Operat	or 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;											
alternative beneficial use	an. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential as for the natural gas until a natural gas gathering system is available, including:										
(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;										

(h) fuel cell production; and(i) other alternative beneficial uses approved by the division.

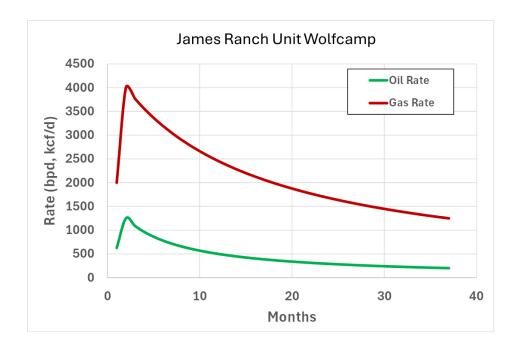
Section 4 - Notices

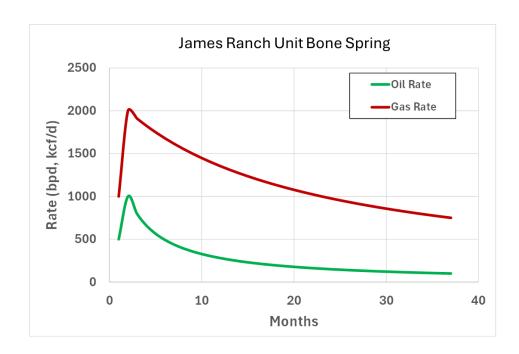
- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production 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: ALPM
Printed Name: Adrian Baker
Title: Environmental and Regulatory Advisor
E-mail Address: adrian.baker@exxonmobil.com
Date: 9/26/24
Phone: 4322363808
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

JRU Decline Curves – Wolfcamp and Bone Spring





VI. Separation Equipment:

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

VII. Operational Practices

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

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

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

VIII. Best Management Practices during Maintenance

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



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

Drilling Plan Data Report

12/23/2024

APD ID: 10400101204

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT APACHE

Well Type: CONVENTIONAL GAS WELL

Submission Date: 09/28/2024

Well Number: 135H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14654784	QUATERNARY	3395	0	0	ALLUVIUM	USEABLE WATER	N
	257.121.11.11.1				/ 1225 (15)	002/1922 ()//// 2//	
14654785	RUSTLER	2892	503	503	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14654786	SALADO	2602	793	793	SALT	POTASH	N
14654787	BASE OF SALT	-253	3648	3648	SALT	POTASH	N
14654788	DELAWARE	-511	3906	3906	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14654789	BRUSHY CANYON	-3254	6649	6649	SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14654790	BONE SPRING	-4390	7785	7785	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14654791	BONE SPRING 1ST	-5310	8705	8705	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14654792	BONE SPRING 2ND	-5896	9291	9291	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14654793	WOLFCAMP	-7669	11064	11064	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14654794	WOLFCAMP	-7795	11190	11190	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14654795	WOLFCAMP	-8077	11472	11472	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14654796	WOLFCAMP	-8495	11890	11890	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14654797	WOLFCAMP	-8879	12274	12274	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

Section 2 - Blowout Prevention

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Pressure Rating (PSI): 10M Rating Depth: 12327

Equipment: Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 10M Triple Ram BOP. XTO will use a Multi-Bowl system which is attached.

Requesting Variance? YES

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

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

Choke Diagram Attachment:

JRU_APACHE_10MCM_20240923044513.pdf

BOP Diagram Attachment:

JRU Apache 5M10M BOP 20240923044627.pdf

Section 3 - Casing

		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
	SURFACE	17.5	13.375	NEW	API	N	0	768	0	768	3395	2627	768	J-55	54.5	BUTT	3.33	3.08	DRY	21.7 2	DRY	21.7 2
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3748	0	3748	3393	-353	3748	J-55	40	BUTT	3.03	1.15	DRY	4.2	DRY	4.2
;	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	11411	0	10782	3393	-7387	11411	L-80	29.7	FJ	2.18	1.38	DRY	1.81	DRY	1.81
	PRODUCTI ON	6.75	5.5	NEW	NON API	Υ	0	20294	0	12327	3393	-8932	20294	P- 110	20	OTHER - TalonHTQ/F reedomHTQ	1.44	1.05	DRY	7.15	DRY	7.15

Casing Attachments

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

JAMES_RANCH_UNIT_APACHE_135H_Csg_20240924113706_20241102072348.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

JAMES_RANCH_UNIT_APACHE_135H_Csg_20240924113706_20241102072235.pdf

Casing ID: 3

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

JAMES_RANCH_UNIT_APACHE_135H_Csg_20240924113706_20241102072250.pdf

Casing Design Assumptions and Worksheet(s):

JAMES_RANCH_UNIT_APACHE_135H_Csg_20240924113706_20241102072302.pdf

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Casing Attachments

Casing ID: 4

String

PRODUCTION

Inspection Document:

Spec Document:

Freedom_semi_premium_5.5_production_casing_20240923123330.pdf Talon_semiflush_5.5_production_casing_20240923123331.pdf

Tapered String Spec:

JAMES_RANCH_UNIT_APACHE_135H_Csg_20240924113706_20241102072320.pdf

Casing Design Assumptions and Worksheet(s):

JAMES_RANCH_UNIT_APACHE_135H_Csg_20240924113706_20241102072331.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	768	340	1.87	12.9	635.8	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	768	300	1.35	14.8	405	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	3748	1550	1.39	12.9	2154. 5	100	Class C	NA
INTERMEDIATE	Tail		0	3748	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		3248	6649	440	1.35	14.8	594	100	Class C	NA
INTERMEDIATE	Tail		6649	1141 1	500	1.33	14.8	665	100	Class C	NA
PRODUCTION	Lead		1091 1	1224 4	50	2.69	11.5	134.5	30	NeoCem	NA
PRODUCTION	Tail		1224 4	2029 4	570	1.51	13.2	860.7	30	VersaCem	NA

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1141 1	2029 4	OIL-BASED MUD	12	12.5							
0	768	WATER-BASED MUD	8.5	9							
768	3748	SALT SATURATED	10.5	11							
3748	1141 1	OTHER : BDE/OBM	10	10.5							

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Section 6 - Test, Logging, Coring

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

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 Operations for Well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8013 Anticipated Surface Pressure: 5301

Anticipated Bottom Hole Temperature(F): 205

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240924121500.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

JAMES_RANCH_UNIT_APACHE_135H_Directional_Drilling_20240924121630.pdf

Other proposed operations facets description:

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

Other proposed operations facets attachment:

JAMES_RANCH_UNIT_APACHE_135H_Cmt_20240924121658.pdf

4_String_Wellbore_diagram_with_pop_valve_and_engineered_weak_point_20240923062341.pdf

Apache_H2S_DiaB_20240923095052.pdf

Apache_H2S_DiaD_20240923095114.pdf

Apache_H2S_DiaE_20240923095145.pdf

Apache_H2S_DiaF_20240923095222.pdf

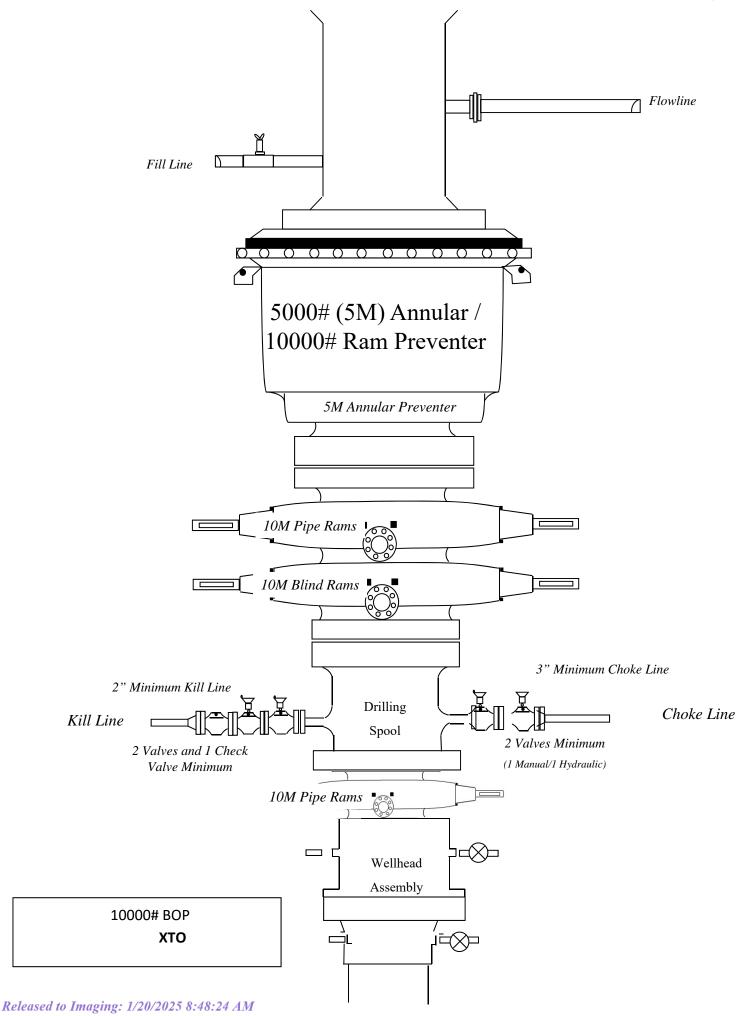
JRU_APACHE_MBS_13.375_9.625_7.625_5.5_4_String_20240923084913.pdf

Apache_GCP_20241102072037.pdf

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Other Variance attachment:

Flex_Hose_Updated_20240923060944.pdf
JRU_Apache__OLCV_20240923060942.pdf
Spudder_Rig_Request_20240923060941.pdf
Wild_Well_Control_Plan_20240923060943.pdf



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

P110 RY USS-FREEDOM HTQ®

11/8/2023 1:08:50 PM

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

Notes

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

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11/29/2021 4·16·04 PM

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

P110 RY USS-TALON HTQ™ RD

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

Notes

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

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Casing Assumptions

Casing Design

Hole Size	MD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 768'	13.375	54.5	J-55	BTC	New	3.08	3.33	21.72
12.25	0' – 3748'	9.625	40	J-55	BTC	New	1.15	3.03	4.20
8.75	0' – 3848'	7.625	29.7	RY P-110	Flush Joint	New	1.90	2.67	1.65
8.75	3848' – 11410.8'	7.625	29.7	HC L-80	Flush Joint	New	1.38	2.18	1.81
6.75	0' – 11310.8'	5.5	20	RY P-110	Semi-Premium/Freedom HTQ	New	1.05	1.57	2.03
6.75	11310.8' - 20294.06'	5.5	20	RY P-110	Semi-Flush/Talon HTQ	New	1.05	1.44	7.15

Well Plan Report - James Ranch Unit Apache 135H

 Measured Depth:
 20294.06 ft

 TVD RKB:
 12327.00 ft

Location

New Mexico East -Cartographic Reference System: NAD 27 Northing: 500995.20 ft Easting: 656033.50 ft **RKB**: 3427.00 ft **Ground Level:** 3395.00 ft North Reference: Grid **Convergence Angle:** 0.27 Deg

Plan Sections

James Ranch Unit Apache 135H

Measured			TVD			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3650.00	0.00	0.00	3650.00	0.00	0.00	0.00	0.00	0.00
5376.82	34.54	12.86	5274.13	492.21	112.36	2.00	0.00	2.00
7806.80	34.54	12.86	7275.87	1835.29	418.94	0.00	0.00	0.00
9533.62	0.00	0.00	8900.00	2327.50	531.30	-2.00	0.00	2.00
12244.42	0.00	0.00	11610.80	2327.50	531.30	0.00	0.00	0.00
13369.42	90.00	269.84	12327.00	2325.46	-184.89	8.00	0.00	8.00
20243.98	90.00	269.84	12327.00	2305.91	-7059.44	0.00	0.00	0.00 LTP 2
20294.06	90.00	269.84	12327.00	2305.76	-7109.51	0.00	0.00	0.00 BHL 32

Position Uncertainty

James Ranch Unit Apache 135H

Measured	TVD Highside	Lateral	Vortical	Magnitudo	Semi-	Semi-	Semi-
Measureu	TVD Highside	Lateral	Vertical	wagiiituue	major	minor	minor 1001

0/24. 10.2070	1 V I								VVCII I	arricport				
Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	XOMR2_OWSG MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.358	0.179	90.000	XOMR2_OWSG MWD+IFR1+MS
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.310	0.000	0.000	0.717	0.538	90.000	XOMR2_OWSG MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.325	0.000	0.000	1.075	0.896	90.000	XOMR2_OWSG MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	0.000	1.434	1.255	90.000	XOMR2_OWSG MWD+IFR1+MS
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.374	0.000	0.000	1.792	1.613	90.000	XOMR2_OWSG MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.407	0.000	0.000	2.151	1.972	90.000	XOMR2_OWSG MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.444	0.000	0.000	2.509	2.330	90.000	XOMR2_OWSG MWD+IFR1+MS
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.486	0.000	0.000	2.868	2.689	90.000	XOMR2_OWSG MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.532	0.000	0.000	3.226	3.047	90.000	XOMR2_OWSG MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.582	0.000	0.000	3.585	3.405	90.000	XOMR2_OWSG MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.635	0.000	0.000	3.943	3.764	90.000	XOMR2_OWSG MWD+IFR1+MS
1200.000	0.000	0.000	1200.000	4.302	0.000	4.122	0.000	2.692	0.000	0.000	4.302	4.122	90.000	XOMR2_OWSG MWD+IFR1+MS
1300.000	0.000	0.000	1300.000	4.660	0.000	4.481	0.000	2.752	0.000	0.000	4.660	4.481	90.000	XOMR2_OWSG MWD+IFR1+MS
1400.000	0.000	0.000	1400.000	5.019	0.000	4.839	0.000	2.814	0.000	0.000	5.019	4.839	90.000	XOMR2_OWSG MWD+IFR1+MS
1500.000	0.000	0.000	1500.000	5.377	0.000	5.198	0.000	2.879	0.000	0.000	5.377	5.198	90.000	XOMR2_OWSG MWD+IFR1+MS
1600.000	0.000	0.000	1600.000	5.736	0.000	5.556	0.000	2.947	0.000	0.000	5.736	5.556	90.000	XOMR2_OWSG MWD+IFR1+MS
1700.000	0.000	0.000	1700.000	6.094	0.000	5.915	0.000	3.017	0.000	0.000	6.094	5.915	90.000	XOMR2_OWSG MWD+IFR1+MS
1800.000	0.000	0.000	1800.000	6.452	0.000	6.273	0.000	3.088	0.000	0.000	6.452	6.273	90.000	XOMR2_OWSG MWD+IFR1+MS

1900.000	0.000	0.000	1900.000	6.811	0.000	6.632 0.000	3.162 0.000	0.000	6.811	6.632	90.000 XOMR2_OWSG MWD+IFR1+MS
2000.000	0.000	0.000	2000.000	7.169	0.000	6.990 0.000	3.237 0.000	0.000	7.169	6.990	90.000 XOMR2_OWSG MWD+IFR1+MS
2100.000	0.000	0.000	2100.000	7.528	0.000	7.349 0.000	3.315 0.000	0.000	7.528	7.349	90.000 XOMR2_OWSG MWD+IFR1+MS
2200.000	0.000	0.000	2200.000	7.886	0.000	7.707 0.000	3.393 0.000	0.000	7.886	7.707	90.000 XOMR2_OWSG MWD+IFR1+MS
2300.000	0.000	0.000	2300.000	8.245	0.000	8.066 0.000	3.474 0.000	0.000	8.245	8.066	90.000 XOMR2_OWSG MWD+IFR1+MS
2400.000	0.000	0.000	2400.000	8.603	0.000	8.424 0.000	3.555 0.000	0.000	8.603	8.424	90.000 XOMR2_OWSG MWD+IFR1+MS
2500.000	0.000	0.000	2500.000	8.962	0.000	8.783 0.000	3.639 0.000	0.000	8.962	8.783	90.000 XOMR2_OWSG MWD+IFR1+MS
2600.000	0.000	0.000	2600.000	9.320	0.000	9.141 0.000	3.723 0.000	0.000	9.320	9.141	90.000 XOMR2_OWSG MWD+IFR1+MS
2700.000	0.000	0.000	2700.000	9.679	0.000	9.499 0.000	3.809 0.000	0.000	9.679	9.499	90.000 XOMR2_OWSG MWD+IFR1+MS
2800.000	0.000	0.000	2800.000	10.037	0.000	9.858 0.000	3.896 0.000	0.000	10.037	9.858	90.000 XOMR2_OWSG MWD+IFR1+MS
2900.000	0.000	0.000	2900.000	10.396	0.000	10.216 0.000	3.985 0.000	0.000	10.396	10.216	90.000 XOMR2_OWSG MWD+IFR1+MS
3000.000	0.000	0.000	3000.000	10.754	0.000	10.575 0.000	4.075 0.000	0.000	10.754	10.575	90.000 XOMR2_OWSG MWD+IFR1+MS
3100.000	0.000	0.000	3100.000	11.113	0.000	10.933 0.000	4.166 0.000	0.000	11.113	10.933	90.000 XOMR2_OWSG MWD+IFR1+MS
3200.000	0.000	0.000	3200.000	11.471	0.000	11.292 0.000	4.258 0.000	0.000	11.471	11.292	90.000 XOMR2_OWSG MWD+IFR1+MS
3300.000	0.000	0.000	3300.000	11.830	0.000	11.650 0.000	4.352 0.000	0.000	11.830	11.650	90.000 XOMR2_OWSG MWD+IFR1+MS
3400.000	0.000	0.000	3400.000	12.188	0.000	12.009 0.000	4.447 0.000	0.000	12.188	12.009	90.000 XOMR2_OWSG MWD+IFR1+MS
3500.000	0.000	0.000	3500.000	12.547	0.000	12.367 0.000	4.543 0.000	0.000	12.547	12.367	90.000 XOMR2_OWSG MWD+IFR1+MS
3600.000	0.000	0.000	3600.000	12.905	0.000	12.726 0.000	4.641 0.000	0.000	12.905	12.726	90.000 XOMR2_OWSG MWD+IFR1+MS
3650.000	0.000	0.000	3650.000	13.084	0.000	12.905 0.000	4.691 0.000	0.000	13.084	12.905	90.000 XOMR2_OWSG MWD+IFR1+MS
3700.000	1.000	12.859	3699.997	13.253	0.000	13.093 0.000	4.740 0.000	0.000	13.263	13.084	90.006 XOMR2_OWSG MWD+IFR1+MS

3800.000	3.000	12.859	3799.931	13.596	0.000	13.450 0.000	4.840 0.000	0.000	13.621	13.441	90.039 XOMR2_OWSG MWD+IFR1+MS
3900.000	5.000	12.859	3899.683	13.924	0.000	13.805 0.000	4.940 0.000	0.000	13.979	13.796	90.088 XOMR2_OWSG MWD+IFR1+MS
4000.000	7.000	12.859	3999.130	14.236	0.000	14.159 0.000	5.040 0.000	0.000	14.335	14.149	90.115 XOMR2_OWSG MWD+IFR1+MS
4100.000	9.000	12.859	4098.152	14.532	0.000	14.511 0.000	5.141 0.000	0.000	14.689	14.501	90.097 XOMR2_OWSG MWD+IFR1+MS
4200.000	11.000	12.859	4196.628	14.811	0.000	14.861 0.000	5.242 0.000	0.000	15.042	14.851	90.011 XOMR2_OWSG MWD+IFR1+MS
4300.000	13.000	12.859	4294.437	15.074	0.000	15.210 0.000	5.345 0.000	0.000	15.392	15.200	89.835 XOMR2_OWSG MWD+IFR1+MS
4400.000	15.000	12.859	4391.462	15.320	0.000	15.558 0.000	5.450 0.000	0.000	15.741	15.547	89.548 XOMR2_OWSG MWD+IFR1+MS
4500.000	17.000	12.859	4487.583	15.550	0.000	15.905 0.000	5.557 0.000	0.000	16.086	15.894	89.119 XOMR2_OWSG MWD+IFR1+MS
4600.000	19.000	12.859	4582.684	15.764	0.000	16.251 0.000	5.667 0.000	0.000	16.429	16.239	88.510 XOMR2_OWSG MWD+IFR1+MS
4700.000	21.000	12.859	4676.649	15.962	0.000	16.597 0.000	5.782 0.000	0.000	16.770	16.584	87.667 XOMR2_OWSG MWD+IFR1+MS
4800.000	23.000	12.859	4769.362	16.145	0.000	16.943 0.000	5.901 0.000	0.000	17.108	16.929	86.505 XOMR2_OWSG MWD+IFR1+MS
4900.000	25.000	12.859	4860.712	16.314	0.000	17.290 0.000	6.027 0.000	0.000	17.444	17.274	84.896 XOMR2_OWSG MWD+IFR1+MS
5000.000	27.000	12.859	4950.587	16.468	0.000	17.638 0.000	6.161 0.000	0.000	17.778	17.619	82.631 XOMR2_OWSG MWD+IFR1+MS
5100.000	29.000	12.859	5038.877	16.610	0.000	17.987 0.000	6.304 0.000	0.000	18.110	17.964	79.369 XOMR2_OWSG MWD+IFR1+MS
5200.000	31.000	12.859	5125.475	16.739	0.000	18.339 0.000	6.457 0.000	0.000	18.441	18.309	74.568 XOMR2_OWSG MWD+IFR1+MS
5300.000	33.000	12.859	5210.276	16.857	0.000	18.693 0.000	6.623 0.000	0.000	18.773	18.653	67.525 XOMR2_OWSG MWD+IFR1+MS
5376.819	34.536	12.859	5274.133	16.941	0.000	18.967 0.000	6.759 0.000	0.000	19.031	18.914	60.615 XOMR2_OWSG MWD+IFR1+MS
5400.000	34.536	12.859	5293.229	17.030	0.000	19.049 0.000	6.800 0.000	0.000	19.109	18.992	58.545 XOMR2_OWSG MWD+IFR1+MS
5500.000	34.536	12.859	5375.605	17.422	0.000	19.412 0.000	7.004 0.000	0.000	19.455	19.326	47.910 XOMR2_OWSG MWD+IFR1+MS
5600.000	34.536	12.859	5457.982	17.821	0.000	19.781 0.000	7.217 0.000	0.000	19.813	19.658	39.741 XOMR2_OWSG MWD+IFR1+MS

5700.000	34.536	12.859	5540.359	18.228	0.000	20.156	0.000	7.440	0.000	0.000	20.181	19.991	34.127	XOMR2_OWSG MWD+IFR1+MS
5800.000	34.536	12.859	5622.735	18.641	0.000	20.537	0.000	7.670	0.000	0.000	20.558	20.327	30.305	XOMR2_OWSG MWD+IFR1+MS
5900.000	34.536	12.859	5705.112	19.060	0.000	20.923 (0.000	7.909	0.000	0.000	20.941	20.665	27.621	XOMR2_OWSG MWD+IFR1+MS
6000.000	34.536	12.859	5787.489	19.485	0.000	21.314 (0.000	8.154	0.000	0.000	21.329	21.008	25.665	XOMR2_OWSG MWD+IFR1+MS
6100.000	34.536	12.859	5869.865	19.915	0.000	21.709 (0.000	8.405	0.000	0.000	21.724	21.354	24.187	XOMR2_OWSG MWD+IFR1+MS
6200.000	34.536	12.859	5952.242	20.351	0.000	22.110	0.000	8.663	0.000	0.000	22.123	21.703	23.038	XOMR2_OWSG MWD+IFR1+MS
6300.000	34.536	12.859	6034.619	20.791	0.000	22.514 (0.000	8.926	0.000	0.000	22.526	22.057	22.120	XOMR2_OWSG MWD+IFR1+MS
6400.000	34.536	12.859	6116.995	21.236	0.000	22.922 (0.000	9.193	0.000	0.000	22.934	22.413	21.373	XOMR2_OWSG MWD+IFR1+MS
6500.000	34.536	12.859	6199.372	21.685	0.000	23.334 (0.000	9.466	0.000	0.000	23.345	22.773	20.752	XOMR2_OWSG MWD+IFR1+MS
6600.000	34.536	12.859	6281.748	22.138	0.000	23.750	0.000	9.743	0.000	0.000	23.760	23.137	20.230	XOMR2_OWSG MWD+IFR1+MS
6700.000	34.536	12.859	6364.125	22.594	0.000	24.169 (0.000	10.024	0.000	0.000	24.179	23.503	19.784	XOMR2_OWSG MWD+IFR1+MS
6800.000	34.536	12.859	6446.502	23.055	0.000	24.592 (0.000	10.309	0.000	0.000	24.601	23.872	19.399	XOMR2_OWSG MWD+IFR1+MS
6900.000	34.536	12.859	6528.878	23.518	0.000	25.017	0.000	10.598	0.000	0.000	25.026	24.245	19.063	XOMR2_OWSG MWD+IFR1+MS
7000.000	34.536	12.859	6611.255	23.984	0.000	25.446	0.000	10.889	0.000	0.000	25.455	24.620	18.769	XOMR2_OWSG MWD+IFR1+MS
7100.000	34.536	12.859	6693.632	24.454	0.000	25.877 (0.000	11.184	0.000	0.000	25.886	24.998	18.508	XOMR2_OWSG MWD+IFR1+MS
7200.000	34.536	12.859	6776.008	24.926	0.000	26.311 (0.000	11.482	0.000	0.000	26.319	25.378	18.275	XOMR2_OWSG MWD+IFR1+MS
7300.000	34.536	12.859	6858.385	25.401	0.000	26.747	0.000	11.783	0.000	0.000	26.755	25.761	18.066	XOMR2_OWSG MWD+IFR1+MS
7400.000	34.536	12.859	6940.762	25.878	0.000	27.186	0.000	12.086	0.000	0.000	27.194	26.146	17.878	XOMR2_OWSG MWD+IFR1+MS
7500.000	34.536	12.859	7023.138	26.358	0.000	27.627 (0.000	12.392	0.000	0.000	27.635	26.533	17.707	XOMR2_OWSG MWD+IFR1+MS
7600.000	34.536	12.859	7105.515	26.839	0.000	28.070 (0.000	12.700	0.000	0.000	28.078	26.923	17.552	XOMR2_OWSG MWD+IFR1+MS

7700.000	34.536	12.859	7187.891	27.323	0.000	28.516 0.000	13.010 0	0.000	0.000	28.523	27.315	17.410	XOMR2_OWSG MWD+IFR1+MS
7806.797	34.536	12.859	7275.867	27.842	0.000	28.994 0.000	13.344 0	0.000	0.000	29.001	27.736	17.271	XOMR2_OWSG MWD+IFR1+MS
7900.000	32.672	12.859	7353.491	28.516	0.000	29.410 0.000	13.635 0	0.000	0.000	29.418	28.105	17.167	XOMR2_OWSG MWD+IFR1+MS
8000.000	30.672	12.859	7438.593	29.204	0.000	29.855 0.000	13.937 0	0.000	0.000	29.862	28.506	17.082	XOMR2_OWSG MWD+IFR1+MS
8100.000	28.672	12.859	7525.475	29.854	0.000	30.296 0.000	14.226 0	0.000	0.000	30.303	28.912	17.023	XOMR2_OWSG MWD+IFR1+MS
8200.000	26.672	12.859	7614.033	30.464	0.000	30.731 0.000	14.502 0	0.000	0.000	30.739	29.320	16.986	XOMR2_OWSG MWD+IFR1+MS
8300.000	24.672	12.859	7704.157	31.033	0.000	31.162 0.000	14.766 0	0.000	0.000	31.169	29.729	16.966	XOMR2_OWSG MWD+IFR1+MS
8400.000	22.672	12.859	7795.738	31.559	0.000	31.585 0.000	15.017 0	0.000	0.000	31.593	30.139	16.962	XOMR2_OWSG MWD+IFR1+MS
8500.000	20.672	12.859	7888.664	32.043	0.000	32.002 0.000	15.256 0	0.000	0.000	32.009	30.546	16.969	XOMR2_OWSG MWD+IFR1+MS
8600.000	18.672	12.859	7982.823	32.482	0.000	32.410 0.000	15.483 0	0.000	0.000	32.418	30.950	16.985	XOMR2_OWSG MWD+IFR1+MS
8700.000	16.672	12.859	8078.099	32.876	0.000	32.811 0.000	15.700 0	0.000	0.000	32.818	31.350	17.008	XOMR2_OWSG MWD+IFR1+MS
8800.000	14.672	12.859	8174.376	33.224	0.000	33.202 0.000	15.907 0	0.000	0.000	33.209	31.743	17.036	XOMR2_OWSG MWD+IFR1+MS
8900.000	12.672	12.859	8271.538	33.527	0.000	33.584 0.000	16.105 0	0.000	0.000	33.591	32.130	17.067	XOMR2_OWSG MWD+IFR1+MS
9000.000	10.672	12.859	8369.465	33.782	0.000	33.956 0.000	16.294 0	0.000	0.000	33.964	32.508	17.099	XOMR2_OWSG MWD+IFR1+MS
9100.000	8.672	12.859	8468.038	33.991	0.000	34.318 0.000	16.476 0	0.000	0.000	34.326	32.877	17.130	XOMR2_OWSG MWD+IFR1+MS
9200.000	6.672	12.859	8567.138	34.153	0.000	34.669 0.000	16.652 0	0.000	0.000	34.677	33.235	17.157	XOMR2_OWSG MWD+IFR1+MS
9300.000	4.672	12.859	8666.643	34.268	0.000	35.010 0.000	16.822 0	0.000	0.000	35.018	33.583	17.180	XOMR2_OWSG MWD+IFR1+MS
9400.000	2.672	12.859	8766.433	34.336	0.000	35.341 0.000	16.988 0	0.000	0.000	35.349	33.918	17.196	XOMR2_OWSG MWD+IFR1+MS
9500.000	0.672	12.859	8866.385	34.358	0.000	35.660 0.000	17.150 0	0.000	0.000	35.668	34.242	17.204	XOMR2_OWSG MWD+IFR1+MS
9533.616	0.000	0.000	8900.000	34.475	0.000	35.651 0.000	17.204 0	0.000	0.000	35.773	34.347	17.209	XOMR2_OWSG MWD+IFR1+MS

9600.000	0.000	0.000 8966.384	34.682 0.000	35.857 0.000	17.311 0.000	0.000	35.980	34.555	17.228 XOMR2_OWSG MWD+IFR1+MS
9700.000	0.000	0.000 9066.384	34.996 0.000	36.168 0.000	17.475 0.000	0.000	36.291	34.868	17.257 XOMR2_OWSG MWD+IFR1+MS
9800.000	0.000	0.000 9166.384	35.310 0.000	36.481 0.000	17.642 0.000	0.000	36.604	35.183	17.285 XOMR2_OWSG MWD+IFR1+MS
9900.000	0.000	0.000 9266.384	35.626 0.000	36.794 0.000	17.813 0.000	0.000	36.917	35.498	17.312 XOMR2_OWSG MWD+IFR1+MS
10000.000	0.000	0.000 9366.384	35.942 0.000	37.108 0.000	17.988 0.000	0.000	37.231	35.814	17.340 XOMR2_OWSG MWD+IFR1+MS
10100.000	0.000	0.000 9466.384	36.259 0.000	37.422 0.000	18.166 0.000	0.000	37.546	36.130	17.366 XOMR2_OWSG MWD+IFR1+MS
10200.000	0.000	0.000 9566.384	36.576 0.000	37.738 0.000	18.348 0.000	0.000	37.862	36.448	17.393 XOMR2_OWSG MWD+IFR1+MS
10300.000	0.000	0.000 9666.384	36.895 0.000	38.054 0.000	18.534 0.000	0.000	38.179	36.766	17.419 XOMR2_OWSG MWD+IFR1+MS
10400.000	0.000	0.000 9766.384	37.214 0.000	38.371 0.000	18.723 0.000	0.000	38.496	37.085	17.444 XOMR2_OWSG MWD+IFR1+MS
10500.000	0.000	0.000 9866.384	37.534 0.000	38.689 0.000	18.917 0.000	0.000	38.814	37.405	17.469 XOMR2_OWSG MWD+IFR1+MS
10600.000	0.000	0.000 9966.384	37.855 0.000	39.007 0.000	19.113 0.000	0.000	39.133	37.725	17.494 XOMR2_OWSG MWD+IFR1+MS
10700.000	0.000	0.000 10066.384	38.176 0.000	39.327 0.000	19.314 0.000	0.000	39.452	38.046	17.519 XOMR2_OWSG MWD+IFR1+MS
10800.000	0.000	0.000 10166.384	38.498 0.000	39.646 0.000	19.518 0.000	0.000	39.772	38.368	17.543 XOMR2_OWSG MWD+IFR1+MS
10900.000	0.000	0.000 10266.384	38.820 0.000	39.967 0.000	19.726 0.000	0.000	40.093	38.690	17.567 XOMR2_OWSG MWD+IFR1+MS
11000.000	0.000	0.000 10366.384	39.143 0.000	40.288 0.000	19.938 0.000	0.000	40.414	39.013	17.590 XOMR2_OWSG MWD+IFR1+MS
11100.000	0.000	0.000 10466.384	39.467 0.000	40.610 0.000	20.153 0.000	0.000	40.736	39.337	17.613 XOMR2_OWSG MWD+IFR1+MS
11200.000	0.000	0.000 10566.384	39.792 0.000	40.932 0.000	20.372 0.000	0.000	41.058	39.661	17.636 XOMR2_OWSG MWD+JFR1+MS
11300.000	0.000	0.000 10666.384	40.117 0.000	41.255 0.000	20.595 0.000	0.000	41.382	39.986	17.659 XOMR2_OWSG MWD+IFR1+MS
11400.000	0.000	0.000 10766.384	40.442 0.000	41.579 0.000	20.822 0.000	0.000	41.705	40.311	17.681 XOMR2_OWSG MWD+IFR1+MS
11500.000	0.000	0.000 10866.384	40.768 0.000	41.903 0.000	21.053 0.000	0.000	42.030	40.637	17.703 XOMR2_OWSG MWD+IFR1+MS

11600.000	0.000	0.000	10966.384	41.095	0.000	42.227	0.000	21.287	0.000	0.000	42.354	40.964	17.725	XOMR2_OWSG MWD+IFR1+MS
11700.000	0.000	0.000	11066.384	41.422	0.000	42.553	0.000	21.525	0.000	0.000	42.680	41.291	17.746	XOMR2_OWSG MWD+IFR1+MS
11800.000	0.000	0.000	11166.384	41.750	0.000	42.878	0.000	21.766	0.000	0.000	43.006	41.618	17.767	XOMR2_OWSG MWD+IFR1+MS
11900.000	0.000	0.000	11266.384	42.078	0.000	43.205	0.000	22.012	0.000	0.000	43.332	41.946	17.788	XOMR2_OWSG MWD+IFR1+MS
12000.000	0.000	0.000	11366.384	42.406	0.000	43.531	0.000	22.261	0.000	0.000	43.659	42.275	17.809	XOMR2_OWSG MWD+IFR1+MS
12100.000	0.000	0.000	11466.384	42.735	0.000	43.859	0.000	22.514	0.000	0.000	43.986	42.604	17.829	XOMR2_OWSG MWD+IFR1+MS
12200.000	0.000	0.000	11566.384	43.065	0.000	44.186	0.000	22.771	0.000	0.000	44.314	42.933	17.849	XOMR2_OWSG MWD+IFR1+MS
12244.416	0.000	0.000	11610.800	43.212	0.000	44.332	0.000	22.886	0.000	0.000	44.460	43.080	17.858	XOMR2_OWSG MWD+IFR1+MS
12300.000	4.447	269.837	11666.329	44.272	-0.000	43.392	0.000	23.031	0.000	0.000	44.638	43.257	17.926	XOMR2_OWSG MWD+IFR1+MS
12400.000	12.447	269.837	11765.163	43.670	-0.000	43.698	0.000	23.293	0.000	0.000	44.945	43.557	18.307	XOMR2_OWSG MWD+IFR1+MS
12500.000	20.447	269.837	11860.994	42.471	-0.000	43.995	0.000	23.560	0.000	0.000	45.232	43.843	18.998	XOMR2_OWSG MWD+IFR1+MS
12600.000	28.447	269.837	11951.955	40.734	-0.000	44.279	0.000	23.836	0.000	0.000	45.493	44.112	19.993	XOMR2_OWSG MWD+IFR1+MS
12700.000	36.447	269.837	12036.275	38.552	-0.000	44.546	0.000	24.124	0.000	0.000	45.720	44.363	21.258	XOMR2_OWSG MWD+IFR1+MS
12800.000	44.447	269.837	12112.314	36.050	-0.000	44.796	0.000	24.428	0.000	0.000	45.909	44.594	22.749	XOMR2_OWSG MWD+IFR1+MS
12900.000	52.447	269.837	12178.592	33.399	-0.000	45.028	0.000	24.750	0.000	0.000	46.057	44.809	24.436	XOMR2_OWSG MWD+IFR1+MS
13000.000	60.447	269.837	12233.818	30.818	-0.000	45.242	0.000	25.092	0.000	0.000	46.164	45.011	26.306	XOMR2_OWSG MWD+IFR1+MS
13100.000	68.447	269.837	12276.918	28.580	-0.000	45.438	0.000	25.454	0.000	0.000	46.230	45.201	28.371	XOMR2_OWSG MWD+IFR1+MS
13200.000	76.447	269.837	12307.053	26.994	-0.000	45.616	0.000	25.835	0.000	0.000	46.258	45.385	30.667	XOMR2_OWSG MWD+IFR1+MS
13300.000	84.447	269.837	12323.636	26.334	-0.000	45.774	0.000	26.229	0.000	0.000	46.252	45.565	33.260	XOMR2_OWSG MWD+IFR1+MS
13369.416	90.000	269.837	12326.997	26.507	0.000	45.871	0.000	26.507	0.000	0.000	46.231	45.687	35.263	XOMR2_OWSG MWD+IFR1+MS

13400.000	90.000	269.837	12326.997	26.631	0.000	45.911	0.000	26.631	0.000	0.000	46.219	45.741	36.392	XOMR2_OWSG MWD+IFR1+MS
13500.000	90.000	269.837	12326.997	27.047	0.000	46.065	0.000	27.047	0.000	0.000	46.196	45.922	45.953	XOMR2_OWSG MWD+IFR1+MS
13600.000	90.000	269.837	12326.997	27.480	0.000	46.245	0.000	27.480	0.000	0.000	46.255	46.048	76.934	XOMR2_OWSG MWD+IFR1+MS
13700.000	90.000	269.837	12326.997	27.927	0.000	46.451	0.000	27.927	0.000	0.000	46.457	46.058	96.556	XOMR2_OWSG MWD+IFR1+MS
13800.000	90.000	269.837	12326.997	28.389	0.000	46.684	0.000	28.389	0.000	0.000	46.713	46.040	101.871	XOMR2_OWSG MWD+IFR1+MS
13900.000	90.000	269.837	12326.997	28.866	0.000	46.942	0.000	28.866	0.000	0.000	46.997	46.019	103.699	XOMR2_OWSG MWD+IFR1+MS
14000.000	90.000	269.837	12326.997	29.355	0.000	47.225	0.000	29.355	0.000	0.000	47.306	46.000	104.366	XOMR2_OWSG MWD+IFR1+MS
14100.000	90.000	269.837	12326.997	29.857	0.000	47.533	0.000	29.857	0.000	0.000	47.638	45.983	104.537	XOMR2_OWSG MWD+IFR1+MS
14200.000	90.000	269.837	12326.997	30.371	0.000	47.865	0.000	30.371	0.000	0.000	47.992	45.968	104.465	XOMR2_OWSG MWD+IFR1+MS
14300.000	90.000	269.837	12326.997	30.897	0.000	48.221	0.000	30.897	0.000	0.000	48.368	45.955	104.265	XOMR2_OWSG MWD+IFR1+MS
14400.000	90.000	269.837	12326.997	31.433	0.000	48.601	0.000	31.433	0.000	0.000	48.765	45.945	103.996	XOMR2_OWSG MWD+IFR1+MS
14500.000	90.000	269.837	12326.997	31.980	0.000	49.003	0.000	31.980	0.000	0.000	49.183	45.937	103.690	XOMR2_OWSG MWD+IFR1+MS
14600.000	90.000	269.837	12326.997	32.536	0.000	49.427	0.000	32.536	0.000	0.000	49.622	45.931	103.365	XOMR2_OWSG MWD+IFR1+MS
14700.000	90.000	269.837	12326.997	33.101	0.000	49.873	0.000	33.101	0.000	0.000	50.081	45.927	103.034	XOMR2_OWSG MWD+IFR1+MS
14800.000	90.000	269.837	12326.997	33.676	0.000	50.340	0.000	33.676	0.000	0.000	50.559	45.924	102.703	XOMR2_OWSG MWD+IFR1+MS
14900.000	90.000	269.837	12326.997	34.258	0.000	50.827	0.000	34.258	0.000	0.000	51.057	45.923	102.376	XOMR2_OWSG MWD+IFR1+MS
15000.000	90.000	269.837	12326.997	34.849	0.000	51.334	0.000	34.849	0.000	0.000	51.574	45.924	102.057	XOMR2_OWSG MWD+IFR1+MS
15100.000	90.000	269.837	12326.997	35.447	0.000	51.861	0.000	35.447	0.000	0.000	52.109	45.926	101.747	XOMR2_OWSG MWD+IFR1+MS
15200.000	90.000	269.837	12326.997	36.052	0.000	52.406	0.000	36.052	0.000	0.000	52.662	45.930	101.447	XOMR2_OWSG MWD+IFR1+MS
15300.000	90.000	269.837	12326.997	36.665	0.000	52.969	0.000	36.665	0.000	0.000	53.232	45.935	101.157	XOMR2_OWSG MWD+IFR1+MS

15400.000	90.000	269.837	12326.997	37.283	0.000	53.550 0.0	000 3	37.283	0.000	0.000	53.818	45.941	100.878	XOMR2_OWSG MWD+IFR1+MS
15500.000	90.000	269.837	12326.997	37.908	0.000	54.148 0.0	000 3	37.908	0.000	0.000	54.421	45.949	100.610	XOMR2_OWSG MWD+IFR1+MS
15600.000	90.000	269.837	12326.997	38.538	0.000	54.762 0.0	000 3	38.538	0.000	0.000	55.040	45.958	100.351	XOMR2_OWSG MWD+IFR1+MS
15700.000	90.000	269.837	12326.997	39.175	0.000	55.392 0.0	000 3	39.175	0.000	0.000	55.674	45.968	100.103	XOMR2_OWSG MWD+IFR1+MS
15800.000	90.000	269.837	12326.997	39.816	0.000	56.038 0.0	000 3	39.816	0.000	0.000	56.323	45.979	99.865	XOMR2_OWSG MWD+IFR1+MS
15900.000	90.000	269.837	12326.997	40.463	0.000	56.698 0.0	000 4	10.463	0.000	0.000	56.986	45.991	99.636	XOMR2_OWSG MWD+IFR1+MS
16000.000	90.000	269.837	12326.997	41.114	0.000	57.373 0.0	000 4	41.114	0.000	0.000	57.664	46.005	99.416	XOMR2_OWSG MWD+IFR1+MS
16100.000	90.000	269.837	12326.997	41.770	0.000	58.061 0.0	000 4	11.770	0.000	0.000	58.354	46.019	99.205	XOMR2_OWSG MWD+IFR1+MS
16200.000	90.000	269.837	12326.997	42.430	0.000	58.763 0.0	000 4	12.430	0.000	0.000	59.057	46.035	99.002	XOMR2_OWSG MWD+IFR1+MS
16300.000	90.000	269.837	12326.997	43.095	0.000	59.477 0.0	000 4	13.095	0.000	0.000	59.773	46.051	98.806	XOMR2_OWSG MWD+IFR1+MS
16400.000	90.000	269.837	12326.997	43.763	0.000	60.204 0.0	000 4	13.763	0.000	0.000	60.501	46.068	98.619	XOMR2_OWSG MWD+IFR1+MS
16500.000	90.000	269.837	12326.997	44.435	0.000	60.943 0.0	000 4	14.435	0.000	0.000	61.241	46.086	98.438	XOMR2_OWSG MWD+IFR1+MS
16600.000	90.000	269.837	12326.997	45.111	0.000	61.694 0.0	000 4	45.111	0.000	0.000	61.992	46.106	98.264	XOMR2_OWSG MWD+IFR1+MS
16700.000	90.000	269.837	12326.997	45.791	0.000	62.455 0.0	000 4	15.791	0.000	0.000	62.754	46.126	98.096	XOMR2_OWSG MWD+IFR1+MS
16800.000	90.000	269.837	12326.997	46.473	0.000	63.228 0.0	000 4	16.473	0.000	0.000	63.526	46.147	97.935	XOMR2_OWSG MWD+IFR1+MS
16900.000	90.000	269.837	12326.997	47.159	0.000	64.010 0.0	000 4	17.159	0.000	0.000	64.309	46.168	97.779	XOMR2_OWSG MWD+IFR1+MS
17000.000	90.000	269.837	12326.997	47.848	0.000	64.803 0.0	000 4	17.848	0.000	0.000	65.101	46.191	97.629	XOMR2_OWSG MWD+IFR1+MS
17100.000	90.000	269.837	12326.997	48.540	0.000	65.605 0.0	000 4	18.540	0.000	0.000	65.902	46.215	97.484	XOMR2_OWSG MWD+IFR1+MS
17200.000	90.000	269.837	12326.997	49.234	0.000	66.417 0.0	000 4	19.234	0.000	0.000	66.713	46.239	97.345	XOMR2_OWSG MWD+IFR1+MS
17300.000	90.000	269.837	12326.997	49.932	0.000	67.237 0.0	000 4	19.932	0.000	0.000	67.533	46.264	97.210	XOMR2_OWSG MWD+IFR1+MS

17400.000	90.000	269.837	12326.997	50.632	0.000	68.066	0.000	50.632	0.000	0.000	68.360	46.290	97.079	XOMR2_OWSG MWD+IFR1+MS
17500.000	90.000	269.837	12326.997	51.334	0.000	68.903	0.000	51.334	0.000	0.000	69.197	46.317	96.953	XOMR2_OWSG MWD+IFR1+MS
17600.000	90.000	269.837	12326.997	52.039	0.000	69.748	0.000	52.039	0.000	0.000	70.041	46.345	96.831	XOMR2_OWSG MWD+IFR1+MS
17700.000	90.000	269.837	12326.997	52.745	0.000	70.601	0.000	52.745	0.000	0.000	70.892	46.373	96.713	XOMR2_OWSG MWD+IFR1+MS
17800.000	90.000	269.837	12326.997	53.455	0.000	71.461	0.000	53.455	0.000	0.000	71.751	46.402	96.599	XOMR2_OWSG MWD+IFR1+MS
17900.000	90.000	269.837	12326.997	54.166	0.000	72.328	0.000	54.166	0.000	0.000	72.617	46.432	96.488	XOMR2_OWSG MWD+IFR1+MS
18000.000	90.000	269.837	12326.997	54.879	0.000	73.203	0.000	54.879	0.000	0.000	73.490	46.463	96.381	XOMR2_OWSG MWD+IFR1+MS
18100.000	90.000	269.837	12326.997	55.594	0.000	74.084	0.000	55.594	0.000	0.000	74.369	46.494	96.277	XOMR2_OWSG MWD+IFR1+MS
18200.000	90.000	269.837	12326.997	56.311	0.000	74.971	0.000	56.311	0.000	0.000	75.255	46.526	96.176	XOMR2_OWSG MWD+IFR1+MS
18300.000	90.000	269.837	12326.997	57.030	0.000	75.865	0.000	57.030	0.000	0.000	76.147	46.559	96.079	XOMR2_OWSG MWD+IFR1+MS
18400.000	90.000	269.837	12326.997	57.750	0.000	76.764	0.000	57.750	0.000	0.000	77.045	46.593	95.984	XOMR2_OWSG MWD+IFR1+MS
18500.000	90.000	269.837	12326.997	58.472	0.000	77.669	0.000	58.472	0.000	0.000	77.948	46.627	95.892	XOMR2_OWSG MWD+IFR1+MS
18600.000	90.000	269.837	12326.997	59.196	0.000	78.580	0.000	59.196	0.000	0.000	78.857	46.662	95.802	XOMR2_OWSG MWD+IFR1+MS
18700.000	90.000	269.837	12326.997	59.921	0.000	79.496	0.000	59.921	0.000	0.000	79.772	46.698	95.715	XOMR2_OWSG MWD+IFR1+MS
18800.000	90.000	269.837	12326.997	60.648	0.000	80.418	0.000	60.648	0.000	0.000	80.691	46.735	95.631	XOMR2_OWSG MWD+IFR1+MS
18900.000	90.000	269.837	12326.997	61.376	0.000	81.344	0.000	61.376	0.000	0.000	81.616	46.772	95.548	XOMR2_OWSG MWD+IFR1+MS
19000.000	90.000	269.837	12326.997	62.106	0.000	82.275	0.000	62.106	0.000	0.000	82.546	46.810	95.469	XOMR2_OWSG MWD+IFR1+MS
19100.000	90.000	269.837	12326.997	62.837	0.000	83.211	0.000	62.837	0.000	0.000	83.480	46.849	95.391	XOMR2_OWSG MWD+IFR1+MS
19200.000	90.000	269.837	12326.997	63.569	0.000	84.152	0.000	63.569	0.000	0.000	84.418	46.888	95.315	XOMR2_OWSG MWD+IFR1+MS
19300.000	90.000	269.837	12326.997	64.302	0.000	85.097	0.000	64.302	0.000	0.000	85.361	46.928	95.241	XOMR2_OWSG MWD+IFR1+MS

19400.000	90.000	269.837	12326.997	65.037	0.000	86.046	0.000	65.037	0.000	0.000	86.309	46.968	95.170	XOMR2_OWSG MWD+IFR1+MS
19500.000	90.000	269.837	12326.997	65.773	0.000	86.999	0.000	65.773	0.000	0.000	87.260	47.010	95.100	XOMR2_OWSG MWD+IFR1+MS
19600.000	90.000	269.837	12326.997	66.509	0.000	87.956	0.000	66.509	0.000	0.000	88.215	47.052	95.032	XOMR2_OWSG MWD+IFR1+MS
19700.000	90.000	269.837	12326.997	67.247	0.000	88.917	0.000	67.247	0.000	0.000	89.174	47.095	94.965	XOMR2_OWSG MWD+IFR1+MS
19800.000	90.000	269.837	12326.997	67.986	0.000	89.882	0.000	67.986	0.000	0.000	90.137	47.138	94.900	XOMR2_OWSG MWD+IFR1+MS
19900.000	90.000	269.837	12326.997	68.727	0.000	90.850	0.000	68.727	0.000	0.000	91.104	47.182	94.837	XOMR2_OWSG MWD+IFR1+MS
20000.000	90.000	269.837	12326.997	69.468	0.000	91.822	0.000	69.468	0.000	0.000	92.074	47.227	94.775	XOMR2_OWSG MWD+IFR1+MS
20100.000	90.000	269.837	12326.997	70.210	0.000	92.797	0.000	70.210	0.000	0.000	93.047	47.272	94.715	XOMR2_OWSG MWD+IFR1+MS
20200.000	90.000	269.837	12326.997	70.952	0.000	93.775	0.000	70.952	0.000	0.000	94.024	47.318	94.657	XOMR2_OWSG MWD+IFR1+MS
20243.984	90.000	269.837	12326.997	71.279	0.000	94.206	0.000	71.279	0.000	0.000	94.454	47.338	94.631	XOMR2_OWSG MWD+IFR1+MS
20294.062	90.000	269.837	12326.997	71.652	0.000	94.698	0.000	71.652	0.000	0.000	94.944	47.362	94.603	XOMR2_OWSG MWD+IFR1+MS

Plan TargetsJames Ranch Unit Apache 135H

	Measured Depth	Grid Northing	Grid Easting	TVD MSL	Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)	
FTP 2	13096.77	503322.70	656564.80	8900.00	CIRCLE
LTP 2	20244.05	503301.10	648974.00	8900.00	CIRCLE
BHL 32	20294.05	503301.00	648924.00	8900.00	CIRCLE

Cement Variance Request

Intermediate Casing

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 Brush Canyon (6649') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to to ~500' inside 1st intermediate csg string. 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.

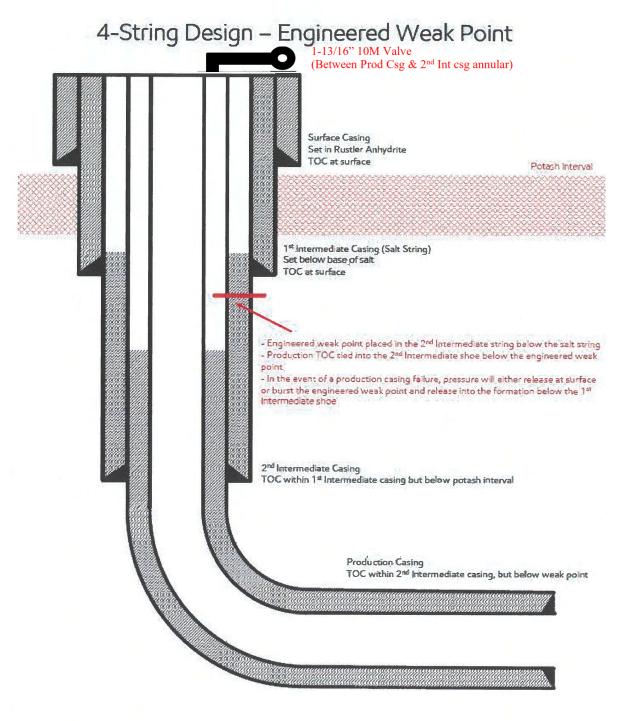
XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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

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 the 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 Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with 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 when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.



[Figure F] 4 String – 2nd Intermediate casing engineered weak point

31592723_v1

Received by OCD: 12/25/2024 8:48:04 PM

Update May 2024:

XTO is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze to be completed within 180days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126
- 4) Production cement to be tied back no less than 500ft inside previous casing shoe

ALL DIMENSIONS APPROXIMA

CACTUS WELLHEAD LLC

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

	XTO ENERGY IN DELAWARE BASI	•
RAWN	VJK	31MAR2
PPRV		

DRAWING NO. SDT-3301

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

t by OCD: 12/23/2020



GATES ENGINEERING & SERVICES NORTH AMERICA

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Houston, TX. 77086

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FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com

WEB: www.gates.com/oilandgas

NEW CHOKE HOSE

INSTAUED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

CUSTOME	R:
---------	----

NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA

CUSTOMER P.O.#:

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

CUSTOMER P/N:

IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION:

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

FLANGES

SALES ORDER #:

529480

QUANTITY:

1

SERIAL #:

74621 H3-012524-1

SIGNATURE: F. CUSTUSE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

H3-15/16





TEST REPORT

CUSTOMER

Company:

Nabors Industries Inc.

TEST OBJECT

Serial number: H3-012524-1

Lot number:

Production description:

Sales order #:

529480

74621/66-1531

Description:

74621/66-1531

Customer reference:

FG1213

Hose ID:

3" 16C CK

Part number:

Fitting 1:

Part number: Description:

TEST INFORMATION

Test pressure hold:

Length difference:

Test procedure: Test pressure:

GTS-04-053 15000.00

psi

sec psi

Work pressure: Work pressure hold: 10000.00

900.00 0.00

3600.00

sec %

Fitting 2: Part number:

Description:

3.0 x 4-1/16 10K

3.0 x 4-1/16 10K

Length difference:

0.00

inch

Length:

45

feet

n /n

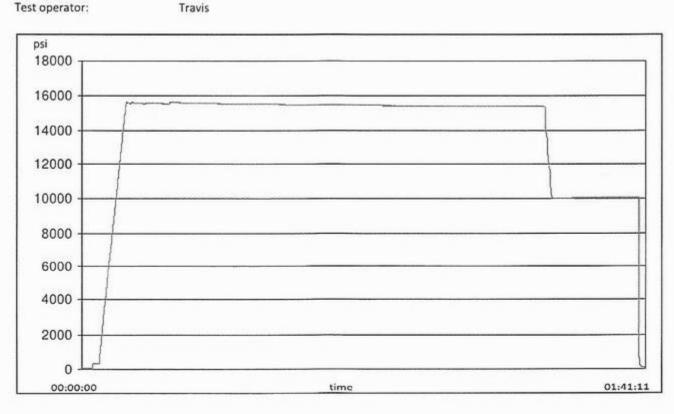
Visual check:

Pressure test result:

Length measurement result:

Travis

PASS





H3-15/16

1/25/2024 11:48:06 AM

TEST REPORT

GAUGE TRACEABILITY

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

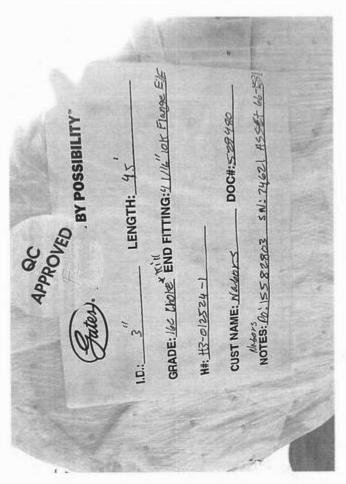


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XTO Permian Operating, LLC Offline Cementing Variance Request

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

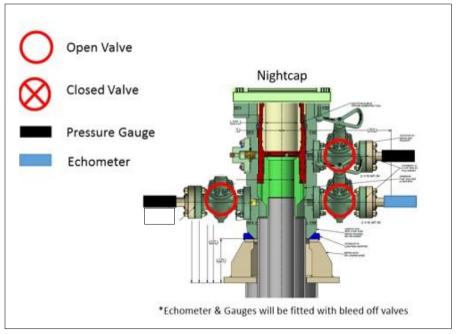
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

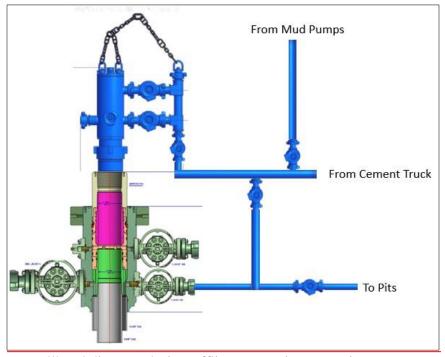
XTO Permian Operating, LLC Offline Cementing Variance Request



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

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

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

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

Description of Operations:

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

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement								
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP			
Drillpipe	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M			
	4.500"			Lower 3.5"-5.5" VBR	10M			
HWDP	5.000" or	Annular	5M	Upper 3.5"-5.5" VBR	10M			
	4.500"			Lower 3.5"-5.5" VBR	10M			
Jars	6.500"	Annular	5M	-	-			
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-			
Mud Motor	6.750"-8.000"	Annular	5M	-	-			
Production Casing	5-1/2"	Annular	5M	-	-			
Open-Hole	-	Blind Rams	10M	-	-			

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full-opening safety valve & close
- 3. Space out drill string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full-opening safety valve and close
- 3. Space out string
- 4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams (HCR & choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

- 1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP

- ii. Pit gain
- iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

JRU Apache DR Lease Number NMNM089051 XTO Permian Operating LLC

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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☐ Noxious Weeds
Special Requirements
Watershed
Lesser Prairie-Chicken Timing Stipulations
VRM
Potash
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Approval Date: 12/10/2024

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes.

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be

immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

Watershed:

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

<u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Potash Resources:

Lessees must comply with the 2012Secretarial Potash Order. The Order is designed to manage the efficient development of oil, gas, and potash resources. Section 6 of the Order provides general provisions which must be followed to minimize conflict between the industries and ensure the safety of operations.

To minimize impacts to potash resources, the proposed well is confined within the boundaries of the established Apache Drill Island (See Potash Memo and Map in attached file for Drill Island description).

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

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

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

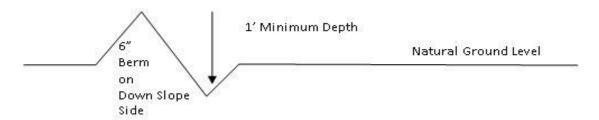
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

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

Construction Steps

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

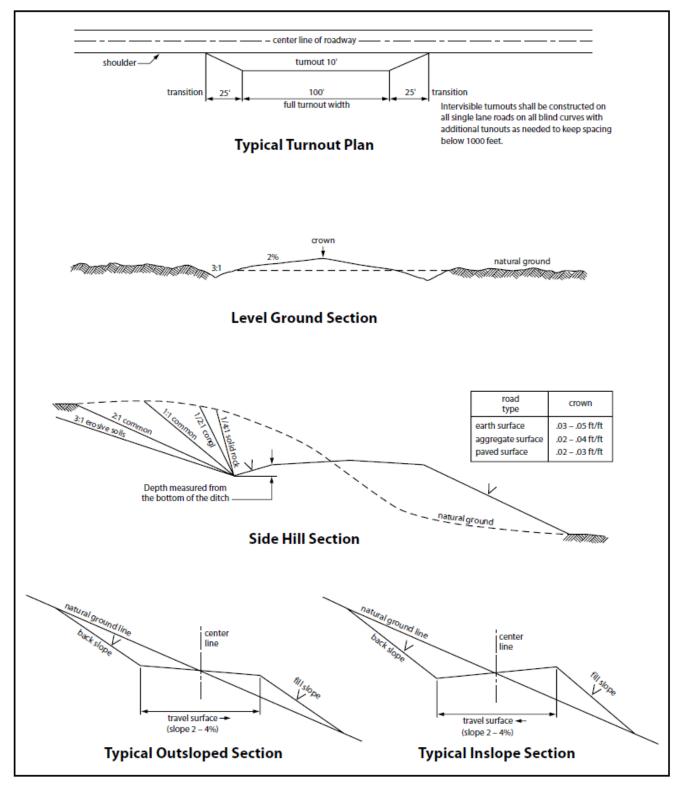


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.
- 4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

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- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized right-of-way width of <u>30</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of ______6 ____inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

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- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 16 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

16. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting,

excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

- 17. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 18. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 19. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is

wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.

Pipeline info for the 30ft flowline to the MSO Corridor

- 6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be <u>30</u> feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed **20** feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
 - The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

Pipeline info for the 100ft MSO Corridor

- 8. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.
- 9. The maximum allowable disturbance for construction in this right-of-way will be 100 feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 66 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 10<u>0</u> feet. The trench and bladed area are included in this area.

(Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)

- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 10. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 11. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 12. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 13. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 14. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

- 15. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – Shale Green, Munsell Soil Color No. 5Y 4/2.
- 16. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

- 17. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 18. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

- 19. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 20. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 21. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes

associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

- 22. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
 - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute,

APLIC, and the California Energy Commission 2006 . The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 11 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

11. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human

remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

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

13. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

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

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

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

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

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

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

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

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

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

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

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

Species

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

*Pounds of pure live seed:

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO LEASE NO.: NMNM89051

LOCATION: Sec. 24, T.22 S, R 30 E

COUNTY: | Eddy County, New Mexico

WELL NAME & NO.: James Ranch Unit Apache 135H **SURFACE HOLE FOOTAGE:** 2228'/S & 871'/E

BOTTOM HOLE FOOTAGE: 2228//S & 8/1//E **BOTTOM HOLE FOOTAGE:** 726'/N & 2629'/E

COA

H_2S	No		O Yes	
Potash /	O None	Secretary	• R-111-Q	Open Annulus
WIPP	4-Stri	ng Design: Engineered W	Veak Point	▼ WIPP
Cave / Karst	O Low	○ Low • Medium ○ High		Critical
Wellhead	Conventional	Multibowl	O Both	Diverter
Cementing	Primary Squeeze	☐ Cont. Squeeze	EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	\square COM	Unit
Waste Prev.	○ Self-Certification	O Waste Min. Plan	• APD Submitted prior to 06/10/2024	
Additional	▼ Flex Hose	Casing Clearance	☐ Pilot Hole	Break Testing
Language	☐ Four-String	Offline Cementing	✓ Fluid-Filled	

A. HYDROGEN SULFIDE

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

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 768 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be

- notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 pounds compressive strength</u>, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

2nd Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 3. The minimum required fill of cement behind the **7-5/8** inch production casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
 - a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon** at 6649'
 - **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement should tie-back **500 feet** into the previous casing but below the **Marker Bed 126** whichever is greater. Operator shall provide method of verification. If cement does not reach desired depth, the appropriate BLM office shall be notified.

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

Operator has proposed to pump down Intermediate 1 X Intermediate 2 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Intermediate 1 casing to tieback requirements listed above after the second stage BH to verify TOC. 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. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

If cement does not reach surface, the next casing string must come to surface.

❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing x Production Casing annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

Operator has proposed to pump down intermediate x production annulus post completion. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the production casing to surface after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back **500 feet** into the previous casing but below the Engineer Weak Point whichever is greater. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

WIPP Requirements

The proposed surface well or bottom hole is located within 330 feet of the WIPP Land Withdrawal Area boundary. As a result, the operator is required to submit daily drilling reports, logs and deviation survey information to the Bureau of Land Management Engineering Department and the U.S. Department of Energy per requirements of the Joint Powers Agreement until a total vertical depth of 7,000 feet is reached. These reports will have at a minimum, the depth of any excess mud returns (brine flows), the rate of penetration and a clearly marked section showing the deviation for each 500-foot interval. Operator may be required to do more frequent deviation surveys based on the daily information submitted and may be required to take other corrective measures. Information will also be provided to the New Mexico Oil Conservation Division after drilling activities have been completed. Upon completion of the well, the operator shall submit a complete directional survey. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

Any oil and gas well operator drilling within one mile of the WIPP Boundary must notify WIPP as soon as possible if any of the following conditions are encountered during oil and gas operations: R-111-Q Amendment - Notification to Operators (Potash)

- a) Indication of any well collision event,
- b) Suspected well fluid flow (oil, gas, or produced water) outside of casing,
- c) Sustained annulus pressure between the 1st intermediate and next innermost casing string in excess of 500 psi above the baseline pressure of the well, or above 1500 psi total,
- d) Increasing pressure buildup rates (psi/day) across multiple successive bleed-off cycles on the annulus between the 1st intermediate and next innermost casing during well production, or
- e) Sustained losses in excess of 50% through the salt formation during drilling.

The operator can email the required information to OilGasReports@wipp.ws. Attached files must not be greater than 20 MB. Call WIPP Tech Support at 575-234-7422, during the hours 7:00am to 4:30pm, if there are any issues sending to this address.

BOPE Break Testing Variance

• BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working

pressure and shall be higher than the MASP.)

- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

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

Casing Clearance

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

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

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

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

- requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Approved by Zota Stevens on 11/14/2024 575-234-5998 / zstevens@blm.gov



HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

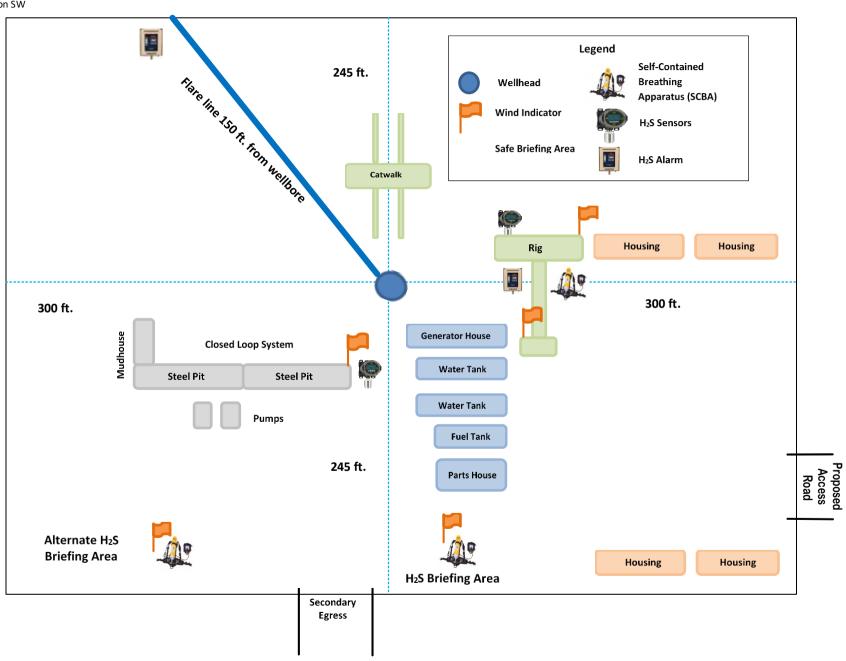
All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction,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

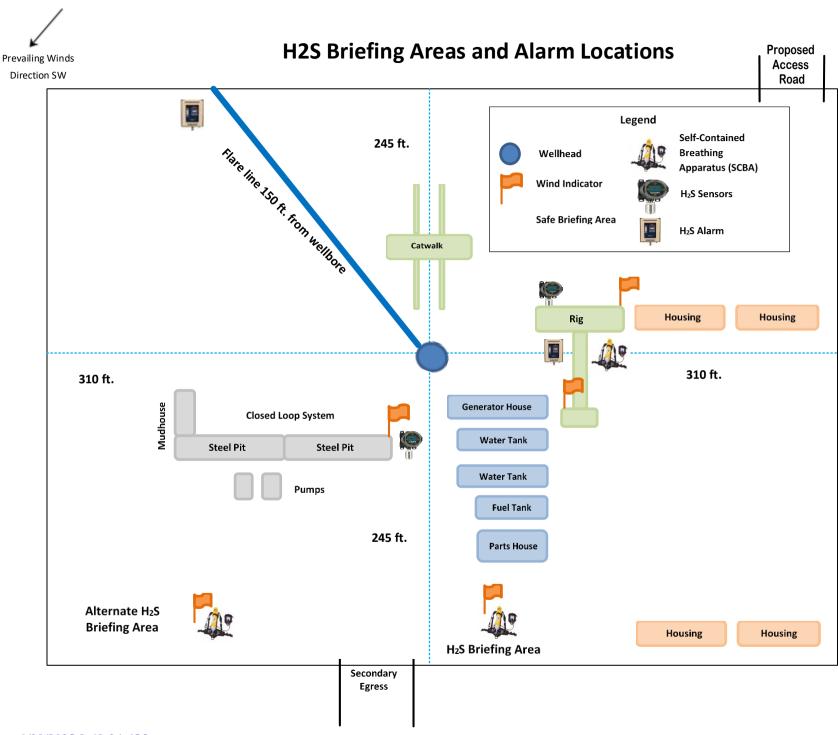
CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL: Will Dacus, Drilling Manager Brian Dunn, Drilling Supervisor Robert Bartels, Construction Execution Planner Andy Owens, EH & S Manager Frank Fuentes, Production Foreman	832-948-5021 832-653-0490 406-478-3617 903-245-2602 575-689-3363
SHERIFF DEPARTMENTS:	
Eddy County Lea County	575-887-7551 575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS: Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2112 575-397-9308 575-395-2221 575-396-2359
AGENT NOTIFICATIONS: For Lea County: Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
For Eddy County: Bureau of Land Management - Carlsbad New Mexico Oil Conservation Division - Artesia	575-234-5972 575-748-1283



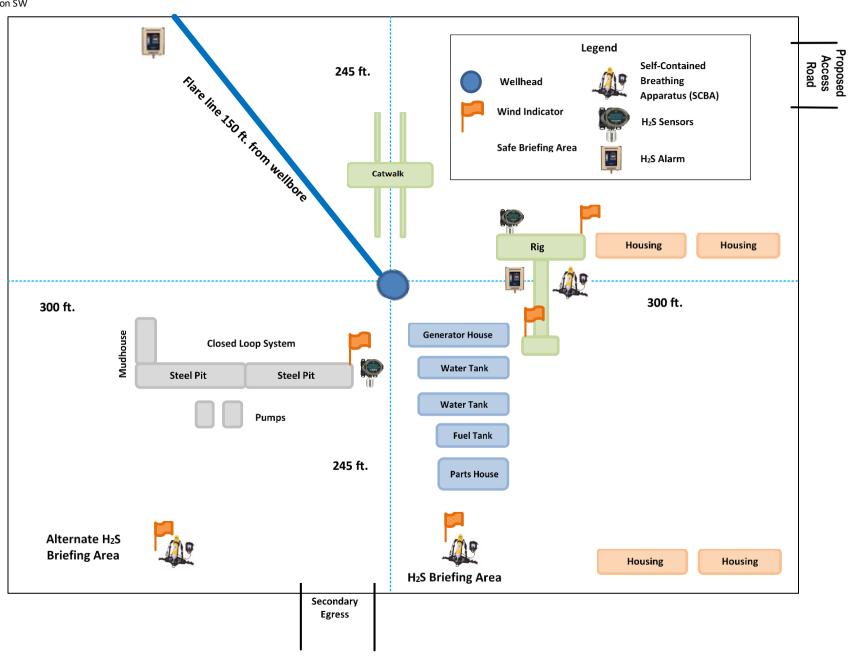
H2S Briefing Areas and Alarm Locations





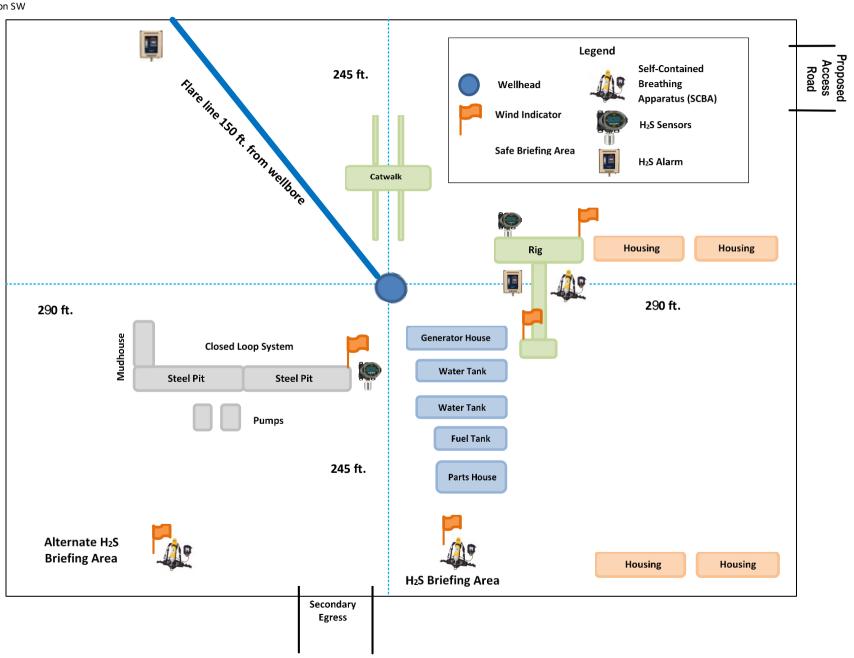


H2S Briefing Areas and Alarm Locations





H2S Briefing Areas and Alarm Locations





U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Repo

APD ID: 10400101204 Submission Date: 09/28/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Well Type: CONVENTIONAL GAS WELL Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

JAMES_RANCH_UNIT_APACHE_135H_Existing_Road_Map_20240924122420.pdf

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

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Apache_Road_20211110051658_20240919110426.pdf

New road type: RESOURCE

Width (ft.): 30 Length: 4897.61 Feet

Max slope (%): 2 **Max grade (%):** 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

New road access plan or profile prepared? N

New road access plan

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: GRAVEL

Access topsoil source: ONSITE

Access surfacing type description:

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: STRIPPED

Access other construction information: The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

Access miscellaneous information: The JRU Apache development area is accessed from the intersection of Hwy 128 (Jal Hwy) and Cimarron Ro go North on Cimarron Road approximately 2.2 miles. Turn right (east) on leas road approximately 1.3 miles then turn right (southeast) on lease road for approximately .2 miles. Then turn left (east) on lease road for approximately .8 miles, then turn left (north) on lease road for approximately .6 miles then turn left (North) on lease road for approximately .9 miles. Then turn right (East) for approximately .1 miles. Then turn left (north0 for .8 miles arriving at proposed road. Location is to the West. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, Vicinity Map. There are existing access roads to the proposed JRU Apache well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by FSC, Inc. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: LOW WATER

Drainage Control comments: The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) description: The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Apache_1Mile_Radius_20240919072009.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: A. Production Facilities. One (1) 600x600 pad was staked with the BLM for construction and use as a Central Vessel Battery (JRU Apache CVB). The proposed pad is located in the SWSW, Section 24-T22SR30E (Centerpoint: 1715FEL & 955FSL). Only the area necessary to maintain facilities will be disturbed. A 3160-5 sundry notification will be submitted after construction possessing a site-security diagram and layout of the facility with associated equipment. B. Buried & Surface Flowlines. In the event the JRU Apache wells are found productive, two-hundred and sixtytwo (262) 10in. or less buried composite flex pipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) for transport of oil, gas, frac water, gas lift, fuel gas, and produced water are requested to the JRU Apache CVB. If XTO decides to run surface lines, one-hundred and thirty-one (131) 4in. or less composite flex pipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) for transport of oil, gas and produced water will be required to the JRU Apache facility. The proposed corridor for flowlines: 17997.82ft long, 100ft. wide and 6417.82ft long, 30ft wide. Total Length of Flowlines: 24415.64ft. Total Acreage Associated with Flowlines: 45.73 Acres. C. Gas & Oil Pipeline. No additional oil or gas pipeline will be required for this project. D. 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. E. Flare. A flare independent of the proposed CVB location is not necessary for this project. F. 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. G. Containment Berms. Containment berms will be constructed completely around any production facilities designed. The containment berms will be constructed of compacted 24 caliche, be sufficiently impervious, away from cut or fill areas. H. Electrical. All lines will be primary 25kv to properly run expected production equipment. 18,218.31ft of electrical will be run from the anticipated tie-in point with a request for 30 ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

Production Facilities map:

Apache_FL_20211110052102_20240919061005.pdf

Apache_Facility_Pad_Plat_20240923085327.pdf

Apache_OHE_20211110052114_20240919061004.pdf

XTO_APACHE_CVB_PLOT_0001_01_Final_Facility_Layout_20240923085703.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Fresh Water

Water source use type: DUST CONTROL

SURFACE CASING

STIMULATION

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

DUST CONTROL

SURFACE CASING

STIMULATION

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000 Source volume (acre-feet): 70.89120298

Source volume (gal): 23100000

Water source type: OTHER

Describe type: Raw Produced Water

Water source use type: INTERMEDIATE/PRODUCTION

CASING

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000 Source volume (acre-feet): 70.89120298

Source volume (gal): 23100000

Water source type: RECYCLED

Water source use type: INTERMEDIATE/PRODUCTION

CASING

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000 Source volume (acre-feet): 70.89120298

Source volume (gal): 23100000

Water source and transportation

JAMES_RANCH_UNIT_APACHE_135H_Vicinity_Map_20240924122525.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. Water composition depends on the mud type needed per formation to protect useable water. Fresh water is trucked to location for use in surface casing drilling and cementing. All other water is either brackish or raw produced water that is all piped from either a pipeline or a pond (32.3651361, -103.867869) to the drilling location. Anticipated water usage for drilling includes an estimated 50,000 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 lines will be permitted via a Temporary Water Line Approved Decision letter and/or any necessary Right of Way Grants as needed based on drilling and completion schedules. Well completion is expected to require approximately 550,000 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.

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

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

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

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

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

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

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Anticipated Caliche Location: 32.330211,-103.814869

Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500

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.

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency: One Time Only

Safe containment description: The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off

style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Waste type: SEWAGE

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

Amount of waste: 250 gallons

Waste disposal frequency: Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Waste type: GARBAGE

Waste content description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an 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.

Safe containmant attachment:

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

FACILITY

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

JAMES_RANCH_UNIT_APACHE_135H_Well_Site_20240924122639.pdf JAMES_RANCH_UNIT_APACHE_135H_RL_20240924122646.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: JAMES RANCH UNIT APACHE

Multiple Well Pad Number: E

Recontouring

618.013002.10_XTO_JRU_APACHE_DI_PAD_D_INTERIM_REC_PAD_LAYOUT_FINAL_09_20_2024_20241102072603.p

618.013002.10_XTO_JRU_APACHE_DI_PAD_B_INTERIM_REC_PAD_LAYOUT_FINAL_09_20_2024_20241102072603.pdf

618.013002.10_XTO_JRU_APACHE_DI_PAD_E_INTERIM_REC_PAD_LAYOUT_FINAL_09_20_2024_20241102072604.pdf

618.013002.10_XTO_JRU_APACHE_DI_PAD_F_INTERIM_REC_PAD_LAYOUT_FINAL_09_20_2024_20241102072604.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.

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

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): 26.996

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 12.44

Pipeline proposed disturbance

(acres): 45.35

Other proposed disturbance (acres):

8.27

Total proposed disturbance: 96.416

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

10.311

Road interim reclamation (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

Pipeline interim reclamation (acres): 45.35

Other interim reclamation (acres): 8.27 Other long term disturbance (acres): 0

Total interim reclamation: 76.371

(acres): 16.685

Road long term disturbance (acres):

3.36

(acres): 0

Pipeline long term disturbance

(acres): 0

Total long term disturbance: 20.04499999999998

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.

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 vucca. 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:

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Pounds/Acre

Seed Type

Seed reclamation

Operator Contact/Responsible Official

First Name: Robert Last Name: Bartels

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

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

Total pounds/Acre:

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

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

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:	

Military Local Office:

State Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: NEW 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:

Operator Name: XTO PERMIAN OPERATING LLC
MAIL NAMES DANIGHTINIT ADACHE

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

Operator Name: XTO PERMIAN OPERATING LLC Well Name: JAMES RANCH UNIT APACHE Well Number: 135H **BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office:** Other Local Office: **USFS** Region: **USFS Forest/Grassland: USFS** Ranger District: Disturbance type: TRANSMISSION LINE Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office:** Other Local Office: **USFS** Region: **USFS Forest/Grassland: USFS Ranger District:**

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Disturbance type: OTHER

Describe: CENTRAL VESSEL BATTERY

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: OTHER

Describe: FLOWLINE

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Well Name: JAMES RANCH UNIT APACHE Well Number: 135H

Section 12 - Other

Right of Way needed? Y

Use APD as ROW? Y

ROW Type(s): 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,288101 ROW - O&G Facility Sites

ROW

SUPO Additional Information: Supo written for all Wells.

Use a previously conducted onsite? Y

Previous Onsite information: The XTO Permian Operating, LLC. representatives and BLM NRS were on location for onsite on 02/19/2020.

Other SUPO

JRU_Apache_SUPO_20240923104510.pdf

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 415049

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	415049
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
slaghuvarapu	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/25/2024
slaghuvarapu	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/25/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/20/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/20/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/20/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/20/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	1/20/2025