Form 3160-3 (June 2015) UNITED STATE	S	FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018
DEPARTMENT OF THE I	5. Lease Serial No.	
BUREAU OF LAND MAN	AGEMENT	
APPLICATION FOR PERMIT TO D	RILL OR REENTER	6. If Indian, Allotee or Tribe Name
		-
1a. Type of work:   DRILL	EENTER	7. If Unit or CA Agreement, Name and No.
1b. Type of Well:   Oil Well   Gas Well   O	Other	
1c. Type of Completion: Hydraulic Fracturing S	ingle Zone Multiple Zone	8. Lease Name and Well No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
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 off	ice*	12. County or Parish 13. State
<ul> <li>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> </ul>	16. No of acres in lease 17. Space	ing Unit dedicated to this well
<ul> <li>18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ul>	19. Proposed Depth 20. BLN	I/BIA Bond No. in file
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 o (as applicable)	f Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule per 43 CFR 3162.3-3
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>	4. Bond to cover the operation Item 20 above).	ons unless covered by an existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office	m Lands, the 5. Operator certification.	ormation and/or plans as may be requested by the
25. Signature	Name (Printed/Typed)	Date
Title	1	1
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	1
Application approval does not warrant or certify that the applicat applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal or equitable title to those right	s in the subject lease which would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements		



(Continued on page 2)

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# INSTRUCTIONS

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

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

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

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

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

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

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

# NOTICES

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

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

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

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

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

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

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

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

# **Additional Operator Remarks**

#### Location of Well

0. SHL: SESE / 477 FSL / 863 FEL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.386161 / LONG: -103.828381 (TVD: 0 feet, MD: 0 feet ) PPP: NESE / 1386 FSL / 330 FEL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.388657 / LONG: -103.826652 (TVD: 12296 feet, MD: 12900 feet ) PPP: NWSW / 1388 FSL / 1335 FWL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.388677 / LONG: -103.838562 (TVD: 12296 feet, MD: 16600 feet ) PPP: NESE / 1389 FSL / 0 FWL / TWSP: 22S / RANGE: 30E / SECTION: 14 / LAT: 32.388684 / LONG: -103.842886 (TVD: 12296 feet, MD: 17900 feet ) BHL: NWSW / 1386 FSL / 50 FWL / TWSP: 22S / RANGE: 30E / SECTION: 14 / LAT: 32.388711 / LONG: -103.860081 (TVD: 12296 feet, MD: 22450 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.

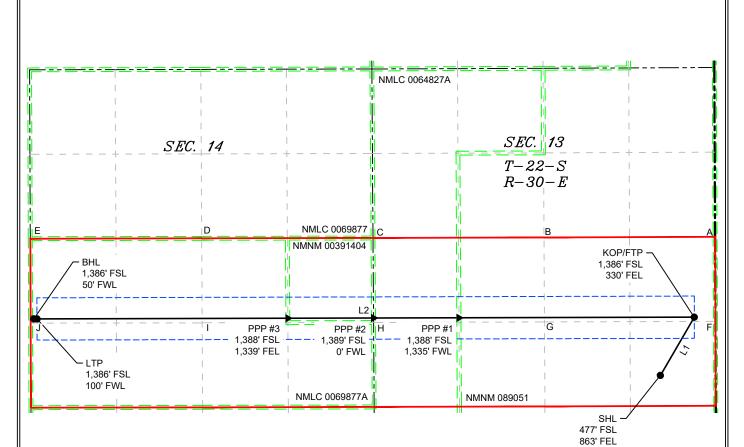
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	electronicall		State of New Mexico R Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION					evised July, 09		
Via OC	D Permitting								Initial Sub	mittal
								Submita Type:	Amended	Report
									As Drilled	
					WELL LOCAT	ION INFORMATION				
API Nu	ımber		Pool Code			Pool Name				
	30-01	5-		96336		LOS ME	DANOS; WO	OLFCAM		
Propert	y Code		Property N	ame	JAMES RAN	CH UNIT APACHE			Well Number	150H
OGRID	) No.		Operator N	ame					Ground Level	Elevation
	37307	75			XTO PERMIAN	N OPERATING, LL	С.		3	3,364'
Surface	Owner:	State □Fee □	]Tribal 🛛 Fee	deral		Mineral Owner:	State  Fee	🗆 Tribal 🛛	Federal	
		1			Surface	Hole Location	1			1
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Ρ	13	22S	30E		477 FSL	863 FEL	32.386	6161	-103.828381	EDD
	1					Hole Location	1			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
L	14	22S	30E		1,386 FSL	50 FWL	32.388	3711	-103.860081	EDD
Dedicat	ted Acres	Infill or Defi	ning Well	Defining	Well API	Overlapping Spacing	Unit (Y/N)	Consolida	ation Code	
64	40.00	INF	FILL	-		Y			Р	
Order N	Jumbers.		R-279-C			Well Setbacks are und	ler Common (	) Dwnership:	Yes 🗆 No	
UL	Section	Township	Range	Lot	Ft. from N/S	f Point (KOP) Ft. from E/W	Latitude		Longitude	County
Т	13	22S	30E		1,386 FSL	330 FEL	32.388	3657	-103.826652	EDD
					 First Tal	ke Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Т	13	22S	30E		1,386 FSL	330 FEL	32.388	3657	-103.826652	EDD
					Last Tal	ke Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
L	14	22S	30E		1,386 FSL	100 FWL	32.38	871	-103.859919	EDD
Unitize	d Area of Are	ea of Interest					Grou	nd Elevatio	'n	
				Spacing U	nit Type : 🛛 Horizo	ntal 🗌 Vertical			3,364'	
OPERA	ATOR CERT	FICATIONS				SURVEYOR CERTIFIC	CATIONS			
best of i that this	my knowledg s organization and including location pursu ed mineral int	e and belief, and n either owns a	d, if the well is working intere ottom hole loc ct with an own ntary pooling c	vertical or a est or unlease ation or has er of a work agreement or		I hereby certify that the actual surveys made by a correct to the best of my	ne or under m	hown on thi y supervisio	on, and that the sam	from field note the is true and
at this l unlease		ontal well, I fur of at least one i erest in each tra	lessee or owne act (in the targ ed interval wil	r of a workir et pool or in	ng interest or formation) in			PROFE	23786 23786 98/0NAL 5	$\langle \rangle$
at this l unlease pooling If this w received unlease which a compul.	d the consent ed mineral int any part of the sory pooling	e well's complet order from the c							V UNAL 9	/
at this l unlease pooling If this w received unlease which a compul.	d the consent ad mineral int any part of the sory pooling		reen	9/19/2	024	Signature and Soul of D	ofessional St.		- MAL	
at this l unlease pooling If this w received unlease which a compul.	d the consent d mineral int my part of th sory pooling Vriniva	order from the c	TEEN Date	9/19/2	024	Signature and Seal of Pro	ofessional Sur			
at this l unlease pooling If this w received unlease which a compul.	d the consent d mineral int inty part of this sory pooling vinita re Sriniva	order from the d	TEEN Date	9/19/2	024	Signature and Seal of Pro MARK DILLON HARP 237 Certificate Number	86		9/18/2024	
at this l unlease pooling If this w received unlease which a compul. Signatu	d the consent d mineral int my part of th sory pooling viniva re Sriniva Name	order from the c	TUN Date ghuvarapu		024	MARK DILLON HARP 237	86	veyor		
at this l unlease pooling If this w received unlease which a compul. Signatu	d the consent d mineral int my part of th sory pooling re Sriniva Name srinivas.1	order from the d A Nal as Naveen Lag	TUN Date ghuvarapu		024	MARK DILLON HARP 237	86	veyor		

#### 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	03010'27"	1,053.16'					
L2	269*50'51"	10,318.76'					

	COOR	DINA		LE		
SHL (I	NAD 83 NME	)	SHL (I	HL (NAD 27 NME)		
Y =	504,584.8	N	Y =	504,524.2	N	
X =	697,207.9	Е	X =	656,026.4	Е	
LAT. =	32.386161	°N	LAT. =	32.386038	°N	
LONG. =	103.828381	°W	LONG. =	103.827887	°W	
KOP/FT	P (NAD 83 N	ME)	KOP/FT	P (NAD 27 N	ME)	
Y =	505,495.3	Ν	Y =	505,434.7	Ν	
X =	697,737.3	Ш	X =	656,555.8	Е	
LAT. =	32.388657	°N	LAT. =	32.388534	°N	
LONG. =	103.826652	°W	LONG. =	103.826159	°W	
PPP #1	(NAD 83 NM	IE)	PPP #1	(NAD 27 NM	IE)	
Y =	505,485.5	Ζ	Y =	505,424.9	Ν	
X =	694,061.1	Е	X =	652,879.7	Е	
LAT. =	32.388677	°N	LAT. =	32.388555	°N	
LONG. =	103.838562	°W	LONG. =	103.838067	°W	
PPP #2	(NAD 83 NM	IE)	PPP #2	(NAD 27 NM	IE)	
Y =	505,482.0	Ν	Y =	505,421.3	Ν	
X =	692,726.1	Е	X =	651,544.7	Е	
LAT. =	32.388684	°N	LAT. =	32.388562	°N	
LONG. =	103.842886	°W	LONG. =	103.842392	°W	
PPP #3	(NAD 83 NM	IE)	PPP #3	(NAD 27 NM	IE)	
Y =	505,478.4	Ν	Y =	505,417.7	Ν	
X =	691,387.5	Е	X =	650,206.1	Е	
LAT. =	32.388691	°N	LAT. =	32.388569	°N	
LONG. =	103.847223	٩°	LONG. =	103.846729	°W	
LTP (I	NAD 83 NME	)	LTP (I	NAD 27 NME	)	
Y =	505,467.9	Ν	Y =	505,407.3	Ν	
X =	687,468.6	Е	X =	646,287.1	Е	
LAT. =	32.388711	°N	LAT. =	32.388588	°N	
LONG. =	103.859919	°W	LONG. =	103.859424	°W	
BHL (I	NAD 83 NME	)	BHL (I	NAD 27 NME	)	
Y =	505,467.8	Ν	Y =	505,407.2	Ν	
X =	687,418.6	Е	X =	646,237.1	Е	
LAT. =	32.388711	°N	LAT. =	32.388589	°N	
LONG. =	103.860081	°W	LONG. =	103.859586	°W	

LE	G	E١	١C	

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

CORNE		DIN	ATES (N	NAD 83 NM	E)
A - Y =	506,750.2	Ν	A - X =	698,061.8	Е
B - Y =	506,741.2	Ν	B - X =	695,389.1	Е
C - Y =	506,732.3	Ν	C - X =	692,717.9	Е
D - Y =	506,727.0	Ν	D - X =	690,042.0	Е
E - Y =	506,721.6	Ν	E - X =	687,363.4	Ε
F - Y =	505,430.3	Ν	F - X =	698,067.6	Е
G - Y =	505,421.3	Ν	G - X =	695,396.5	Е
H - Y =	505,412.6	Ν	H - X =	692,726.6	Ε
I - Y =	505,407.3	Ν	I - X =	690,049.1	Е
J - Y =	505,401.7	Ν	J - X =	687,368.8	Е
CORNE	R COORE	)IN	ATES (N	NAD 27 NM	E)
CORNE A - Y =	<b>R COORE</b> 506,689.5		ATES (N A - X =	AD 27 NM 656,880.3	,
A - Y =		Ν			,
A - Y = B - Y =	506,689.5	N N	A - X =	656,880.3 654,207.6	E
A - Y = B - Y =	506,689.5 506,680.6	N N N	A - X = B - X =	656,880.3 654,207.6 651,536.5	E E E
A - Y = B - Y = C - Y = D - Y =	506,689.5 506,680.6 506,671.6	N N N N	A - X = B - X = C - X =	656,880.3 654,207.6 651,536.5 648,860.6	E E E
A - Y = B - Y = C - Y = D - Y = E - Y =	506,689.5 506,680.6 506,671.6 506,666.3	X X Z Z Z	A - X = B - X = C - X = D - X =	656,880.3 654,207.6 651,536.5 648,860.6 646,182.1	E E E
A - Y = B - Y = C - Y = D - Y = E - Y =	506,689.5 506,680.6 506,671.6 506,666.3 506,660.9 505,369.7		A - X = B - X = C - X = D - X = E - X =	656,880.3 654,207.6 651,536.5 648,860.6 646,182.1 656,886.1	
A - Y = B - Y = C - Y = D - Y = E - Y = F - Y = G - Y =	506,689.5 506,680.6 506,671.6 506,666.3 506,660.9 505,369.7		A - X = B - X = C - X = D - X = E - X = F - X =	656,880.3 654,207.6 651,536.5 648,860.6 646,182.1 656,886.1 654,215.0	
A - Y = B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = H - Y =	506,689.5 506,680.6 506,671.6 506,666.3 506,660.9 505,369.7 505,360.7		A - X = B - X = C - X = D - X = E - X = G - X =	656,880.3 654,207.6 651,536.5 648,860.6 646,182.1 656,886.1 654,215.0 651,545.1	
A - Y = B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = H - Y = I - Y =	506,689.5 506,680.6 506,671.6 506,666.3 506,660.9 505,369.7 505,360.7 505,351.9		A - X = B - X = C - X = D - X = E - X = F - X = G - X = H - X =	656,880.3 654,207.6 651,536.5 648,860.6 646,182.1 656,886.1 654,215.0 651,545.1	

DB

618.013002.10-20

State of New Mexico Energy, Minerals and Natural Resources Department

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

# NATURAL GAS MANAGEMENT PLAN

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

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

**OGRID:** 373075

I. Operator: XTO PERMIAN OPERATING, LLC

**II. Type:** ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.

If Other, please describe:

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	3 yr Anticipated	Anticipated Gas	3 yr anticipated	Anticipated Produced	3 yr anticipated
					decline	MCF/D	decline Gas	Water	decline
					Oil BBL/D		MCF/D	BBL/D	Water
									BBL/D
James Ranch					100		1500		200
Unit Apache			507 FSL,						
149H	TBD	13 22S 30E	864 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			477 FSL,						
150H	TBD	13 22S 30E	863 FEL	600		2500		5000	
James Ranch			1524		100		1500		200
Unit Apache	TDD	04 00G 00F	FNL, 829	(00		2500			
142H	TBD	24 22S 30E	FEL	600		2500		5000	
James Ranch			2220 561		100		1500		200
Unit Apache	TDD	24 225 205	2228 FSL,	(00		2500		5000	
135H James Ranch	TBD	24 22S 30E	871 FEL	600	100	2500	1500	5000	200
Unit Apache			2227 FSL,		100		1500		200
136H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch	IDD	24 223 30E	JITLL	000	100	2300	1500	5000	200
Unit Apache			2257 FSL,		100		1500		200
137H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch	TDD	21220 302	<b>J</b>	000	100	2500	1500	5000	200
Unit Apache			2167 FSL,				1000		200
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		2500		5000	
James Ranch					100		1500		200
Unit Apache			2197 FSL,						
141H	TBD	24 22S 30E	971 FEL	600		2500		5000	

Submit Electronically Via E-permitting

Date: 08/19/2024

James Ranch	1				100		1500		200
Unit Apache			419 FSL,		100		1500		200
131H	TBD	24 22S 30E	890 FEL	600		2500		5000	
James Ranch	122	2.225.002	070122		100	2000	1500	2000	200
Unit Apache			389 FSL,						
132H	TBD	24 22S 30E	889 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			359 FSL,						
133H	TBD	24 22S 30E	889 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			329 FSL,						
134H	TBD	24 22S 30E	889 FEL	600		2500		5000	
James Ranch			2576 FSL,		200		1400		400
Unit Apache		13 22S 30E	867 FEL						
111H	TBD		0071EE	2000		5000		7000	
James Ranch			2516 FSL,		200		1400		400
Unit Apache		13 22S 30E	868 FEL						
112H	TBD		0001122	2000		5000		7000	
James Ranch			416 FSL,		200		1400		400
Unit Apache	-	13 22S 30E	962 FEL	• • • • •		-			
113H	TBD			2000		5000		7000	
James Ranch		24 225 205	350 FNL,		200		1400		400
Unit Apache	TDD	24 22S 30E	949 FEL	2000		5000		7000	
114H	TBD			2000	200	5000	4.400	7000	400
James Ranch		24 22S 30E	408 FNL,		200		1400		400
Unit Apache 115H	TBD	24 228 30E	848 FEL	2000		5000		7000	
James Ranch	IBD			2000	100	3000	1300	7000	400
Unit Apache		13 22S 30E	2577 FSL,		100		1300		400
701H	TBD	15 225 50E	967 FEL	1000		2000		4500	
James Ranch	IDD			1000	100	2000	1300	4300	400
Unit Apache		13 22S 30E	2517 FSL,		100		1500		400
702H	TBD	15 225 502	968 FEL	1000		2000		4500	
James Ranch	122			1000	100	2000	1300		400
Unit Apache		13 22S 30E	2486 FSL,				1000		
703H	TBD		868 FEL	1000		2000		4500	
James Ranch			0547 EGI		100		1300		400
Unit Apache		13 22S 30E	2547 FSL, 967 FEL						
704H	TBD		907 FEL	1000		2000		4500	
James Ranch			2487 FSL,		100		1300		400
Unit Apache		13 22S 30E	968 FEL						
705H	TBD		JOOTLE	1000		2000		4500	
James Ranch			2456 FSL,		100		1300		400
Unit Apache		13 22S 30E	869 FEL						
706H	TBD		007122	1000		2000		4500	
James Ranch			320 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	950 FEL	1000		2000		1500	
707H	TBD			1000	100	2000	4200	4500	400
James Ranch		24 225 205	380 FNL,		100		1300		400
Unit Apache 708H	TBD	24 22S 30E	949 FEL	1000		2000		4500	
James Ranch	עמי	}		1000	100	2000	1300	4,500	400
Unit Apache		24 22S 30E	348 FNL,		100		1300		400
709H	TBD	27 223 30Ľ	849 FEL	1000		2000		4500	
James Ranch				1000	100	2000	1300	1500	400
Unit Apache		24 22S 30E	410 FNL,		100		1300		+00
710H	TBD	2,220,502	948 FEL	1000		2000		4500	
James Ranch		1	a.c.====		100		1300		400
Unit Apache		24 22S 30E	318 FNL,						
711H	TBD		850 FEL	1000		2000		4500	
James Ranch	1 -		0	-	100	-	1000		300
Unit Apache		13 22S 30E	2546 FSL,						
801H	TBD		867 FEL	2000		6000		7000	
James Ranch			116 EST		100		1000		300
Unit Apache		13 22S 30E	446 FSL, 963 FEL						
802H	TBD		903 FEL	2000		6000		7000	
	•	•	•	-	•	•	•	· · · · · · · · · · · · · · · · · · ·	·

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James Ranch			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 804H	TBD	24 22S 30E	849 FEL	2000		6000		7000	
James Ranch	TBD		A 4 55 Day	2000	200	0000	1100	7000	500
Unit Apache		13 22S 30E	2457 FSL, 969 FEL						
901H	TBD		JUTTEL	2000		5000		8000	
James Ranch Unit Apache		13 22S 30E	506 FSL,		200		1100		500
902H	TBD	15 225 50E	964 FEL	2000		5000		8000	
James Ranch			386 FSL,		200		1100		500
Unit Apache		13 22S 30E	962 FEL						
903H James Ranch	TBD		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2000	200	5000	1100	8000	500
Unit Apache		24 22S 30E	440 FNL,		200		1100		500
904H	TBD	21220 302	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	TDD		909 FEL,		100		1000		500
805H		24 22S 30E	1526 FNL	2000		6000		7000	
James Ranch	TBD				200		1400		400
Unit Apache 116H		24 225 20E	909 FEL, 1556 FNL	2000		5000		7000	
James Ranch	TBD	24 22S 30E 24 22S 30E	1330 FINL	2000	200	3000	1100	7000	500
Unit Apache	TDD	21220 302	908 FEL,		200		1100		500
905H			1616 FNL	2000		5000		8000	
James Ranch	TBD	24 22S 30E	906 FEL,		100		1000		300
Unit Apache 806H			906 FEL, 1646 FNL	2000		6000		7000	
James Ranch	TBD	24 22S 30E	TOTOTICE	2000	200	0000	1400	,000	400
Unit Apache			907 FEL,						
117H	TDD	24.225.205	1676 FNL	2000		5000		7000	
James Ranch Unit Apache	TBD	24 22S 30E	930 FEL,		200		1100		500
907H			389 FSL	2000		5000		8000	
James Ranch	TBD	24 22S 30E			100		1000		300
Unit Apache			929 FEL,			6000			
807H	TDD	24.225.205	359 FSL	2000	100	6000	1000	7000	200
James Ranch Unit Apache	TBD	24 22S 30E	929 FEL,		100		1000		300
808H			329 FEL, 329 FSL	2000		6000		7000	
	1	1					1		

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

.

James Ranch Apache 138H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch	Unit		TBD	TBD	TBD	TBD	TBD
Apache 139H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 140H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 141H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 131H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 132H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 133H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 134H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 111H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 112H		TBD					
James Ranch Apache 113H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 114H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 115H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 701H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 702H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 703H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 704H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 705H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 706H	Unit		TBD	TBD	TBD	TBD	TBD
James Ranch	Unit	TBD TBD	TBD	TBD	TBD	TBD	TBD
Apache 707H James Ranch	Unit		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
Apache 903H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 904H James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 906H	Unit	TBD	100		100		100

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: X 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.

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

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

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

#### IX. Anticipated Natural Gas Production:

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

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

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

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

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

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

 $\Box$  Attach Operator's plan to manage production in response to the increased line pressure.

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

# Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

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

# Section 4 - Notices

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

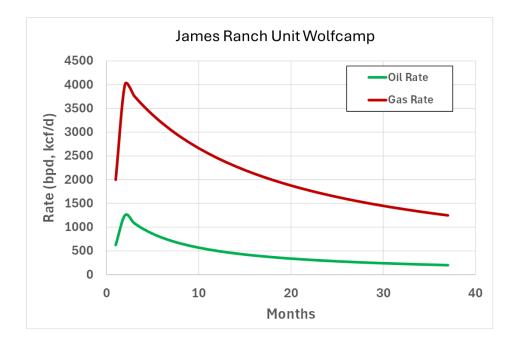
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit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

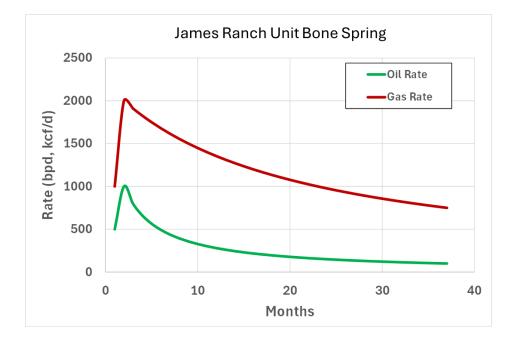
(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural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

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

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

Signature: AAAA										
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:										





#### 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

Page 18 of 112



# **Section 1 - Geologic Formations**

See	ction 1 - Geologic	Formatio	ons				
Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14719660	QUATERNARY	3364	0	Ö	ALLUVIUM	USEABLE WATER	N
14719661	RUSTLER	2892	472	472	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14719662	SALADO	2592	772	772	SALT	POTASH	N
14719663	BASE OF SALT	-260	3624	3624	SALT	POTASH	N
14719664	DELAWARE	-521	3885	3885	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14719665	BRUSHY CANYON	-3029	6393	6393	SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14719666	BONE SPRING	-4438	7802	7802	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14719667	BONE SPRING 1ST	-5285	8649	8649	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14719668	BONE SPRING 2ND	-5893	9257	9257	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14719669	BONE SPRING 3RD	-6509	9873	9873	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14719670	WOLFCAMP	-7708	11072	11072	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14719671	WOLFCAMP	-8029	11393	11393	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14719672	WOLFCAMP	-8415	11779	11779	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14719673	WOLFCAMP	-8768	12132	12132	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

**Section 2 - Blowout Prevention** 

Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

Page 19 of 112

# Pressure Rating (PSI): 10M

Rating Depth: 12296

**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

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	747	0	747	3364	2617	747	J-55	54.5	BUTT	3.42	3.1	DRY	22.3 3	DRY	22.3 3
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3724	0	3724	3393	-360	3724	J-55	40	BUTT	3.05	1.16	DRY	4.23	DRY	4.23
3	INTERMED IATE	8.75	7.625	NEW	API	Y	0	11380	0	11237	3393	-7873	11380	L-80	29.7	FJ	2.19	1.38	DRY	1.81	DRY	1.81
4	PRODUCTI ON	6.75	5.5	NEW	NON API	Y	0	22450	0	12296	3393	-8932	22450	P- 110	-	OTHER - TalonHTQ/F reedomHTQ	1.45	1.05	DRY	6.5	DRY	6.5

#### **Casing Attachments**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

#### **Casing Attachments**

Casing ID: 1	String	SURFACE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	orksheet(s):
JAMES_RANCH_L	JNIT_APACH	E_150H_Csg_20240924053810120241102082858.pdf
Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
_		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	orksheet(s):
JAMES_RANCH_L	JNIT_APACH	E_150H_Csg_20240924053810120241102082749.pdf
Casing ID: 3	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump		E_150H_Csg_202409240538101_20241102082802.pdf
JAIVIES_KAINUH_L		E_150H_Csg_20240924053810120241102082813.pdf

. Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

Page 21 of 112

#### **Casing Attachments**

Casing ID: 4 String PRODUCTION

Inspection Document:

#### Spec Document:

Freedom\_semi\_premium\_5.5\_production\_casing\_20240924054249.pdf Talon\_semiflush\_5.5\_production\_casing\_20240924054249.pdf

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

**Section 4 - Cement** 

JAMES\_RANCH\_UNIT\_APACHE\_150H\_Csg\_20240924053810\_\_1\_20241102082829.pdf

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

JAMES\_RANCH\_UNIT\_APACHE\_150H\_Csg\_20240924053810\_\_1\_20241102082841.pdf

			-								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	747	330	1.87	12.9	617.1	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	747	300	1.35	14.8	405	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	3724	1540	1.39	12.9	2140. 6	100	Class C	NA
INTERMEDIATE	Tail		0	3724	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		3224	6393	460	1.35	14.8	621	100	Class C	NA
INTERMEDIATE	Tail		6393	1138 0	720	1.33	14.8	957.6	100	Class C	NA
PRODUCTION	Lead		1088 0	1172 3	30	2.69	11.5	80.7	30	NeoCem	NA
PRODUCTION	Tail		1172 3	2245 0	770	1.51	13.2	1162. 7	30	VersaCem	NA

#### **Released to Imaging: 1/21/2025 10:53:19 AM**

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

Page 22 of 112

# 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.

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1138 0	2245 0	OIL-BASED MUD	12	12.5							
0	747	WATER-BASED MUD	8.5	9							
747	3724	SALT SATURATED	10.5	11							
3724	1138 0	OTHER : BDE/OBM	10	10.5							

Well Name: JAMES RANCH UNIT APACHE

Operator Name: XTO PERMIAN OPERATING LLC

Well Number: 150H

# 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: 7992

Anticipated Surface Pressure: 5286

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\_20240923044106.pdf

# **Section 8 - Other Information**

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

JAMES\_RANCH\_UNIT\_APACHE\_150H\_Directional\_Drilling\_20240924060347.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:

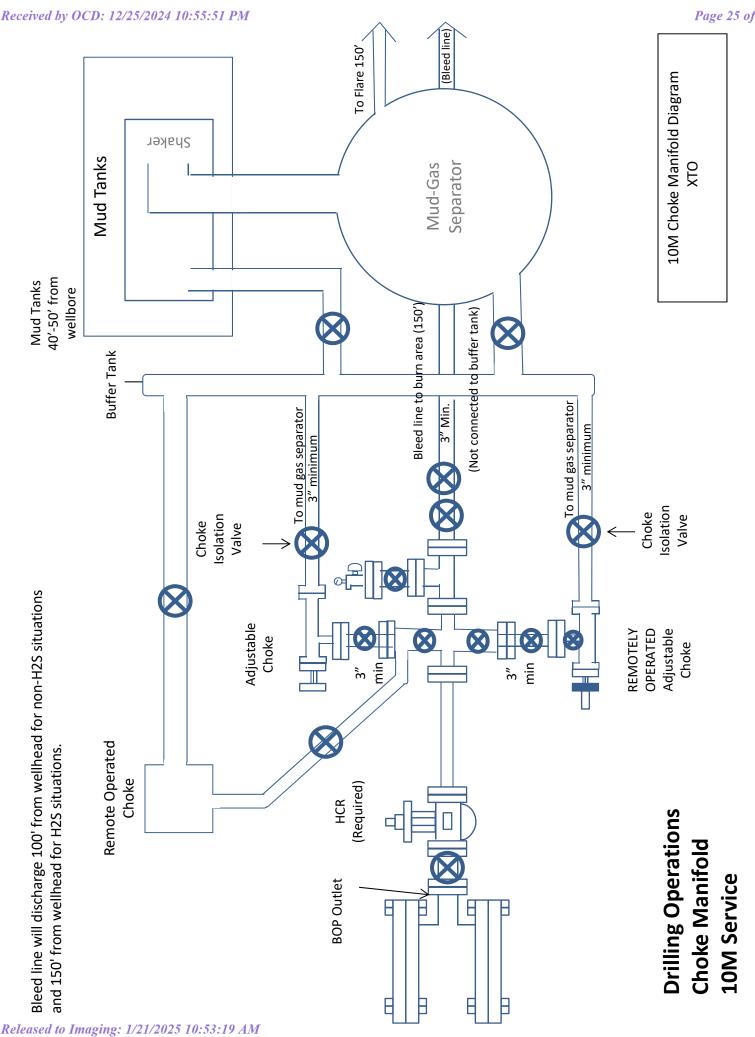
4\_String\_Wellbore\_diagram\_with\_pop\_valve\_and\_engineered\_weak\_point\_20240923062341.pdf Apache\_H2S\_DiaB\_20240923095052.pdf Apache\_H2S\_DiaE\_20240923095114.pdf Apache\_H2S\_DiaE\_20240923095145.pdf Apache\_H2S\_DiaF\_20240923095222.pdf JRU\_APACHE\_MBS\_13.375\_9.625\_7.625\_5.5\_4\_String\_20240923084913.pdf JAMES\_RANCH\_UNIT\_APACHE\_150H\_Cmt\_20240924060413.pdf Apache\_GCP\_20241102083044.pdf Operator Name: XTO PERMIAN OPERATING LLC

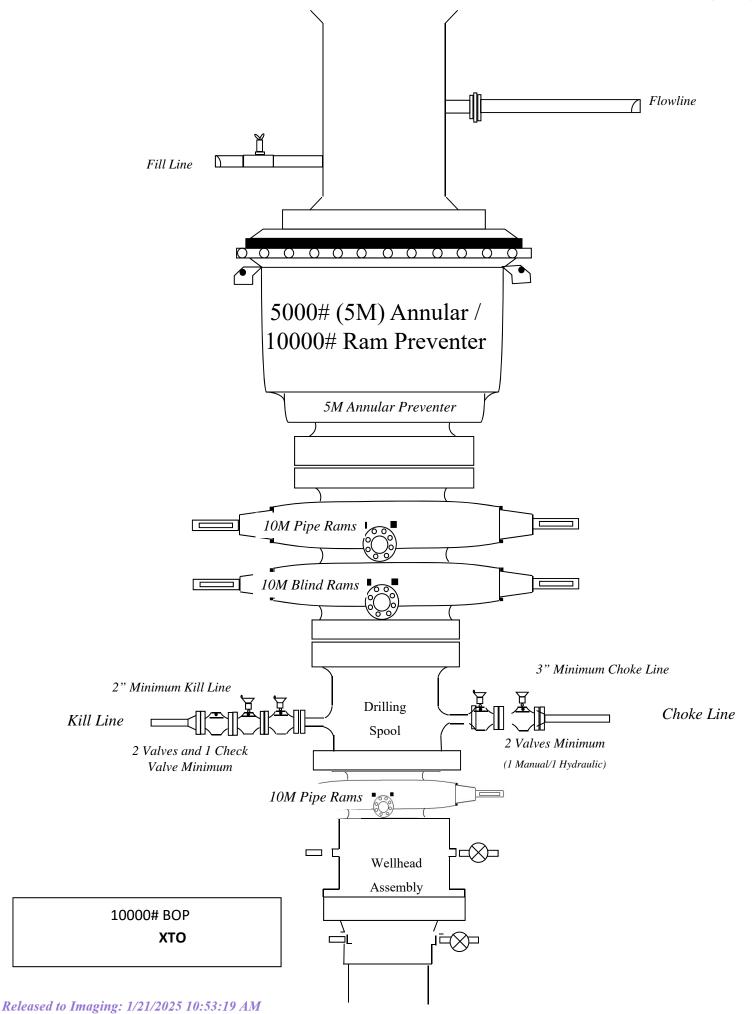
Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

#### Other Variance attachment:

Flex\_Hose\_Updated\_20240923060944.pdf JRU\_Apache\_\_OLCV\_20240923060942.pdf Spudder\_Rig\_Request\_20240923060941.pdf Wild\_Well\_Control\_Plan\_20240923060943.pdf





#### 11/29/2021 4:16:04 PM

# U. S. Steel Tubular Products 11/29/20 5.500" 20.00Ib/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 marco op rorquo				

# **Notes**

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).

2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bend rating shown is structural only.

4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.

6. Coupling must meet minimum mechanical properties of the pipe.

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

#### 11/8/2023 1:08:50 PM

# U. S. Steel Tubular Products 11/8/2 5.500" 20.00Ib/ft (0.361" Wall) P110 RY USS-FREEDOM HTQ<sup>®</sup>

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

2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.

3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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

# **Casing Assumptions**

# Casing Design

Hole Size	MD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tensior
17.5	0' - 747'	13.375	54.5	J-55	BTC	New	3.10	<mark>3.42</mark>	22. <mark>3</mark> 3
12.25	0' - 3724'	9.625	40	J-55	BTC	New	1.16	3.05	4.23
8.75	0' - 3824'	7.625	29.7	RY P-110	Flush Joint	New	1.90	2.69	1.65
8.75	3824' – <mark>11379.8'</mark>	7.625	29.7	HC L-80	Flush Joint	New	1.38	2.19	1.81
6.75	0' 11279.8'	5.5	20	RY P-110	Semi-Premium/Freedom HT(	New	1.05	1.58	1.98
6.75	11279.8' - 22450.07'	5.5	20	RY P-110	Semi-Flush/Talon HTQ	New	1.05	1.45	6.50

Well Plan Report

# Well Plan Report - James Ranch Unit Apache 150H

Measured Depth:	22450.07 ft
TVD RKB:	12296.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	504524.20 ft
Easting:	656026.40 ft
RKB:	3396.00 ft
Ground Level:	3364.00 ft
North Reference:	Grid
Convergence Angle:	0.27 Deg

Plan Sections	Jar	nes Ranch Unit A	Apache 150H					
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
4485.45	16.71	30.18	4473.65	104.57	60.80	2.00	0.00	2.00
7307.28	16.71	30.18	7176.35	805.93	468.60	0.00	0.00	0.00
8142.73	0.00	0.00	8000.00	910.50	529.40	-2.00	0.00	2.00
11722.53	0.00	0.00	11579.80	910.50	529.40	0.00	0.00	0.00
12847.53	90.00	269.85	12296.00	908.59	-186.79	8.00	0.00	8.00
22400.17	90.00	269.85	12296.00	883.08	-9739.40	0.00	0.00	0.00 LTP 4
22450.07	90.00	269.85	12296.00	882.95	-9789.30	0.00	0.00	0.00 BHL 34

#### **Position Uncertainty**

James Ranch Unit Apache 150H

Measured	TVD Highside	Latera	Vertical	Magnitude	Semi-	Semi-	Semi- Tool
Measureu	TVD Highside	Latera	ventical	Magintude	major	minor	minor

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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	2.485	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	2.531	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	2.581	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	2.634	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	2.691	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	2.751	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	2.813	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	2.878	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	2.946	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	3.015	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	3.087	0.000	0.000	6.452	6.273	90.000	XOMR2_OWSG MWD+IFR1+MS	

Received by 9 GP:	12/25/202	4 10:55:5	51 PM				Well Pla	an Report					Page 32 of 112
1900.000	0.000	0.000	1900.000	6.811	0.000	6.632 0.000	3.161 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	3.236 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	3.313 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	3.392 0.000	0.000	7.886	7.707		XOMR2_OWSG MWD+IFR1+MS	
2300.000	0.000	0.000	2300.000	8.245	0.000	8.066 0.000	3.472 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	3.554 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	3.637 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	3.722 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	3.808 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	3.895 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	3.984 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	4.074 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	4.165 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	4.544 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	4.642 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	30.175	3699.997	13.216	0.000	13.129 0.000	4.741 0.000	0.000	13.263	13.083		XOMR2_OWSG MWD+IFR1+MS	

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3800.000	3.000	30.175	3799.931	13.557	0.000	13.484 0.000	4.841 0.000	0.000	13.619	13.438	90.061 ×	KOMR2_OWSG MWD+IFR1+MS	
3900.000	5.000	30.175	3899.683	13.884	0.000	13.838 0.000	4.941 0.000	0.000	13.975	13.792	90.124 X N	KOMR2_OWSG MWD+IFR1+MS	
4000.000	7.000	30.175	3999.130	14.194	0.000	14.191 0.000	5.042 0.000	0.000	14.330	14.144	90.128 X N	KOMR2_OWSG MWD+IFR1+MS	
4100.000	9.000	30.175	4098.152	14.488	0.000	14.543 0.000	5.143 0.000	0.000	14.684	14.495	90.025 ×	KOMR2_OWSG MWD+IFR1+MS	
4200.000	11.000	30.175	4196.628	14.766	0.000	14.893 0.000	5.244 0.000	0.000	15.036	14.844	89.774 X N	KOMR2_OWSG MWD+IFR1+MS	
4300.000	13.000	30.175	4294.437	15.028	0.000	15.243 0.000	5.347 0.000	0.000	15.387	15.191	89.336 X N	KOMR2_OWSG MWD+IFR1+MS	
4400.000	15.000	30.175	4391.462	15.273	0.000	15.592 0.000	5.452 0.000	0.000	15.737	15.537	88.675 ×	KOMR2_OWSG MWD+IFR1+MS	
4485.446	16.709	30.175	4473.655	15.470	0.000	15.889 0.000	5.543 0.000	0.000	16.034	15.831	87.944 ×	KOMR2_OWSG MWD+IFR1+MS	
4500.000	16.709	30.175	4487.594	15.522	0.000	15.940 0.000	5.557 0.000	0.000	16.085	15.881	87.922 X N	KOMR2_OWSG MWD+IFR1+MS	
4600.000	16.709	30.175	4583.372	15.877	0.000	16.289 0.000	5.676 0.000	0.000	16.431	16.226	86.533 ×	KOMR2_OWSG MWD+IFR1+MS	
4700.000	16.709	30.175	4679.149	16.236	0.000	16.641 0.000	5.799 0.000	0.000	16.781	16.572	85.214 ×	KOMR2_OWSG MWD+IFR1+MS	
4800.000	16.709	30.175	4774.927	16.597	0.000	16.995 0.000	5.925 0.000	0.000	17.132	16.921	83.966 <sup>X</sup> N	KOMR2_OWSG MWD+IFR1+MS	
4900.000	16.709	30.175	4870.705	16.960	0.000	17.351 0.000	6.055 0.000	0.000	17.486	17.271	82.791 <sup>X</sup> M	KOMR2_OWSG MWD+IFR1+MS	
5000.000	16.709	30.175	4966.483	17.325	0.000	17.708 0.000	6.188 0.000	0.000	17.842	17.623	81.686 <sup>X</sup> N	KOMR2_OWSG MWD+IFR1+MS	
5100.000	16.709	30.175	5062.261	17.693	0.000	18.067 0.000	6.324 0.000	0.000	18.200	17.977	80.651 <sup>X</sup> N	KOMR2_OWSG MWD+IFR1+MS	
5200.000	16.709	30.175	5158.038	18.063	0.000	18.428 0.000	6.463 0.000	0.000	18.559	18.332	79.683 × N	KOMR2_OWSG MWD+IFR1+MS	
5300.000	16.709	30.175	5253.816	18.434	0.000	18.791 0.000	6.605 0.000	0.000	18.921	18.689	78.779 × N	KOMR2_OWSG MWD+IFR1+MS	
5400.000	16.709	30.175	5349.594	18.807	0.000	19.155 0.000	6.750 0.000	0.000	19.284	19.048	77.936 <sup>X</sup> N	KOMR2_OWSG MWD+IFR1+MS	
5500.000	16.709	30.175	5445.372	19.182	0.000	19.520 0.000	6.897 0.000	0.000	19.649	19.407	77.151 × M	KOMR2_OWSG MWD+IFR1+MS	
5600.000	16.709	30.175	5541.149	19.558	0.000	19.887 0.000	7.048 0.000	0.000	20.015	19.769	76.421 ×	KOMR2_OWSG MWD+IFR1+MS	

Received by 9 GP:	: 12/25/202	24 10:55:5	51 PM				Well	Plan Report				Page 34 of 112
5700.000	16.709	30.175	5636.927	19.935	0.000	20.254 0.000	7.201 0.000	0.000	20.382	20.131	75.741 XOMR2_OWS0 MWD+IFR1+M	6
5800.000	16.709	30.175	5732.705	20.314	0.000	20.623 0.000	7.357 0.000	0.000	20.751	20.494	75.110 XOMR2_OWS0 MWD+IFR1+M	
5900.000	16.709	30.175	5828.483	20.695	0.000	20.993 0.000	7.516 0.000	0.000	21.121	20.859	74.523 XOMR2_OWS0 MWD+IFR1+M	3
6000.000	16.709	30.175	5924.260	21.076	0.000	21.364 0.000	7.678 0.000	0.000	21.492	21.225	73.978 XOMR2_OWS0 MWD+IFR1+M	
6100.000	16.709	30.175	6020.038	21.459	0.000	21.736 0.000	7.842 0.000	0.000	21.864	21.592	73.473 XOMR2_OWS0 MWD+IFR1+M	
6200.000	16.709	30.175	6115.816	21.842	0.000	22.109 0.000	8.008 0.000	0.000	22.237	21.960	73.003 XOMR2_OWS0 MWD+IFR1+M	
6300.000	16.709	30.175	6211.594	22.227	0.000	22.483 0.000	8.177 0.000	0.000	22.611	22.329	72.568 XOMR2_OWS0 MWD+IFR1+M	6 6
6400.000	16.709	30.175	6307.372	22.613	0.000	22.858 0.000	8.349 0.000	0.000	22.986	22.698	72.165 XOMR2_OWS0 MWD+IFR1+M	6 6
6500.000	16.709	30.175	6403.149	22.999	0.000	23.233 0.000	8.523 0.000	0.000	23.362	23.069	71.791 XOMR2_OWS0 MWD+IFR1+M	
6600.000	16.709	30.175	6498.927	23.387	0.000	23.610 0.000	8.699 0.000	0.000	23.739	23.440	71.446 XOMR2_OWS0 MWD+IFR1+M	6 6
6700.000	16.709	30.175	6594.705	23.775	0.000	23.987 0.000	8.878 0.000	0.000	24.117	23.813	71.126 XOMR2_OWS0 MWD+IFR1+M	9 8
6800.000	16.709	30.175	6690.483	24.164	0.000	24.364 0.000	9.060 0.000	0.000	24.495	24.186	70.831 XOMR2_OWS0 MWD+IFR1+M	9 6
6900.000	16.709	30.175	6786.260	24.554	0.000	24.743 0.000	9.244 0.000	0.000	24.874	24.559	70.558 XOMR2_OWS0 MWD+IFR1+M	9 9
7000.000	16.709	30.175	6882.038	24.945	0.000	25.122 0.000	9.430 0.000	0.000	25.254	24.934	70.307 XOMR2_OWS0 MWD+IFR1+M	9 9
7100.000	16.709	30.175	6977.816	25.336	0.000	25.501 0.000	9.619 0.000	0.000	25.635	25.309	70.077 XOMR2_OWS0 MWD+IFR1+M	6 6
7200.000	16.709	30.175	7073.594	25.728	0.000	25.881 0.000	9.810 0.000	0.000	26.016	25.685	69.865 XOMR2_OWS0 MWD+IFR1+M	6 6
7307.281	16.709	30.175	7176.345	26.150	0.000	26.290 0.000	10.017 0.000	0.000	26.425	26.089	69.655 XOMR2_OWS0 MWD+IFR1+M	6 6
7400.000	14.855	30.175	7265.565	26.617	0.000	26.642 0.000	10.199 0.000	0.000	26.778	26.437	69.506 XOMR2_OWS0 MWD+IFR1+M	6 6
7500.000	12.855	30.175	7362.651	27.089	0.000	27.019 0.000	10.395 0.000	0.000	27.157	26.812	69.462 XOMR2_OWS0 MWD+IFR1+M	9 8
7600.000	10.855	30.175	7460.513	27.528	0.000	27.392 0.000	10.588 0.000	0.000	27.532	27.184	69.556 XOMR2_OWS0 MWD+IFR1+M	6 6

Received by 9 CP:	12/25/202	24 10:55:5	51 PM				Well F	Plan Report					Page 35 of 112
7700.000	8.855	30.175	7559.033	27.931	0.000	27.762 0.000	10.778 0.000	0.000	27.903	27.553	69.739	XOMR2_OWSG MWD+IFR1+MS	
7800.000	6.855	30.175	7658.089	28.299	0.000	28.127 0.000	10.966 0.000	0.000	28.270	27.919	69.962	XOMR2_OWSG MWD+IFR1+MS	
7900.000	4.855	30.175	7757.563	28.630	0.000	28.487 0.000	11.151 0.000	0.000	28.632	28.280	70.177	XOMR2_OWSG MWD+IFR1+MS	
8000.000	2.855	30.175	7857.331	28.925	0.000	28.841 0.000	11.334 0.000	0.000	28.987	28.635	70.342	XOMR2_OWSG MWD+IFR1+MS	
8100.000	0.855	30.175	7957.274	29.181	0.000	29.190 0.000	11.515 0.000	0.000	29.337	28.985	70.415	XOMR2_OWSG MWD+IFR1+MS	
8142.728	0.000	0.000	8000.000	29.445	0.000	29.172 0.000	11.592 0.000	0.000	29.485	29.132	70.390	XOMR2_OWSG MWD+IFR1+MS	
8200.000	0.000	0.000	8057.272	29.642	0.000	29.369 0.000	11.696 0.000	0.000	29.682	29.329	70.317	XOMR2_OWSG MWD+IFR1+MS	
8300.000	0.000	0.000	8157.272	29.987	0.000	29.714 0.000	11.878 0.000	0.000	30.027	29.673	70.193	XOMR2_OWSG MWD+IFR1+MS	
8400.000	0.000	0.000	8257.272	30.331	0.000	30.059 0.000	12.064 0.000	0.000	30.373	30.017	70.072	XOMR2_OWSG MWD+IFR1+MS	
8500.000	0.000	0.000	8357.272	30.677	0.000	30.404 0.000	12.252 0.000	0.000	30.718	30.362	69.955	XOMR2_OWSG MWD+IFR1+MS	
8600.000	0.000	0.000	8457.272	31.022	0.000	30.749 0.000	12.444 0.000	0.000	31.064	30.707	69.841	XOMR2_OWSG MWD+IFR1+MS	
8700.000	0.000	0.000	8557.272	31.368	0.000	31.095 0.000	12.639 0.000	0.000	31.411	31.052	69.730	XOMR2_OWSG MWD+IFR1+MS	
8800.000	0.000	0.000	8657.272	31.714	0.000	31.441 0.000	12.837 0.000	0.000	31.757	31.397	69.623	XOMR2_OWSG MWD+IFR1+MS	
8900.000	0.000	0.000	8757.272	32.060	0.000	31.787 0.000	13.038 0.000	0.000	32.104	31.743	69.518	XOMR2_OWSG MWD+IFR1+MS	
9000.000	0.000	0.000	8857.272	32.406	0.000	32.134 0.000	13.242 0.000	0.000	32.451	32.089	69.417	XOMR2_OWSG MWD+IFR1+MS	
9100.000	0.000	0.000	8957.272	32.753	0.000	32.481 0.000	13.449 0.000	0.000	32.798	32.435	69.318	XOMR2_OWSG MWD+IFR1+MS	
9200.000	0.000	0.000	9057.272	33.100	0.000	32.828 0.000	13.659 0.000	0.000	33.146	32.782	69.221	XOMR2_OWSG MWD+IFR1+MS	
9300.000	0.000	0.000	9157.272	33.448	0.000	33.175 0.000	13.873 0.000	0.000	33.494	33.129	69.128	XOMR2_OWSG MWD+IFR1+MS	
9400.000	0.000	0.000	9257.272	33.795	0.000	33.523 0.000	14.089 0.000	0.000	33.842	33.476	69.036	XOMR2_OWSG MWD+IFR1+MS	
9500.000	0.000	0.000	9357.272	34.143	0.000	33.870 0.000	14.309 0.000	0.000	34.190	33.823	68.947	XOMR2_OWSG MWD+IFR1+MS	

Received by 96P:	12/25/2024	4 10:55:51 P	PM				Well Plan F	Report					Page 36 of 112
9600.000	0.000	0.000 94	57.272 34.49	1 0.000	34.218 0.000	14.532	0.000	0.000	34.538	34.170	68.861	XOMR2_OWSG MWD+IFR1+MS	
9700.000	0.000	0.000 95	57.272 34.83	9 0.000	34.567 0.000	14.758	0.000	0.000	34.887	34.518	68.776	XOMR2_OWSG MWD+IFR1+MS	
9800.000	0.000	0.000 96	57.272 35.18	7 0.000	34.915 0.000	14.987	0.000	0.000	35.236	34.866	68.694	XOMR2_OWSG MWD+IFR1+MS	
9900.000	0.000	0.000 97	57.272 35.53	6 0.000	35.264 0.000	15.219	0.000	0.000	35.585	35.214	68.613	XOMR2_OWSG MWD+IFR1+MS	
10000.000	0.000	0.000 98	57.272 35.88	5 0.000	35.613 0.000	15.455	0.000	0.000	35.934	35.563	68.535	XOMR2_OWSG MWD+IFR1+MS	
10100.000	0.000	0.000 99	57.272 36.234	4 0.000	35.962 0.000	15.693	0.000	0.000	36.284	35.911	68.458	XOMR2_OWSG MWD+IFR1+MS	
10200.000	0.000	0.000 100	57.272 36.58	3 0.000	36.311 0.000	15.935	0.000	0.000	36.633	36.260	68.383	XOMR2_OWSG MWD+IFR1+MS	
10300.000	0.000	0.000 101	57.272 36.93	2 0.000	36.660 0.000	16.180	0.000	0.000	36.983	36.609	68.310	XOMR2_OWSG MWD+IFR1+MS	
10400.000	0.000	0.000 102	57.272 37.28	0.000	37.010 0.000	16.428	0.000	0.000	37.333	36.958	68.238	XOMR2_OWSG MWD+IFR1+MS	
10500.000	0.000	0.000 103	57.272 37.63	0.000	37.359 0.000	16.679	0.000	0.000	37.683	37.307	68.169	XOMR2_OWSG MWD+IFR1+MS	
10600.000	0.000	0.000 104	57.272 37.98	0.000	37.709 0.000	16.934	0.000	0.000	38.033	37.657	68.100	XOMR2_OWSG MWD+IFR1+MS	
10700.000	0.000	0.000 105	57.272 38.33	0.000	38.059 0.000	17.191	0.000	0.000	38.384	38.006	68.034	XOMR2_OWSG MWD+IFR1+MS	
10800.000	0.000	0.000 106	57.272 38.68	1 0.000	38.410 0.000	17.452	0.000	0.000	38.734	38.356	67.969	XOMR2_OWSG MWD+IFR1+MS	
10900.000	0.000	0.000 107	57.272 39.03	1 0.000	38.760 0.000	17.716	0.000	0.000	39.085	38.706	67.905	XOMR2_OWSG MWD+IFR1+MS	
11000.000	0.000	0.000 108	57.272 39.38	2 0.000	39.110 0.000	17.983	0.000	0.000	39.436	39.056	67.842	XOMR2_OWSG MWD+IFR1+MS	
11100.000	0.000	0.000 109	57.272 39.73	2 0.000	39.461 0.000	18.253	0.000	0.000	39.787	39.406	67.781	XOMR2_OWSG MWD+IFR1+MS	
11200.000	0.000	0.000 110	57.272 40.08	3 0.000	39.812 0.000	18.527	0.000	0.000	40.138	39.757	67.722	XOMR2_OWSG MWD+IFR1+MS	
11300.000	0.000	0.000 111	57.272 40.434	4 0.000	40.163 0.000	18.803	0.000	0.000	40.489	40.107	67.663	XOMR2_OWSG MWD+IFR1+MS	
11400.000	0.000	0.000 112	57.272 40.78	5 0.000	40.514 0.000	19.083	0.000	0.000	40.840	40.458	67.606	XOMR2_OWSG MWD+IFR1+MS	
11500.000	0.000	0.000 113	57.272 41.13	6 0.000	40.865 0.000	19.366	0.000	0.000	41.192	40.809	67.550	XOMR2_OWSG MWD+IFR1+MS	

Received by 9 CP:	12/25/20	24 10:55:	51 PM			Well Pl	an Report				Page 37 of 112
11600.000	0.000	0.000	11457.272	41.487 0.00	0 41.216 0.000	19.652 0.000	0.000	41.543	41.160	67.495 XOMR MWD+	2_OWSG IFR1+MS
11700.000	0.000	0.000	11557.272	41.839 0.00	0 41.568 0.000	19.941 0.000	0.000	41.895	41.511		2_OWSG IFR1+MS
11722.528	0.000	0.000	11579.800	41.918 0.00	0 41.647 0.000	20.007 0.000	0.000	41.974	41.590	67.429 XOMR MWD+	2_OWSG IFR1+MS
11800.000	6.198	269.847	11657.121	41.554 -0.00	0 42.182 0.000	20.231 0.000	0.000	42.239	41.850	67.329 XOMR MWD+	2_OWSG IFR1+MS
11900.000	14.198	269.847	11755.462	40.870 -0.00	0 42.505 0.000	20.514 0.000	0.000	42.564	42.158	67.316 XOMR MWD+	2_OWSG IFR1+MS
12000.000	22.198	269.847	11850.383	39.587 -0.00	0 42.817 0.000	20.785 0.000	0.000	42.879	42.440	67.821 XOMR: MWD+	2_OWSG IFR1+MS
12100.000	30.198	269.847	11940.038	37.760 -0.00	0 43.114 0.000	21.040 0.000	0.000	43.176	42.689	68.949 XOMR MWD+	2_OWSG IFR1+MS
12200.000	38.198	269.847	12022.681	35.474 -0.00	0 43.394 0.000	21.279 0.000	0.000	43.454	42.900	70.619 XOMR: MWD+	2_OWSG IFR1+MS
12300.000	46.198	269.847	12096.704	32.848 -0.00	0 43.654 0.000	21.505 0.000	0.000	43.709	43.071	72.670 XOMR MWD+	2_OWSG IFR1+MS
12400.000	54.198	269.847	12160.666	30.050 -0.00	0 43.895 0.000	21.720 0.000	0.000	43.943	43.204	74.933 XOMR MWD+	2_OWSG IFR1+MS
12500.000	62.198	269.847	12213.322	27.304 -0.00	0 44.116 0.000	21.929 0.000	0.000	44.156	43.299	77.270 XOMR MWD+	2_OWSG IFR1+MS
12600.000	70.198	269.847	12253.647	24.907 -0.00	0 44.318 0.000	22.138 0.000	0.000	44.349	43.362	79.580 XOMR MWD+	2_OWSG IFR1+MS
12700.000	78.198	269.847	12280.856	23.215 -0.00	0 44.500 0.000	22.351 0.000	0.000	44.522	43.400	81.797 XOMR MWD+	2_OWSG IFR1+MS
12800.000	86.198	269.847	12294.421	22.564 -0.00	0 44.660 0.000	22.572 0.000	0.000	44.674	43.420	83.895 XOMR MWD+	2_OWSG IFR1+MS
12847.528	90.000	269.847	12295.997	22.679 0.00	0 44.727 0.000	22.679 0.000	0.000	44.737	43.426	84.849 XOMR MWD+	2_OWSG IFR1+MS
12900.000	90.000	269.847	12295.997	22.803 0.00	0 44.802 0.000	22.803 0.000	0.000	44.809	43.431	85.858 XOMR MWD+	2_OWSG IFR1+MS
13000.000	90.000	269.847	12295.997	23.057 0.00	0 44.968 0.000	23.057 0.000	0.000	44.970	43.440		2_OWSG IFR1+MS
13100.000	90.000	269.847	12295.997	23.334 0.00	0 45.160 0.000	23.334 0.000	0.000	45.160	43.447		2_OWSG IFR1+MS
13200.000	90.000	269.847	12295.997	23.635 0.00	0 45.379 0.000	23.635 0.000	0.000	45.379	43.453		2_OWSG IFR1+MS
13300.000	90.000	269.847	12295.997	23.957 0.00	0 45.625 0.000	23.957 0.000	0.000	45.626	43.459	90.959 XOMR MWD+	2_OWSG IFR1+MS

Received by OCD:	12/25/2024	4 10:55:5	51 PM					Well Plan F	Report					Page 38 of 112
13400.000	90.000	269.847	12295.997	24.300	0.000	45.897 0.000	24.300	0.000	0.000	45.900	43.464	91.636	XOMR2_OWSG MWD+IFR1+MS	
13500.000	90.000	269.847	12295.997	24.664	0.000	46.195 0.000	24.664	0.000	0.000	46.199	43.470	92.152	XOMR2_OWSG MWD+IFR1+MS	
13600.000	90.000	269.847	12295.997	25.047	0.000	46.517 0.000	25.047	0.000	0.000	46.524	43.476	92.541	XOMR2_OWSG MWD+IFR1+MS	
13700.000	90.000	269.847	12295.997	25.448	0.000	46.865 0.000	25.448	0.000	0.000	46.874	43.483	92.830	XOMR2_OWSG MWD+IFR1+MS	
13800.000	90.000	269.847	12295.997	25.867	0.000	47.236 0.000	25.867	0.000	0.000	47.247	43.490	93.042	XOMR2_OWSG MWD+IFR1+MS	
13900.000	90.000	269.847	12295.997	26.302	0.000	47.631 0.000	26.302	0.000	0.000	47.645	43.498	93.192	XOMR2_OWSG MWD+IFR1+MS	
14000.000	90.000	269.847	12295.997	26.754	0.000	48.049 0.000	26.754	0.000	0.000	48.065	43.507	93.296	XOMR2_OWSG MWD+IFR1+MS	
14100.000	90.000	269.847	12295.997	27.221	0.000	48.489 0.000	27.221	0.000	0.000	48.507	43.517	93.362	XOMR2_OWSG MWD+IFR1+MS	
14200.000	90.000	269.847	12295.997	27.702	0.000	48.951 0.000	27.702	0.000	0.000	48.971	43.527	93.401	XOMR2_OWSG MWD+IFR1+MS	
14300.000	90.000	269.847	12295.997	28.197	0.000	49.434 0.000	28.197	0.000	0.000	49.455	43.538	93.417	XOMR2_OWSG MWD+IFR1+MS	
14400.000	90.000	269.847	12295.997	28.704	0.000	49.937 0.000	28.704	0.000	0.000	49.960	43.550	93.416	XOMR2_OWSG MWD+IFR1+MS	
14500.000	90.000	269.847	12295.997	29.224	0.000	50.461 0.000	29.224	0.000	0.000	50.485	43.563	93.401	XOMR2_OWSG MWD+IFR1+MS	
14600.000	90.000	269.847	12295.997	29.756	0.000	51.003 0.000	29.756	0.000	0.000	51.029	43.577	93.377	XOMR2_OWSG MWD+IFR1+MS	
14700.000	90.000	269.847	12295.997	30.298	0.000	51.565 0.000	30.298	0.000	0.000	51.592	43.591	93.345	XOMR2_OWSG MWD+IFR1+MS	
14800.000	90.000	269.847	12295.997	30.851	0.000	52.144 0.000	30.851	0.000	0.000	52.173	43.607	93.307	XOMR2_OWSG MWD+IFR1+MS	
14900.000	90.000	269.847	12295.997	31.414	0.000	52.741 0.000	31.414	0.000	0.000	52.770	43.623	93.264	XOMR2_OWSG MWD+IFR1+MS	
15000.000	90.000	269.847	12295.997	31.986	0.000	53.355 0.000	31.986	0.000	0.000	53.385	43.640	93.218	XOMR2_OWSG MWD+IFR1+MS	
15100.000	90.000	269.847	12295.997	32.567	0.000	53.985 0.000	32.567	0.000	0.000	54.016	43.657	93.170	XOMR2_OWSG MWD+IFR1+MS	
15200.000	90.000	269.847	12295.997	33.157	0.000	54.630 0.000	33.157	0.000	0.000	54.663	43.676	93.121	XOMR2_OWSG MWD+IFR1+MS	
15300.000	90.000	269.847	12295.997	33.754	0.000	55.291 0.000	33.754	0.000	0.000	55.324	43.695	93.070	XOMR2_OWSG MWD+IFR1+MS	

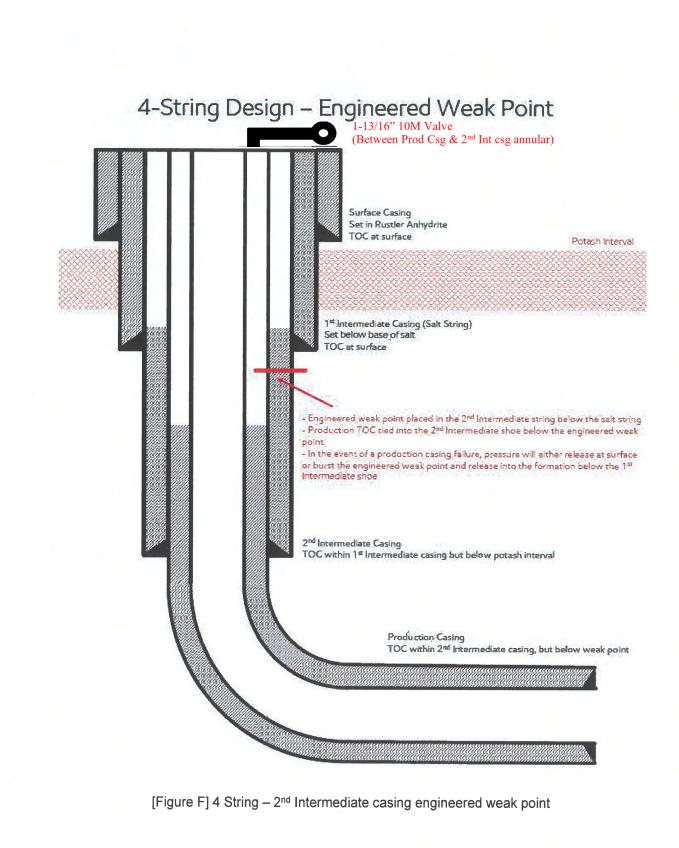
Received by OCD:	12/25/20	24 10:55:	51 PM						Well Plan F	Report					Page 39 of 112
15400.000	90.000	269.847	12295.997	34.359	0.000	55.967 0.0	000 3	34.359	0.000	0.000	56.001	43.715	93.019	XOMR2_OWSG MWD+IFR1+MS	
15500.000	90.000	269.847	12295.997	34.971	0.000	56.657 0.0	000 3	34.971	0.000	0.000	56.691	43.736	92.968	XOMR2_OWSG MWD+IFR1+MS	
15600.000	90.000	269.847	12295.997	35.590	0.000	57.360 0.0	000 3	35.590	0.000	0.000	57.395	43.757	92.917	XOMR2_OWSG MWD+IFR1+MS	
15700.000	90.000	269.847	12295.997	36.215	0.000	58.077 0.0	000 3	36.215	0.000	0.000	58.112	43.779	92.867	XOMR2_OWSG MWD+IFR1+MS	
15800.000	90.000	269.847	12295.997	36.847	0.000	58.806 0.0	000 3	36.847	0.000	0.000	58.841	43.802	92.817	XOMR2_OWSG MWD+IFR1+MS	
15900.000	90.000	269.847	12295.997	37.484	0.000	59.547 0.0	000 3	37.484	0.000	0.000	59.583	43.826	92.768	XOMR2_OWSG MWD+IFR1+MS	
16000.000	90.000	269.847	12295.997	38.127	0.000	60.300 0.0	000 3	38.127	0.000	0.000	60.336	43.850	92.719	XOMR2_OWSG MWD+IFR1+MS	
16100.000	90.000	269.847	12295.997	38.775	0.000	61.065 0.0	000 3	38.775	0.000	0.000	61.101	43.876	92.672	XOMR2_OWSG MWD+IFR1+MS	
16200.000	90.000	269.847	12295.997	39.428	0.000	61.840 0.0	000 3	39.428	0.000	0.000	61.876	43.902	92.625	XOMR2_OWSG MWD+IFR1+MS	
16300.000	90.000	269.847	12295.997	40.085	0.000	62.626 0.0	000 4	40.085	0.000	0.000	62.662	43.928	92.580	XOMR2_OWSG MWD+IFR1+MS	
16400.000	90.000	269.847	12295.997	40.747	0.000	63.422 0.0	000 4	40.747	0.000	0.000	63.458	43.956	92.535	XOMR2_OWSG MWD+IFR1+MS	
16500.000	90.000	269.847	12295.997	41.414	0.000	64.227 0.0	000 4	41.414	0.000	0.000	64.263	43.984	92.492	XOMR2_OWSG MWD+IFR1+MS	
16600.000	90.000	269.847	12295.997	42.084	0.000	65.042 0.0	000 4	42.084	0.000	0.000	65.078	44.013	92.449	XOMR2_OWSG MWD+IFR1+MS	
16700.000	90.000	269.847	12295.997	42.759	0.000	65.866 0.0	000 4	42.759	0.000	0.000	65.902	44.042	92.408	XOMR2_OWSG MWD+IFR1+MS	
16800.000	90.000	269.847	12295.997	43.437	0.000	66.698 0.0	000 4	43.437	0.000	0.000	66.735	44.072	92.367	XOMR2_OWSG MWD+IFR1+MS	
16900.000	90.000	269.847	12295.997	44.118	0.000	67.539 0.0	000 4	44.118	0.000	0.000	67.576	44.103	92.328	XOMR2_OWSG MWD+IFR1+MS	
17000.000	90.000	269.847	12295.997	44.803	0.000	68.388 0.0	000 4	44.803	0.000	0.000	68.425	44.135	92.289	XOMR2_OWSG MWD+IFR1+MS	
17100.000	90.000	269.847	12295.997	45.492	0.000	69.245 0.0	000 4	45.492	0.000	0.000	69.281	44.167	92.252	XOMR2_OWSG MWD+IFR1+MS	
17200.000	90.000	269.847	12295.997	46.183	0.000	70.109 0.0	000 4	46.183	0.000	0.000	70.145	44.200	92.215	XOMR2_OWSG MWD+IFR1+MS	
17300.000	90.000	269.847	12295.997	46.877	0.000	70.980 0.0	000 4	46.877	0.000	0.000	71.016	44.234	92.180	XOMR2_OWSG MWD+IFR1+MS	

Received by OCD:	12/25/2024 10:	55:51 PM					Well Plan I	Report					Page 40 of 112
17400.000	90.000 269.8	47 12295.997	47.574	0.000	71.859 0.000	47.574	0.000	0.000	71.895	44.269	92.145	XOMR2_OWSG MWD+IFR1+MS	
17500.000	90.000 269.8	47 12295.997	48.274	0.000	72.744 0.000	48.274	0.000	0.000	72.779	44.304	92.111	XOMR2_OWSG MWD+IFR1+MS	
17600.000	90.000 269.8	47 12295.997	48.976	0.000	73.635 0.000	48.976	0.000	0.000	73.671	44.339	92.079	XOMR2_OWSG MWD+IFR1+MS	
17700.000	90.000 269.8	47 12295.997	49.681	0.000	74.533 0.000	49.681	0.000	0.000	74.568	44.376	92.046	XOMR2_OWSG MWD+IFR1+MS	
17800.000	90.000 269.8	47 12295.997	50.388	0.000	75.436 0.000	50.388	0.000	0.000	75.472	44.413	92.015	XOMR2_OWSG MWD+IFR1+MS	
17900.000	90.000 269.8	47 12295.997	51.098	0.000	76.346 0.000	51.098	0.000	0.000	76.381	44.451	91.985	XOMR2_OWSG MWD+IFR1+MS	
18000.000	90.000 269.8	47 12295.997	51.809	0.000	77.260 0.000	51.809	0.000	0.000	77.295	44.490	91.955	XOMR2_OWSG MWD+IFR1+MS	
18100.000	90.000 269.8	47 12295.997	52.523	0.000	78.181 0.000	52.523	0.000	0.000	78.216	44.529	91.926	XOMR2_OWSG MWD+IFR1+MS	
18200.000	90.000 269.8	47 12295.997	53.239	0.000	79.106 0.000	53.239	0.000	0.000	79.141	44.569	91.898	XOMR2_OWSG MWD+IFR1+MS	
18300.000	90.000 269.8	47 12295.997	53.956	0.000	80.037 0.000	53.956	0.000	0.000	80.071	44.609	91.870	XOMR2_OWSG MWD+IFR1+MS	
18400.000	90.000 269.8	47 12295.997	54.676	0.000	80.972 0.000	54.676	0.000	0.000	81.006	44.651	91.843	XOMR2_OWSG MWD+IFR1+MS	
18500.000	90.000 269.8	47 12295.997	55.397	0.000	81.912 0.000	55.397	0.000	0.000	81.946	44.692	91.817	XOMR2_OWSG MWD+IFR1+MS	
18600.000	90.000 269.8	47 12295.997	56.120	0.000	82.856 0.000	56.120	0.000	0.000	82.890	44.735	91.791	XOMR2_OWSG MWD+IFR1+MS	
18700.000	90.000 269.8	47 12295.997	56.845	0.000	83.805 0.000	56.845	0.000	0.000	83.839	44.778	91.766	XOMR2_OWSG MWD+IFR1+MS	
18800.000	90.000 269.8	47 12295.997	57.571	0.000	84.758 0.000	57.571	0.000	0.000	84.792	44.822	91.742	XOMR2_OWSG MWD+IFR1+MS	
18900.000	90.000 269.8	47 12295.997	58.299	0.000	85.715 0.000	58.299	0.000	0.000	85.749	44.867	91.718	XOMR2_OWSG MWD+IFR1+MS	
19000.000	90.000 269.8	47 12295.997	59.028	0.000	86.676 0.000	59.028	0.000	0.000	86.709	44.912	91.695	XOMR2_OWSG MWD+IFR1+MS	
19100.000	90.000 269.8	47 12295.997	59.758	0.000	87.641 0.000	59.758	0.000	0.000	87.674	44.958	91.672	XOMR2_OWSG MWD+IFR1+MS	
19200.000	90.000 269.8	47 12295.997	60.490	0.000	88.610 0.000	60.490	0.000	0.000	88.642	45.004	91.650	XOMR2_OWSG MWD+IFR1+MS	
19300.000	90.000 269.8	47 12295.997	61.223	0.000	89.582 0.000	61.223	0.000	0.000	89.614	45.051	91.628	XOMR2_OWSG MWD+IFR1+MS	

Received by 29 CM	: 12/25/2024 10:55:51 PM		Well Plan Report	Page 4	41 of 112
19400.000	90.000 269.847 12295.997	61.958 0.000 90.557 0.000	0 61.958 0.000 0.000 90.590	45.099 91.607 XOMR2_OWSG MWD+IFR1+MS	
19500.000	90.000 269.847 12295.997	62.694 0.000 91.536 0.000	0 62.694 0.000 0.000 91.568	45.147 91.586 XOMR2_OWSG MWD+IFR1+MS	
19600.000	90.000 269.847 12295.997	63.431 0.000 92.518 0.000	0 63.431 0.000 0.000 92.550	45.197 91.566 XOMR2_OWSG MWD+IFR1+MS	
19700.000	90.000 269.847 12295.997	64.169 0.000 93.504 0.000	0 64.169 0.000 0.000 93.535	45.246 91.546 XOMR2_OWSG MWD+IFR1+MS	
19800.000	90.000 269.847 12295.997	64.908 0.000 94.492 0.000	0 64.908 0.000 0.000 94.523	45.297 91.527 XOMR2_OWSG MWD+IFR1+MS	
19900.000	90.000 269.847 12295.997	65.648 0.000 95.483 0.000	0 65.648 0.000 0.000 95.514	45.348 91.508 XOMR2_OWSG MWD+IFR1+MS	
20000.000	90.000 269.847 12295.997	66.389 0.000 96.477 0.000	0 66.389 0.000 0.000 96.508	45.399 91.489 XOMR2_OWSG MWD+IFR1+MS	
20100.000	90.000 269.847 12295.997	67.131 0.000 97.474 0.000	0 67.131 0.000 0.000 97.505	45.451 91.471 XOMR2_OWSG MWD+IFR1+MS	
20200.000	90.000 269.847 12295.997	67.874 0.000 98.473 0.000	0 67.874 0.000 0.000 98.504	45.504 91.453 XOMR2_OWSG MWD+IFR1+MS	
20300.000	90.000 269.847 12295.997	68.618 0.000 99.476 0.000	0 68.618 0.000 0.000 99.506	45.558 91.436 XOMR2_OWSG MWD+IFR1+MS	
20400.000	90.000 269.847 12295.997	69.363 0.000 100.480 0.000	0 69.363 0.000 0.000 100.510	45.612 91.419 XOMR2_OWSG MWD+IFR1+MS	
20500.000	90.000 269.847 12295.997	70.109 0.000 101.487 0.000	0 70.109 0.000 0.000 101.517	45.667 91.402 XOMR2_OWSG MWD+IFR1+MS	
20600.000	90.000 269.847 12295.997	70.856 0.000 102.497 0.000	0 70.856 0.000 0.000 102.526	45.722 91.386 XOMR2_OWSG MWD+IFR1+MS	
20700.000	90.000 269.847 12295.997	71.604 0.000 103.508 0.000	0 71.604 0.000 0.000 103.538	45.778 91.370 XOMR2_OWSG MWD+IFR1+MS	
20800.000	90.000 269.847 12295.997	72.352 0.000 104.522 0.000	0 72.352 0.000 0.000 104.551	45.834 91.354 XOMR2_OWSG MWD+IFR1+MS	
20900.000	90.000 269.847 12295.997	73.101 0.000 105.538 0.000	0 73.101 0.000 0.000 105.567	45.892 91.338 XOMR2_OWSG MWD+IFR1+MS	
21000.000	90.000 269.847 12295.997	73.851 0.000 106.557 0.000	0 73.851 0.000 0.000 106.585	45.949 91.323 XOMR2_OWSG MWD+IFR1+MS	
21100.000	90.000 269.847 12295.997	74.601 0.000 107.577 0.000	0 74.601 0.000 0.000 107.605	46.008 91.308 XOMR2_OWSG MWD+IFR1+MS	
21200.000	90.000 269.847 12295.997	75.352 0.000 108.599 0.000	0 75.352 0.000 0.000 108.627	46.067 91.294 XOMR2_OWSG MWD+IFR1+MS	
21300.000	90.000 269.847 12295.997	76.104 0.000 109.623 0.000	0 76.104 0.000 0.000 109.651	46.126 91.280 XOMR2_OWSG MWD+IFR1+MS	

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21400.000	90.000	269.847	12295.997	76.857	0.000	110.649 0.	.000	76.857	0.000	0.000	110.677	46.186	91.266	XOMR2_OWSG MWD+IFR1+MS	
21500.000	90.000	269.847	12295.997	77.610	0.000	111.677 0.	.000	77.610	0.000	0.000	111.705	46.247	91.252	XOMR2_OWSG MWD+IFR1+MS	
21600.000	90.000	269.847	12295.997	78.364	0.000	112.707 0.	.000	78.364	0.000	0.000	112.734	46.309	91.239	XOMR2_OWSG MWD+IFR1+MS	
21700.000	90.000	269.847	12295.997	79.118	0.000	113.738 0.	.000	79.118	0.000	0.000	113.766	46.370	91.225	XOMR2_OWSG MWD+IFR1+MS	
21800.000	90.000	269.847	12295.997	79.873	0.000	114.771 0.	.000	79.873	0.000	0.000	114.799	46.433	91.212	XOMR2_OWSG MWD+IFR1+MS	
21900.000	90.000	269.847	12295.997	80.629	0.000	115.806 0.	.000	80.629	0.000	0.000	115.833	46.496	91.200	XOMR2_OWSG MWD+IFR1+MS	
22000.000	90.000	269.847	12295.997	81.385	0.000	116.842 0.	.000	81.385	0.000	0.000	116.869	46.560	91.187	XOMR2_OWSG MWD+IFR1+MS	
22100.000	90.000	269.847	12295.997	82.142	0.000	117.880 0.	.000	82.142	0.000	0.000	117.907	46.624	91.175	XOMR2_OWSG MWD+IFR1+MS	
22200.000	90.000	269.847	12295.997	82.899	0.000	118.920 0.	.000	82.899	0.000	0.000	118.946	46.689	91.163	XOMR2_OWSG MWD+IFR1+MS	
22300.000	90.000	269.847	12295.997	83.656	0.000	119.960 0.	.000	83.656	0.000	0.000	119.987	46.754	91.151	XOMR2_OWSG MWD+IFR1+MS	
22400.171	90.000	269.847	12295.997	84.416	0.000	121.005 0.	.000	84.416	0.000	0.000	121.031	46.821	91.139	XOMR2_OWSG MWD+IFR1+MS	
22450.072	90.000	269.847	12295.997	84.794	0.000	121.525 0.	.000	84.794	0.000	0.000	121.551	46.854	91.133	XOMR2_OWSG MWD+IFR1+MS	

James Ranch Unit Apache 150H			
Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
(ft)	(ft)	(ft)	(ft)
12597.19	505434.70	656555.80	8900.00 CIRCLE
22400.07	505407.30	646287.10	8900.00 CIRCLE
22450.07	505407.20	646237.10	8900.00 CIRCLE
	Measured Depth (ft) 12597.19 22400.07	Measured Depth         Grid Northing           (ft)         (ft)           12597.19         505434.70           22400.07         505407.30	Measured Depth         Grid Northing         Grid Easting           (ft)         (ft)         (ft)           12597.19         505434.70         656555.80           22400.07         505407.30         646287.10



Page 43 of 112

Update May 2024:

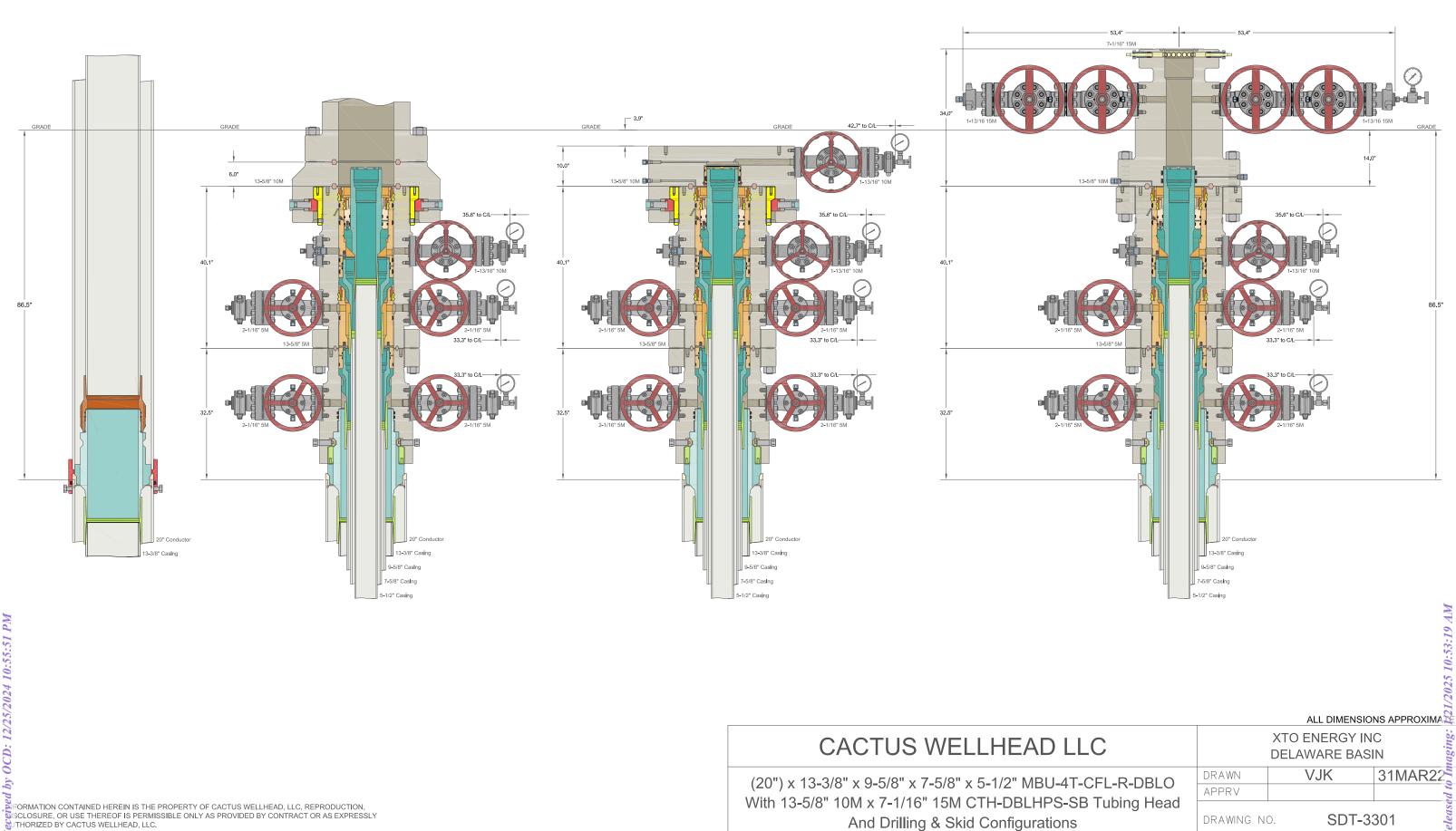
XTO is aware of the R111-Q update and will comply with these requirements including (but not limited to):

1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards

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



And Drilling & Skid Configurations

#### **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 (6393') 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.



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: www.gates.com/ollandgas

NEW CHOKE HOSE INSTALED 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.

CUSTOMER: CUSTOMER P.O.#: CUSTOMER P/N:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531) 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 #: QUANTITY: SERIAL #:	529480 1 74621 H3-012524-1
SIGNATURE	F. OUSNOS
TITLE	QUALITY ASSURANCE
DATE	1/25/2024

Page 47 of 112



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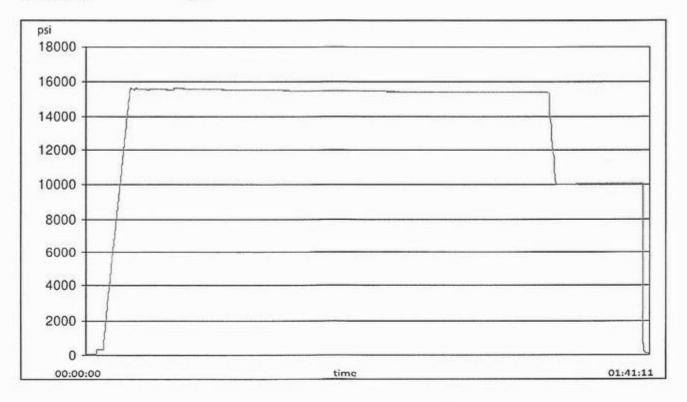
H3-15/16

# **TEST REPORT**

CUSTOMER			TEST OBJECT		
Company:	Nabors Ind	ustries Inc.	Serial number:	H3-0125	24-1
			Lot number:		
Production description:	74621/66-1	1531	Description:	74621/6	6-1531
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C C	:K
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053	3	Fitting 1:	3.0 x 4-1	l/16 10K
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 × 4-1	l/16 10K
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result	t:				

Test operator:

Travis





# **TEST REPORT**

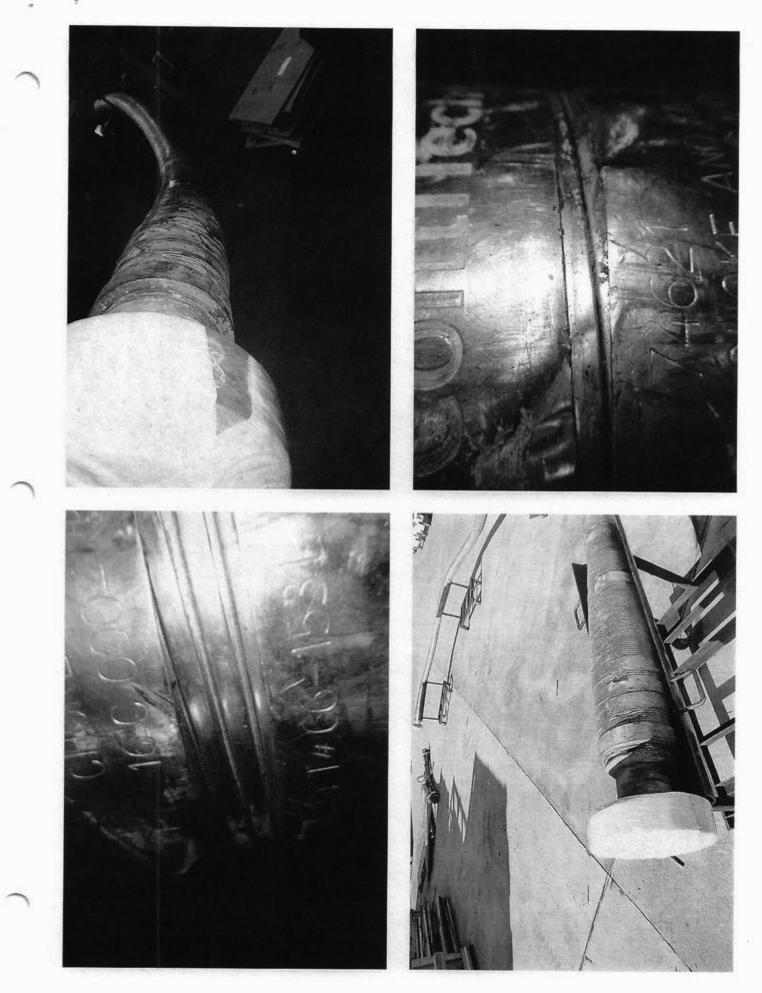
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## **GAUGE TRACEABILITY**

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

	Fil	D.I.C	 3L - + + - 7
Released to	Imaging: 1/	21/2025 10:53:19 AM	



GRADE: 16C Lipie Kin FITTING: 9. 1/16" IOK Flagge EK SN: 24621 #5547 66-55 APPROVED BY POSSIBILITY DOC#:529490 LENGTH: 45 NOTES: 00. 15582803 CUST NAME: Nadar-S H#: H3-012524-1 1.0.1

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

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

#### 1. Cement Program

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

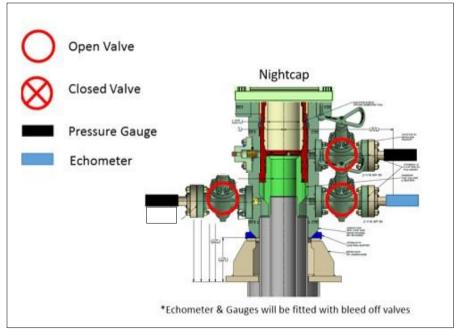
#### 2. Offline Cementing Procedure

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

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



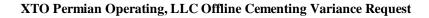
Annular packoff with both external and internal seals

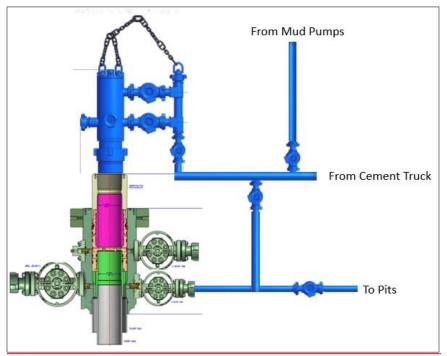


**XTO Permian Operating, LLC Offline Cementing Variance Request** 

Wellhead diagram during skidding operations

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





Wellhead diagram during offline cementing operations

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

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

Description of Operations:

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

# **TABLE OF CONTENTS**

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.

**General Provisions Permit Expiration** Archaeology, Paleontology, and Historical Sites **Noxious Weeds** Special Requirements Watershed Lesser Prairie-Chicken Timing Stipulations VRM Potash Construction Notification Topsoil Closed Loop System Federal Mineral Material Pits Well Pads Roads **Road Section Diagram Production** (Post Drilling) Well Structures & Facilities **Pipelines Electric Lines Interim Reclamation Final Abandonment & Reclamation** 

Page 1 of 21

# 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

Page 2 of 21

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.

## **Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken**:

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.

Page 3 of 21

**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.

Page 4 of 21

### 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.

Page 5 of 21

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

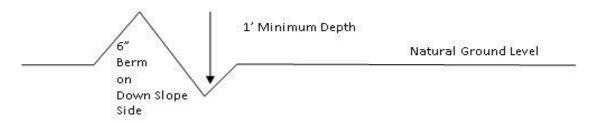
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

#### 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 %);

Page 6 of 21

#### 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  $\underline{4\%}$ 

#### Cattle guards

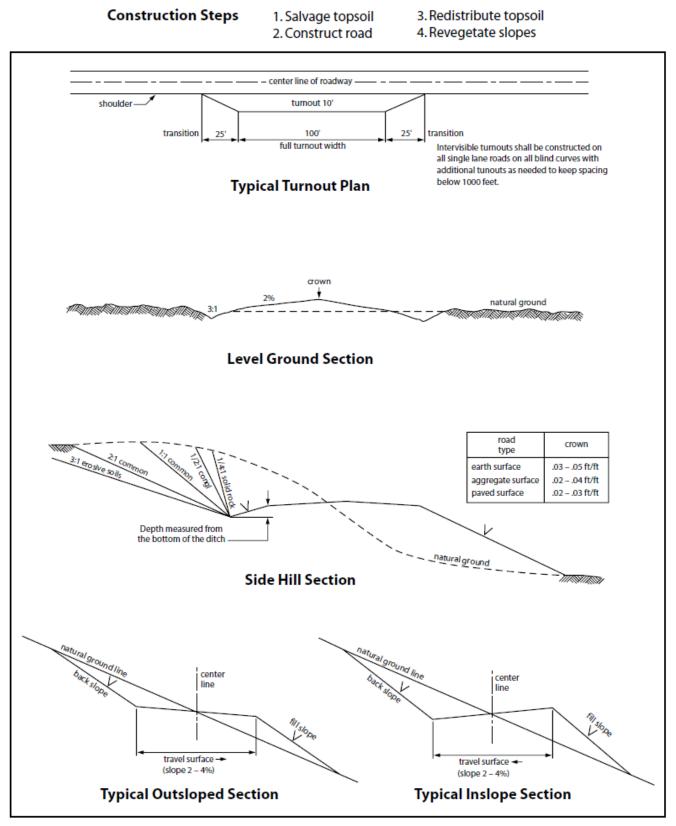
An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible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





Page 8 of 21

# 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 1 ½ 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. <u>Use a maximum netting mesh size of 1 ½ inches</u>.

# **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, <u>Shale Green</u> 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:

Page 10 of 21

- 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 <u>6</u> 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.

#### Page 11 of 21

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-ofway 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,

#### Page 12 of 21

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 <u>et seq.</u> (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, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is

Page 13 of 21

## **Approval Date: 12/19/2024**

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  $\underline{36}$  inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be  $\underline{30}$  feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> 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 <u>30</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.*)

#### Pipeline info for the 100ft MSO Corridor

8. The pipeline will be buried with a minimum cover of  $\underline{36}$  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.

#### Page 14 of 21

(*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.*)

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.

#### Approval Date: 12/19/2024

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

Page 16 of 21

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 <u>et seq</u>. (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, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) 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,

Page 17 of 21

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

Page 18 of 21

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).

Page 19 of 21

# 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.

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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  $\mathbf{x}$  percent purity  $\mathbf{x}$  percent germination = pounds pure live seed

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	ХТО
LEASE NO.:	NMNM89051
LOCATION:	Sec. 13, T.22 S, R 30 E
COUNTY:	Eddy County, New Mexico 💌
WELL NAME & NO.:	James Ranch Unit Apache 150H
SURFACE HOLE FOOTAGE:	477'/S & 863'/E
<b>BOTTOM HOLE FOOTAGE:</b>	1386'/S & 50'/W



$H_2S$	No		O Yes	
Potash /	O None	O Secretary	• R-111-Q	Open Annulus
WIPP	4-Stri	ng Design: Engineered W	esign: Engineered Weak Point	
Cave / Karst	O Low	Medium	O High	O Critical
Wellhead	Conventional	Multibowl	O Both	O Diverter
Cementing	Primary Squeeze	🗆 Cont. Squeeze	EchoMeter	DV Tool
Special Req	🗆 Capitan Reef	🗆 Water Disposal	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 **747** 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

Page 1 of 10

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.

# 2<sup>nd</sup> 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 6393'
- 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 <u>Intermediate 2</u> annulus after primary cementing stage. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid</u> <u>top in the annulus OR operator shall run a CBL from TD of the Intermediate 1 casing to</u> <u>tieback requirements listed above after the second stage BH to verify TOC.</u> Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. 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. <u>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.</u>

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).
- 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 <u>OilGasReports@wipp.ws</u>. 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**

Page 4 of 10

- 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.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2<sup>nd</sup> 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.

Page 6 of 10

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

Page 9 of 10

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 11/15/2024

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 H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - o Detection of H<sub>2</sub>S, and
  - o Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

#### Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

#### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

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

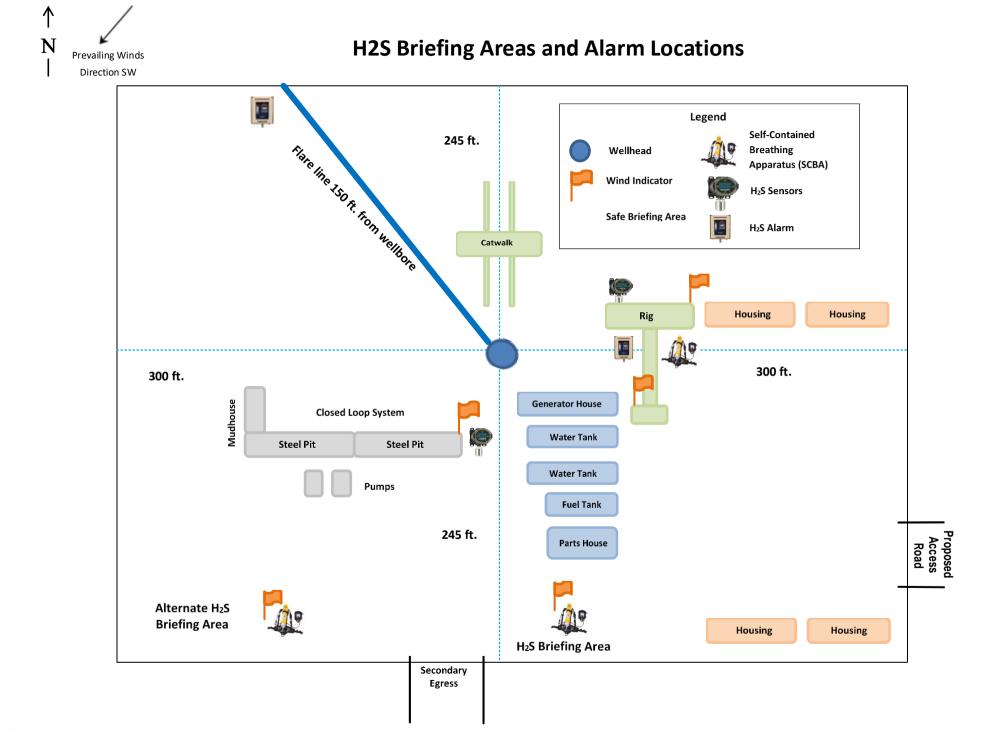
#### **Contacting Authorities**

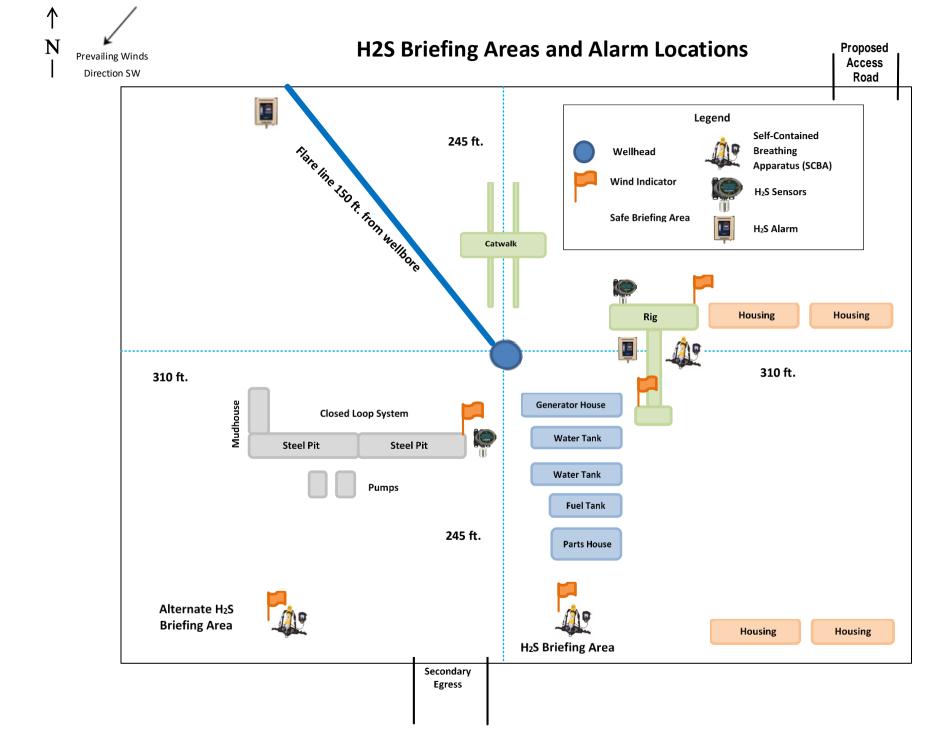
All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, 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).

•

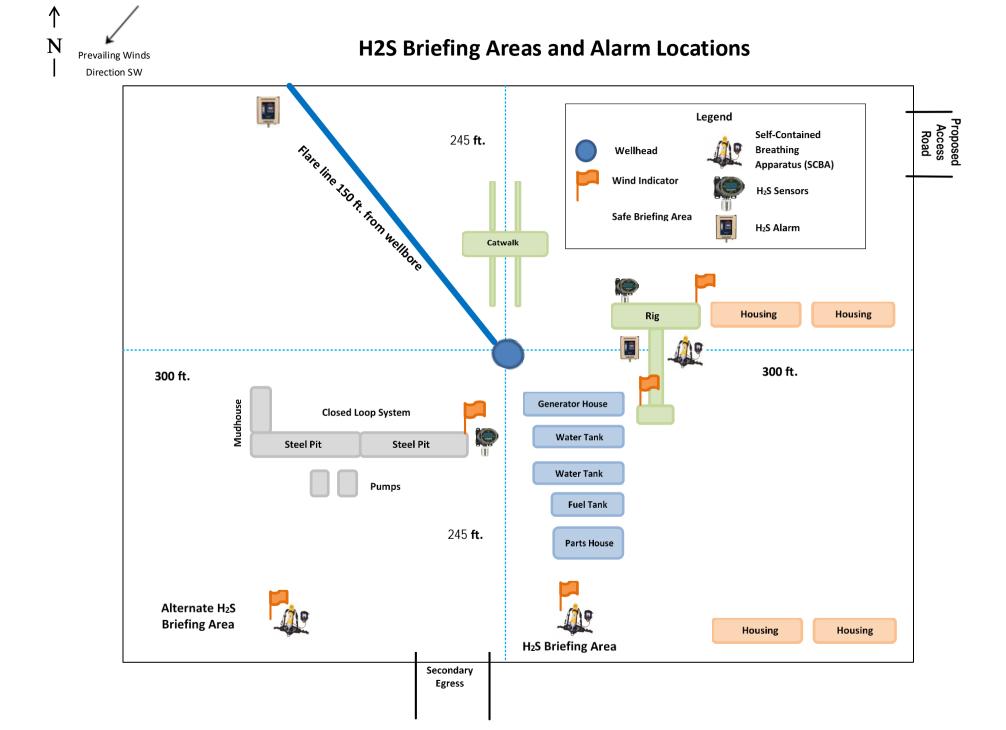
### CARLSBAD OFFICE – EDDY & LEA COUNTIES

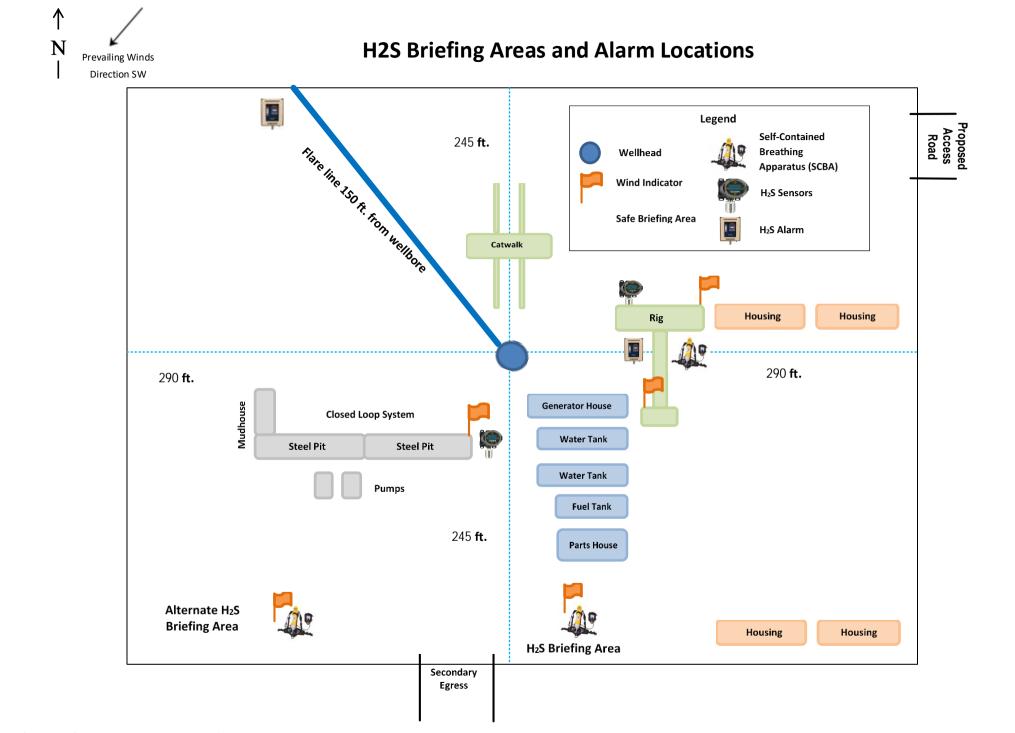
3104 E. Greene St., Carlsbad, NM 88220	
Carlsbad, NM	575-887-7329
XTO PERSONNEL: Will Dacus, Drilling Manager	832-948-5021
Brian Dunn, Drilling Supervisor	832-653-0490
Robert Bartels, Construction Execution Planner	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Frank Fuentes, Production Foreman	575-689-3363
SHERIFF DEPARTMENTS:	
Eddy County	575-887-7551
Lea County	575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS:	911
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359
HOSPITALS:	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359
AGENT NOTIFICATIONS:	
For Lea County:	
Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161
For Eddy County	
For Eddy County: Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283
The with the Aleo On Conservation Division - Artesia	575-7-6-1285





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Released to Imaging: 1/21/2025 10:53:19 AM

# Received by OCD: 12/25/2024 10:55:51 PM AFMSS SUPO Data Repo U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400101179

**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: JAMES RANCH UNIT APACHE

Well Type: CONVENTIONAL GAS WELL

# **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

JAMES\_RANCH\_UNIT\_APACHE\_150H\_Existing\_Road\_Map\_20240924060721.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

Submission Date: 09/28/2024

Well Number: 150H

Well Work Type: Drill

Page 97 of 112

12/23/2024

Highlighted data reflects the most

recent changes

Show Final Text

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Apache\_Road\_20211110051658\_20240919110426.pdf

Feet

New road type: RESOURCE

Length: 4897.61

Width (ft.): 30

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: 150H

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 lease road approximately 1.3 miles then turn right (southeast) on lease road for approximately .2miles. 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 Number: 150H

Page 99 of 112

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	n and Types of Water Supp	ly
Water Source	<b>Fable</b>	
Water source type: OTHER		
Describe type: Fresh Water		
Water source use type:	DUST CONTROL	
	SURFACE CASING	
	STIMULATION	
Source latitude:		Source
Source datum:		
Water source permit type:	PRIVATE CONTRACT	

ceived by OCD: 12/25/2024 10:55:51 F	PM	Page 100 of
perator Name: XTO PERMIAN OPE		
ell Name: JAMES RANCH UNIT AF	PACHE Well	Number: 150H
	DUST CONTROL	
	SURFACE CASING	
	STIMULATION	
Water source transport method:	TRUCKING	
Source land ownership: COMMER	RCIAL	
Source transportation land owner	ship: FEDERAL	
Water source volume (barrels): 55	50000	Source volume (acre-feet): 70.89120298
Source volume (gal): 23100000		
Water source type: OTHER		
Describe type: Raw Produced Wate	er	
Water source use type:	INTERMEDIATE/PRODUC CASING	CTION
Source latitude:		Source longitude:
Source datum:		
Water source permit type:	PRIVATE CONTRACT	
Water source transport method:	PIPELINE	
Source land ownership: COMMER	RCIAL	
Source transportation land owner	ship: FEDERAL	
Water source volume (barrels): 55	50000	Source volume (acre-feet): 70.89120298
Source volume (gal): 23100000		
Water source type: RECYCLED		
Water source use type:	INTERMEDIATE/PRODUC CASING	CTION
Source latitude:		Source longitude:
Source datum:		
Water source permit type:	PRIVATE CONTRACT	
Water source transport method:	PIPELINE	

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**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

Source volume (acre-feet): 70.89120298

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 550000

Source volume (gal): 23100000

Water source and transportation

JAMES\_RANCH\_UNIT\_APACHE\_150H\_Vicinity\_Map\_20240924060919.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. Actual water volumes used during operations will depend 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 I	nfo	
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	e:
Well casing outside diameter (in.):	Well casing insi	de diameter (in.):
New water well casing?	Used casing so	urce:
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top dept	th (ft.):
Well Production type:	Completion Met	hod:
Water well additional information:		
State appropriation permit:		
Additional information attachment:		

Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

# **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 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel Mud Boxes

Safe containmant attachment:

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

FACILITY Disposal type description:

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

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency : One Time Only

**Safe containment description:** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

#### Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIALDisposal location ownership: COMMERCIALFACILITYDisposal 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: 150H

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

#### Safe containmant attachment:

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

Disposal type description:

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

#### Waste type: GARBAGE

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

Amount of waste: 250 pounds

Waste disposal frequency : Weekly

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

#### 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: 150H

**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\_150H\_Well\_Site\_20240924061301.pdf JAMES\_RANCH\_UNIT\_APACHE\_150H\_RL\_20240924061306.pdf **Comments:** Multi-well pad.

**Section 10 - Plans for Surface Reclamation** 

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

Multiple Well Pad Number: B

#### Recontouring

618.013002.10\_XTO\_JRU\_APACHE\_DI\_PAD\_D\_INTERIM\_REC\_PAD\_LAYOUT\_FINAL\_09\_20\_2024\_20241102083209.p df 618.013002.10\_XTO\_JRU\_APACHE\_DI\_PAD\_B\_INTERIM\_REC\_PAD\_LAYOUT\_FINAL\_09\_20\_2024\_20241102083209.p

618.013002.10\_XTO\_JRU\_APACHE\_DI\_PAD\_F\_INTERIM\_REC\_PAD\_LAYOUT\_FINAL\_09\_20\_2024\_20241102083209.p

618.013002.10\_XTO\_JRU\_APACHE\_DI\_PAD\_E\_INTERIM\_REC\_PAD\_LAYOUT\_FINAL\_09\_20\_2024\_20241102083209.p df

**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: 150H

20.044999999999998

**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): 3.36	Well pad interim reclamation (acres): 10.311 Road interim reclamation (acres): 0	Well pad long term disturbance (acres): 16.685 Road long term disturbance (acres): 3.36
Powerline proposed disturbance (acres): 12.44 Pipeline proposed disturbance (acres): 45.35	Powerline interim reclamation (acres): 12.44 Pipeline interim reclamation (acres): 45.35	Powerline long term disturbance (acres): 0 Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 8.27 Total proposed disturbance: 96.416	Other interim reclamation (acres): 8.27 Total interim reclamation: 76.371	Other long term disturbance (acres): 0 Total long term disturbance:

#### **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 yucca, mesquite, American tarbush, cholla, and cresoste.

Existing Vegetation at the well pad

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

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

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

Non native seed used? N

Non native seed description:

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Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

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		Total pounds/Acre:
	Seed Type Pounds/Acre		
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.

**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: 150H

authorities will be contacted with a plan of action for approval prior to implementation.

#### Monitoring plan

Success standards: 100% compliance with applicable regulations.

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

# **Section 11 - Surface Ownership**

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

**Other Local Office:** 

**DOD 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: Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

NPS Local Office:	NPS	Local	Office:	
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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: DOD Local Office: State Local Office: Military Local Office: USFWS Local Office: USFWS 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:

Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

#### **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: USFWS Local Office: USFS Region: USFS Forest/Grassland:

**USFS Ranger District:** 

Received by OCD: 12/25/2024 10:55:51 PM

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

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 Rang

JSFS Ranger District:

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Operator Name: XTO PERMIAN OPERATING LLC Well Name: JAMES RANCH UNIT APACHE

Well Number: 150H

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

Page 15 of 15

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	415061
	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.	1/21/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/21/2025
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.	1/21/2025
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.	1/21/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	1/21/2025

Action 415061

Page 112 of 112