

## Application for Permit to Drill

# U.S. Department of the Interior Bureau of Land Management

Date Printed: 12/11/2024 10:52 AM

## **APD Package Report**

APD ID: 10400085291 Well Status: AAPD

APD Received Date: 05/23/2022 05:08 AM Well Name: JRU APACHE FEDERAL COM

Operator: XTO PERMIAN OPERATING LLC Well Number: 901H

#### **APD Package Report Contents**

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
  - -- Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
  - -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  - -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
  - -- Casing Spec Documents: 3 file(s)
  - -- Casing Taperd String Specs: 2 file(s)
  - -- Casing Design Assumptions and Worksheet(s): 4 file(s)
  - -- Hydrogen sulfide drilling operations plan: 1 file(s)
  - -- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
  - -- Other Facets: 5 file(s)
  - -- Other Variances: 3 file(s)
- SUPO Report
- SUPO Attachments
  - -- Existing Road Map: 1 file(s)
  - -- New Road Map: 1 file(s)
  - -- Attach Well map: 1 file(s)
  - -- Production Facilities map: 3 file(s)
  - -- Water source and transportation map: 1 file(s)
  - -- Well Site Layout Diagram: 2 file(s)
  - -- Recontouring attachment: 6 file(s)
  - -- Other SUPO Attachment: 4 file(s)
- PWD Report
- PWD Attachments

- -- None
- Bond Report
- Bond Attachments
  - -- None

Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT NMNM89051 APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone JRU APACHE FEDERAL COM 901H 2. Name of Operator 9. API Well No. XTO PERMIAN OPERATING LLC 30-**015-55**834 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory LOS MEDANOS/BONE SPRING 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970 (432) 683-2277 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 SEC 13/T22S/R30E/NMP At surface NESE / 2545 FSL / 817 FEL / LAT 32.391844 / LONG -103.828229 At proposed prod. zone NWNW / 990 FNL / 50 FWL / LAT 32.396686 / LONG -103.860082 12. County or Parish 14. Distance in miles and direction from nearest town or post office\* 13. State **EDDY** NM 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 817 feet location to nearest 320.0 property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20, BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 10839 feet / 21832 feet FED: COB000050 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3349 feet 01/31/2022 45 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date (Electronic Submission) STEPHANIE RABADUE / Ph: (432) 682-8873 05/23/2022 Regulatory Coordinator Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 10/28/2024 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency



(Continued on page 2)

\*(Instructions on page 2)

#### **INSTRUCTIONS**

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

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

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

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

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

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

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

#### NOTICES

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

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

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

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

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

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

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

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

#### **Additional Operator Remarks**

#### **Location of Well**

0. SHL: NESE / 2545 FSL / 817 FEL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.391844 / LONG: -103.828229 ( TVD: 0 feet, MD: 0 feet )
PPP: NWNE / 987 FNL / 2673 FWL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.39666 / LONG: -103.834246 ( TVD: 10912 feet, MD: 14200 feet )
PPP: NENE / 990 FNL / 330 FEL / TWSP: 22S / RANGE: 30E / SECTION: 13 / LAT: 32.396652 / LONG: -103.82665 ( TVD: 10937 feet, MD: 11600 feet )
BHL: NWNW / 990 FNL / 50 FWL / TWSP: 22S / RANGE: 30E / SECTION: 14 / LAT: 32.396686 / LONG: -103.860082 ( TVD: 10839 feet, MD: 21832 feet )

#### **BLM Point of Contact**

Name: PRISCILLA PEREZ

Title: Legal Instruments Examiner

Phone: (575) 234-5934

Email: PPEREZ@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.

¥g
0
22.
20
7
4
$\overline{}$
03-
0
I
$\overline{}$
90
O
Щ
$\top$
$\overline{\circ}$
⋖
ď
~
$\leq$
70
Ĩ
ĸ
6
MG.
9
$\leq$
_
90,
Ō
1
1
4
4
Ĩ.
/
Ś
<u>e</u>
Š
>
5
EDD
$\overline{a}$
1
_
닏
CHE
CHE
SHE)
APACHE
APACHE
- APACHE
APACHE
- APACHE
1.10 - APACHE
it\.10 - APACHE
nit\.10 - APACHE
Unit\.10 - APACHE
Unit\.10 - APACHE
ch Unit\.10 - APACHE
ch Unit\.10 - APACHE
anch Unit\.10 — APACHE
Ranch Unit\.10 — APACHE
Ranch Unit\.10 — APACHE
Ranch Unit\.10 — APACHE
anch Unit\.10 — APACHE
Ranch Unit\.10 — APACHE
James Ranch Unit\.10 — APACHE
2 James Ranch Unit\.10 — APACHE
02 James Ranch Unit\.10 — APACHE
2 James Ranch Unit\.10 — APACHE
02 James Ranch Unit\.10 — APACHE
02 James Ranch Unit\.10 — APACHE
02 James Ranch Unit\.10 — APACHE
NM\002 James Ranch Unit\.10 — APACHE
02 James Ranch Unit\.10 — APACHE
/ - NM\002 James Ranch Unit\.10 - APACHE
NM\002 James Ranch Unit\.10 — APACHE
/ - NM\002 James Ranch Unit\.10 - APACHE
nergy — NM\002 James Ranch Unit\.10 — APACHE
/ - NM\002 James Ranch Unit\.10 - APACHE
nergy — NM\002 James Ranch Unit\.10 — APACHE
O Energy - NM\002 James Ranch Unit\.10 - APACHE
nergy — NM\002 James Ranch Unit\.10 — APACHE
XTO Energy - NM\002 James Ranch Unit\.10 - APACHE
O Energy - NM\002 James Ranch Unit\.10 - APACHE
13 XTO Energy — NM\002 James Ranch Unit\.10 — APACHE
.013 XTO Energy - NM\002 James Ranch Unit\.10 - APACHE
13 XTO Energy — NM\002 James Ranch Unit\.10 — APACHE
18.013 XTO Energy - NM\002 James Ranch Unit\.10 - APACHE
.013 XTO Energy - NM\002 James Ranch Unit\.10 - APACHE
:\618.013 XTO Energy - NM\002 James Ranch Unit\.10 - APACHE
1P:\618.013 XTO Energy - NM\002 James Ranch Unit\.10 - APACHE
:\618.013 XTO Energy - NM\002 James Ranch Unit\.10 - APACHE
1P:\618.013 XTO Energy - NM\002 James Ranch Unit\.10 - APACHE

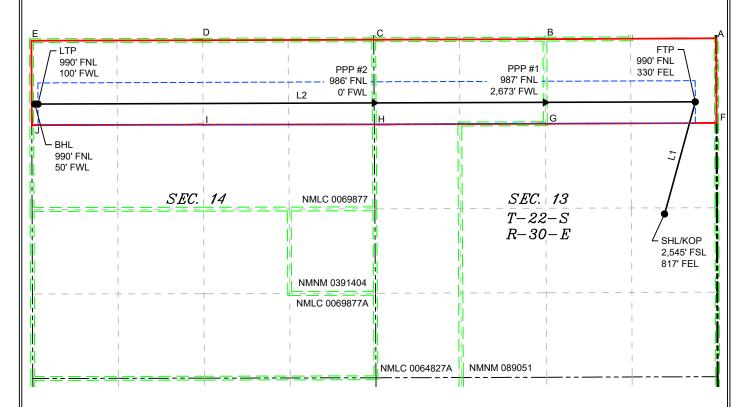
<u>C-10</u>	2				Minerals & Natur	New Mexico ural Resources Department SION DIVISION			evised July, 09 2024	
	electronically D Permitting			OI	L CONVERS	ION DIVISION				
								Submita	☑ Initial Sub	mittal
								Type:	Amended I	Report
									☐ As Drilled	
			1		WELL LOCA	TION INFORMATION				
API Nu		5-55834	Pool Code 40295			Pool Name Los Medanos;	Bone Sprir	ng		
Property	y Code 33641	4	Property N	ame	JRU APAC	Well Number CHE FEDERAL COM 901H				
OGRID	No.		Operator N	lame		Ground Level Elevation				
Surface	<b>37307</b> Owner: □S	tate   Fee	Tribal <b>⊠</b> Feo	deral	XIO PERIVIIA	Mineral Owner: S		☐Tribal 🏻		3,349'
UL	Section	Township	Dongo	Lot	Surface Ft. from N/S	ee Hole Location  Ft. from E/W	Latitude		Longitude	County
l l	13	22S	Range 30E	Lot	2,545 FSL		32.391		-103.828229	EDDY
•			002				02.001			2551
UL	Section	Township	Range	Lot	Ft. from N/S	m Hole Location  Ft. from E/W	Latitude		Longitude	County
D	14	228	30E		990 FNL	50 FWL	32.396		-103.860082	EDDY
							02.000			
Dedicat	ed Acres	Infill or Defin	ning Well	Defining	g Well API	Overlapping Spacing U	Jnit (Y/N)	Consolida	tion Code	
16	80.00	Infill				N			Р	
Order N	lumbers.	R-279-C				Well Setbacks are und	er Common O	wnership:	⊠Yes □No	
					Kick (	Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
I	13	22\$	30E		2,545 FSL	. 817 FEL	32.391	844	-103.828229	EDDY
		l	1 -		_	Cake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Α	13	22\$	30E		990 FNL	330 FEL	32.396	652	-103.826650	EDDY
UL	Section	Township	Range	Lot	Et. from N/S	Take Point (LTP)  Ft. from E/W	Latitude		Longitude	County
D	14	22S	30E		990 FNL	100 FWL	32.396		-103.859920	EDDY
	d Area or Are			Spacing U	Jnit Type : 🛛 Hori:	zontal	Groun	nd Elevation		
	IMNM-0709	965X							3,349'	
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFICA	ATIONS			
					and complete to the	I hereby certify that the w				
that this	organization	i either owns a v	vorking intere	est or unleas	directional well, sed mineral interest					
at this le	ocation pursu	ant to a contrac	t with an own	er of a work					DILLON	
		erest, or a volun etofore entered b			or a compulsory			3	PAK DILLON	TARIS
		ontal well, I furt of at least one le								\ \
unlease	d mineral inte	erest in each trac well's complete	ct (in the targ	et pool or in	nformation) in	D 23786 CO ONAL SURIV				
		order from the d				./		L'E		
$\bigcirc$	a			4 /0 4				\	SONAL S	u'/
Signatur	na Au	istin	11/1 Date	1/24		Signature and Seal of Pro	<i>V</i> fessional Surv	eyor		
U										
Jena Printed	Austin Name					MARK DILLON HARP 2378 Certificate Number		Survey	11/7/2024	
Jena.	N.Austin	@ExxonMo	obil.com							
Email A	Address									
	Note: No -	llowable will t-	accionad to 4	this commist	ion until all intone-t	have been consolidated or a	non-standa	unit has b	618.01300	
	IVINE: NO 0	aawame will be	UNIVERSAL TO T	aux campieti	will the interest	move there consolidated or a	XIANAAYA	unit has he	en annravea by th	

eleased to Imaging: 1/7/2025 4:38:04 PM

#### 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	01518'14"	1,815.58			
L2	269*48'28"	10,318.76			

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

COORDINATE TABLE								
SHL/KOI	O (NAD 83 N	ME)	SHL/KOI	O (NAD 27 N	ME)			
Y =	506,652.5	N	Y =	506,591.8	Ν			
X =	697,245.0	Е	X =	656,063.5	Е			
LAT. =	32.391844	°N	LAT. =	32.391721	°N			
LONG. =	103.828229	°W	LONG. =	103.827736	°W			
FTP (I	NAD 83 NME	)	FTP (I	NAD 27 NME	<b>:</b> )			
Y =	508,403.7	Z	Υ=	508,343.0	Ν			
X =	697,724.2	Ш	X =	656,542.8	Е			
LAT. =	32.396652	°N	LAT. =	32.396529	°N			
LONG. =	103.826650	°W	LONG. =	103.826156	°W			
PPP #1	(NAD 83 NM	E)	PPP #1	(NAD 27 NM	E)			
Y =	508,395.8	Z	Υ=	508,335.1	Ν			
X =	695,379.8	ш	X =	654,198.4	Е			
LAT. =	32.396660	°N	LAT. =	32.396537	°N			
LONG. =	103.834246	°W	LONG. =	103.833751	°W			
PPP #2	(NAD 83 NM	E)	PPP #2	(NAD 27 NM	E)			
Y =	508,386.8	Z	Υ=	508,326.1	Ν			
X =	692,706.9	ш	X =	651,525.6	Е			
LAT. =	32.396669	°N	LAT. =	32.396547	°N			
LONG. =	103.842905	°W	LONG. =	103.842411	°W			
LTP (I	NAD 83 NME	)	LTP (I	NAD 27 NME	)			
Y =	508,369.2	N	Y =	508,308.5	Ν			
X =	687,455.5	ш	X =	646,274.2	Е			
LAT. =	32.396686	°N	LAT. =	32.396563	°N			
LONG. =	103.859920	°W	LONG. =	103.859424	°W			
BHL (I	NAD 83 NME	)	BHL (I	NAD 27 NME	.)			
Y =	508,369.1	Ν	Y =	508,308.4	Ν			
X =	687,405.5	Е	X =	646,224.2	E			
Λ-	007,400.0	°N	Λ-	070,227.2	_			

LONG. = 103.860082 °W LONG. = 103.859586 °W

CORNER COORDINATES (NAD 83 NME)								
A - Y =	509,395.5	Ν	A - X =	698,049.7	Е			
B - Y =	509,382.9	Ν	B - X =	695,374.2	Е			
C - Y =	509,372.8	N	C - X =	692,700.3	Е			
D - Y =	509,366.4	N	D - X =	690,027.8	Е			
E-Y=	509,359.9	N	E - X =	687,353.5	Е			
F - Y =	508,072.9	Ν	F - X =	698,055.8	Е			
G-Y=	508,062.1	N	G - X =	695,381.7	Е			
H - Y =	508,052.6	N	H - X =	692,709.2	Е			
I - Y =	508,046.7	N	I - X =	690,034.9	Е			
J-Y=	508,040.4	Ν	J - X =	687,358.6	Е			
COF	RNER COOR	DIN	ATES (NA	AD 27 NME)				
A - Y =	509,334.8	Ζ	A - X =	656,868.3	Е			
B - Y =	509,322.2	Ν	B - X =	654,192.9	Е			
C - Y =	509,312.1	Ν	C - X =	651,519.0	Е			
D - Y =	509,305.6	Ν	D - X =	648,846.5	Е			
E-Y=	509,299.2	N	E - X =	646,172.2	Е			
F-Y=	508,012.2	Ν	F - X =	656,874.3	Е			
G-Y=	508,001.4	Ν	G - X =	654,200.3	Е			
H - Y =	507,991.9	Ν	H - X =	651,527.8	Е			
I - Y =	507,986.0	N	I - X =	648,853.5	Е			
J-Y=	507,979.7	Ν	J - X =	646,177.3	Е			

DN 618.013002.10-44

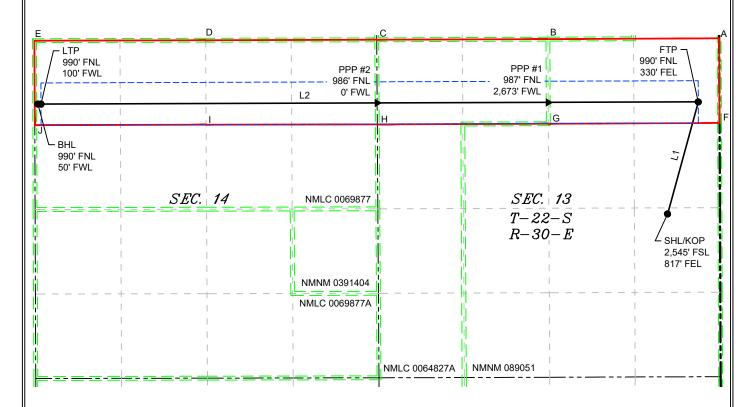
б
₹
φ.
2022.
20
4-2
~
1
03
_
$\equiv$
90
H
∢
ΔD
≯
Ż
CLIE
J
_
_TO-CI
9
≶
9
I
9
0
1
4
4
_
/ells
We∥
>
$\succeq$
$\Box$
-
□
빞
ΑC
à
⋖
1
0
Γ.
<u>:</u>
$\overline{\Box}$
ر
S.
anc
ĕ
e S
mes
þ
٠.
002
Ŏ,
≤
Z
1
~
g.
ā
-
Ē Ш
XT0
13 XTO
.013 XTO
8.013 XTO
\618.013 XTO
:\618.013 XTO
P:\618.013 XTO
\618.013 XTO

C-10	_	,				w Mexico ral Resources Department ION DIVISION	t	Revised July, 09 20			
	electronically D Permitting								☑ Initial Sub	nittal	
								Submital	Amended I		
								Type:		Xeport	
									☐ As Drilled		
			1		WELL LOCA	TION INFORMATION					
API Nu	30-01	5-55834	Pool Code 97905			Pool Name Wildcat G-07 S	S223021G;	Bone Sp	ring		
Property	y Code 33641	4	Property N	ame	JRU APAC	HE FEDERAL COM  Well Number  901H					
OGRID	No. <b>37307</b>	<b>'</b> 5	Operator N	ame	XTO PERMIA	AN OPERATING, LLO	C.		Ground Level	Elevation	
Surface	Owner: S	State Fee	Tribal ⊠Fed	deral		Mineral Owner: S	State Fee [	☐Tribal 🔼	Federal		
					Surfac	ee Hole Location					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County	
ı	13	22S	30E		2,545 FSL	. 817 FEL	32.391	844 -	103.828229	EDDY	
					P. #	W.1.7					
JL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County	
D	14	228	30E		990 FNL	50 FWL	32.396		103.860082	EDDY	
								-			
 Dedicat	ed Acres	Infill or Defin	ning Well	Definin	g Well API	Overlapping Spacing	Unit (Y/N)	Consolidati	ion Code		
16	60.00	Infill				N		F	<b>5</b>		
Order N	Jumbers.	R-279-C				Well Setbacks are und	ler Common O	wnership:	ĭ Yes ☐ No		
					Kick (	Off Point (KOP)					
JL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County	
ı	13	228	30E		2,545 FSL	. 817 FEL	32.391	844 -	103.828229	EDDY	
					First T	Take Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County	
A	13	228	30E		990 FNL	330 FEL	32.396	652 -	103.826650	EDDY	
					Last T	ake Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County	
D	14	22\$	30E		990 FNL	100 FWL	32.396	- 686	103.859920	EDDY	
Initize	d Area or Are	ea of Interest	•		•		Grour	nd Elevation			
	NMNM-070			Spacing U	Jnit Type : Hori	zontal  Vertical	Ground Elevation  3,349'				
)PFR ^	TOR CERTI	FICATIONS				SURVEYOR CERTIFIC	CATIONS				
			contained L.	ain is twee	and complete to 41.			lown on the	nlat was platted	rom field notes of	
est of r	ny knowledge	e and belief, and	l, if the well is	vertical or	and complete to the directional well,	I hereby certify that the v actual surveys made by n	ne or under my				
n the la	and including		ottom hole loc	ation or ha	sed mineral interest s a right to drill this king interest or		venej				
ınlease	d mineral inte	iant to a contrac erest, or a volun etofore entered l	tary pooling a	igreement o				6	K DILLOW	YARIS	
	-	eiojore enierea i ontal well, I furt			nization has			180	HEN MEXICO	78	
eceivea	d the consent	oniai weii, 1 juri of at least one le erest in each tra	essee or owner	r of a work	ing interest or	23786 CONAL SURIE					
vhich a	ny part of the	e well's complete order from the d	ed interval wil					Box			
4		<u>.</u>				.1/	11/	L.O.	8,5	NA YOR	
							///		ONAL S		
$\bigcap_{a}$	Osna Austin 11/11/24 Signature Date					Signature and Seal of Pro	ofessional Surv	eyor			
Je. Signatur	<u>na Ai</u>		Date			Signature and Sear of Fre					
			Date								
	Austin		Date			MARK DILLON HARP 2378 Certificate Number		Survey	11/7/2024		
Jena Printed	Austin Name	@ExxonM				MARK DILLON HARP 2378		f Survey	11/7/2024		
Jena Printed Jena.	Austin Name					MARK DILLON HARP 2378		f Survey	11/7/2024		

#### 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	01518'14"	1,815.58			
L2	269*48'28"	10,318.76			

LEGEND

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

	COORDINATE TABLE							
SHL/KOI	(NAD 83 N	ME)	SHL/KOI	(NAD 27 N	ME)			
Y =	506,652.5	Ν	Y =	506,591.8	Ν			
X =	697,245.0	Е	X =	656,063.5	Е			
LAT. =	32.391844	°N	LAT. =	32.391721	°N			
LONG. =	103.828229	°W	LONG. =	103.827736	°W			
FTP (I	NAD 83 NME	()	FTP (I	NAD 27 NME	)			
Y =	508,403.7	N	Y =	508,343.0	N			
X =	697,724.2	Е	X =	656,542.8	Е			
LAT. =	32.396652	°N	LAT. =	32.396529	°N			
LONG. =	103.826650	°W	LONG. =	103.826156	°W			
PPP #1	(NAD 83 NM	E)	PPP #1	(NAD 27 NM	E)			
Y =	508,395.8	N	Y =	508,335.1	N			
X =	695,379.8	Е	X =	654,198.4	Е			
LAT. =	32.396660	°N	LAT. =	32.396537	°N			
LONG. =	103.834246	°W	LONG. =	103.833751	°W			
PPP #2	(NAD 83 NM	E)	PPP #2	(NAD 27 NM	E)			
Y =	508,386.8	N	Y =	508,326.1	N			
X =	692,706.9	Е	X =	651,525.6	Е			
LAT. =	32.396669	°N	LAT. =	32.396547	°N			
LONG. =	103.842905	°W	LONG. =	103.842411	°W			
LTP (I	NAD 83 NME	<u>.</u> )	LTP (I	NAD 27 NME	)			
Y =	508,369.2	N	Y =	508,308.5	Ν			
X =	687,455.5	Е	X =	646,274.2	Е			
LAT. =	32.396686	°N	LAT. =	32.396563	°N			
LONG. =	103.859920	°W	LONG. =	103.859424	°W			
BHL (	NAD 83 NME	:)	BHL (I	NAD 27 NME	:)			
Y =	508,369.1	N	Y =	508,308.4	N			
X =	687,405.5	Е	X =	646,224.2	Е			
LAT. =	32.396686	°N	LAT. =	32.396564	°N			

LONG. = 103.860082 °W LONG. = 103.859586 °W

CORNER COORDINATES (NAD 83 NME)									
A - Y =	509,395.5	Ν	A - X =	698,049.7	Е				
B - Y =	509,382.9	Ν	B - X =	695,374.2	Е				
C - Y =	509,372.8	Ν	C - X =	692,700.3	Е				
D - Y =	509,366.4	N	D - X =	690,027.8	Е				
E - Y =	509,359.9	Ν	E - X =	687,353.5	Е				
F - Y =	508,072.9	Ν	F - X =	698,055.8	Е				
G-Y=	508,062.1	Ν	G-X=	695,381.7	Е				
H - Y =	508,052.6	Ν	H - X =	692,709.2	Е				
I - Y =	508,046.7	Ν	I - X =	690,034.9	Е				
J - Y =	508,040.4	Ν	J - X =	687,358.6	Е				
COF	RNER COOR	RDIN	ATES (NA	AD 27 NME)					
				,					
A - Y =	509,334.8	Ν	A - X =	656,868.3	Е				
A - Y = B - Y =	509,334.8 509,322.2		_		E E				
		N	A - X =	656,868.3					
B - Y =	509,322.2	N N	A - X = B - X =	656,868.3 654,192.9	E				
B - Y = C - Y =	509,322.2 509,312.1	N N N	A - X = B - X = C - X =	656,868.3 654,192.9 651,519.0	E E				
B - Y = C - Y = D - Y =	509,322.2 509,312.1 509,305.6	N N N	A - X = B - X = C - X = D - X =	656,868.3 654,192.9 651,519.0 648,846.5	E E				
B - Y = C - Y = D - Y = E - Y =	509,322.2 509,312.1 509,305.6 509,299.2	X X X X	A - X = B - X = C - X = D - X = E - X =	656,868.3 654,192.9 651,519.0 648,846.5 646,172.2	шшшш				
B - Y = C - Y = D - Y = E - Y = F - Y =	509,322.2 509,312.1 509,305.6 509,299.2 508,012.2	N N N N	A - X = B - X = C - X = D - X = E - X = F - X =	656,868.3 654,192.9 651,519.0 648,846.5 646,172.2 656,874.3	E E E				
B-Y= C-Y= D-Y= E-Y= F-Y= G-Y=	509,322.2 509,312.1 509,305.6 509,299.2 508,012.2 508,001.4	N N N N N	A - X = B - X = C - X = D - X = E - X = F - X = G - X =	656,868.3 654,192.9 651,519.0 648,846.5 646,172.2 656,874.3 654,200.3					

DN 618.013002.10-44

#### State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

#### NATURAL GAS MANAGEMENT PLAN

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

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

I. Operator: X10 PERMIAN OPERATING, LLC	OGRID: 37/307/5	<b>Date:</b> 08/19/2024	
<b>II. Type:</b> ⊠ 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	24 220 205	FNL, 829	600		2500		5000	
James Ranch	TBD	24 22S 30E	FEL	600	400	2500	4500	5000	200
Unit Apache			2228 FSL,		100		1500		200
135H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch	עמו	24 223 30E	6/1 FEL	000	100	2300	1500	3000	200
Unit Apache			2227 FSL,		100		1300		200
136H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch	TBB	2122530E	J/TTEE	000	100	2300	1500	3000	200
Unit Apache			2257 FSL,		100		1300		200
137H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2167 FSL,						
138H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2258 FSL,						
139H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2288 FSL,						
140H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2197 FSL,						
141H	TBD	24 22S 30E	971 FEL	600		2500		5000	

James Ranch					100		1500		200
Unit Apache			419 FSL,		100		1300		200
131H	TBD	24 22S 30E	890 FEL	600		2500		5000	
James Ranch			200 507		100		1500		200
Unit Apache 132H	TBD	24 22S 30E	389 FSL, 889 FEL	600		2500		5000	
James Ranch	עסז	24 223 30E	007 FEL	000	100	2300	1500	3000	200
Unit Apache			359 FSL,				1330		
133H	TBD	24 22S 30E	889 FEL	600		2500		5000	
James Ranch			220 EGI		100		1500		200
Unit Apache 134H	TBD	24 22S 30E	329 FSL, 889 FEL	600		2500		5000	
James Ranch	TDD	24 223 30E		000	200	2300	1400	3000	400
Unit Apache		13 22S 30E	2576 FSL, 867 FEL						
111H	TBD		80/ FEL	2000		5000		7000	
James Ranch		12 220 205	2516 FSL,		200		1400		400
Unit Apache 112H	TBD	13 22S 30E	868 FEL	2000		5000		7000	
James Ranch	TDD		44.6 77.77	2000	200	3000	1400	7000	400
Unit Apache		13 22S 30E	416 FSL,						
113H	TBD		962 FEL	2000		5000		7000	
James Ranch		24 220 205	350 FNL,		200		1400		400
Unit Apache 114H	TBD	24 22S 30E	949 FEL	2000		5000		7000	
James Ranch	100			2000	200	3000	1400	7000	400
Unit Apache		24 22S 30E	408 FNL,		200		1100		
115H	TBD		848 FEL	2000		5000		7000	
James Ranch		12 22 2 2 2 2	2577 FSL,		100		1300		400
Unit Apache 701H	TBD	13 22S 30E	967 FEL	1000		2000		4500	
James Ranch	ושמו			1000	100	2000	1300	4300	400
Unit Apache		13 22S 30E	2517 FSL,		100		1500		1400
702H	TBD		968 FEL	1000		2000		4500	
James Ranch			2486 FSL,		100		1300		400
Unit Apache 703H	TBD	13 22S 30E	868 FEL	1000		2000		4500	
James Ranch	100			1000	100	2000	1300	4300	400
Unit Apache		13 22S 30E	2547 FSL,		100		1300		
704H	TBD		967 FEL	1000		2000		4500	
James Ranch		12 220 200	2487 FSL,		100		1300		400
Unit Apache 705H	TBD	13 22S 30E	968 FEL	1000		2000		4500	
James Ranch	TDD			1000	100	2000	1300	4300	400
Unit Apache		13 22S 30E	2456 FSL, 869 FEL						
706H	TBD		809 FEL	1000		2000		4500	
James Ranch		24 225 205	320 FNL,		100		1300		400
Unit Apache 707H	TBD	24 22S 30E	950 FEL	1000		2000		4500	
James Ranch	TDD		200 7777	1000	100	2000	1300	4500	400
Unit Apache		24 22S 30E	380 FNL, 949 FEL						, , , ,
708H	TBD		747 FEL	1000		2000		4500	
James Ranch		24 220 205	348 FNL,		100		1300		400
Unit Apache 709H	TBD	24 22S 30E	849 FEL	1000		2000		4500	
James Ranch	עפו		44.0 ====	1000	100	2000	1300	7300	400
Unit Apache		24 22S 30E	410 FNL, 948 FEL						
710H	TBD		940 FEL	1000		2000		4500	
James Ranch		24 220 205	318 FNL,		100		1300		400
Unit Apache 711H	TBD	24 22S 30E	850 FEL	1000		2000		4500	
James Ranch	עטו			1000	100	2000	1000	7300	300
Unit Apache		13 22S 30E	2546 FSL,		1 - 3 5				
801H	TBD		867 FEL	2000		6000		7000	
James Ranch		12 222 225	446 FSL,		100		1000		300
Unit Apache 802H	TBD	13 22S 30E	963 FEL	2000		6000		7000	
002П	ממז	<u> </u>		2000		1 0000	1	/000	1

James Ranch		10.000.000	476 FSL,		100		1000		300
Unit Apache 803H	TBD	13 22S 30E	963 FEL	2000		6000		7000	
James Ranch			378 FNL,		100		1000		300
Unit Apache		24 22S 30E	849 FEL						
804H	TBD		0.9122	2000		6000		7000	
James Ranch Unit Apache		13 22S 30E	2457 FSL,		200		1100		500
901H	TBD	13 223 30E	969 FEL	2000		5000		8000	
James Ranch			500 ECI		200		1100		500
Unit Apache		13 22S 30E	506 FSL, 964 FEL						
902H	TBD		JOTILL	2000		5000		8000	
James Ranch		13 22S 30E	386 FSL,		200		1100		500
Unit Apache 903H	TBD	13 228 30E	962 FEL	2000		5000		8000	
James Ranch	100		440 ENI	2000	200	2000	1100	0000	500
Unit Apache		24 22S 30E	440 FNL, 948 FEL						
904H	TBD		946 FEL	2000		5000		8000	
James Ranch		24 225 205	2287 FSL,		200		1100		500
Unit Apache 906H	TBD	24 22S 30E	971 FEL	2000		5000		8000	
James Ranch	TBD			2000	100	3000	1000	8000	300
Unit Apache	122		909 FEL,				1000		
805H		24 22S 30E	1526 FNL	2000		6000		7000	
James Ranch	TBD				200		1400		400
Unit Apache		24 225 205	909 FEL,	2000		5000		7000	
James Ranch	TBD	24 22S 30E 24 22S 30E	1556 FNL	2000	200	3000	1100	7000	500
Unit Apache	IDD	24 225 30L	908 FEL,		200		1100		300
905H			1616 FNL	2000		5000		8000	
James Ranch	TBD	24 22S 30E			100		1000		300
Unit Apache			906 FEL,	2000		6000		7000	
James Ranch	TBD	24 22S 30E	1646 FNL	2000	200	6000	1400	7000	400
Unit Apache	100	24 223 30E	907 FEL,		200		1400		400
117H			1676 FNL	2000		5000		7000	
James Ranch	TBD	24 22S 30E			200		1100		500
Unit Apache			930 FEL,	2000		<b>5</b> 000		0000	
907H	TDD	24 229 205	389 FSL	2000	100	5000	1000	8000	200
James Ranch Unit Apache	TBD	24 22S 30E	929 FEL,		100		1000		300
807H			359 FSL	2000		6000		7000	
James Ranch	TBD	24 22S 30E			100		1000		300
Unit Apache			929 FEL,						
808H			329 FSL	2000		6000		7000	

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

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

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

James Ranch	Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 138H  James Ranch Apache 139H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 140H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 141H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 131H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 132H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 133H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 134H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 111H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 112H	Unit	TBD	TBD	TBD	TBD	TBD	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	TBD
James Ranch Apache 707H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 708H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 709H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 710H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 711H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 801H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 802H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 803H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 804H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 901H	Unit	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Apache 902H	Unit	TBD			TBD	TBD	TBD
James Ranch Apache 903H James Ranch	Unit Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 904H		TBD					
James Ranch Apache 906H	Unit	TBD	TBD	TBD	TBD	TBD	TBD

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

VI. Separation Equipment: 

Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: 

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

VIII. Best Management Practices: 

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

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

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

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

#### IX. Anticipated Natural Gas Production:

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

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

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

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

XII. Line Capacity. The natural	gas gathering system 🗆 will 🗆	will not have capacity to	o gather 100% of the	e anticipated natural g	as
production volume from the well	prior to the date of first product	ion.			

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

Į	╝,	Attach	ı C	operator'	s p	lan tc	manage	produ	ection	in res	ponse 1	to t	he	increased	lin	e pressui	æ

XIV. Confidentiality: $\square$ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the info	rmation 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:

☑ 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

☐ 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. ☐ 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:

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

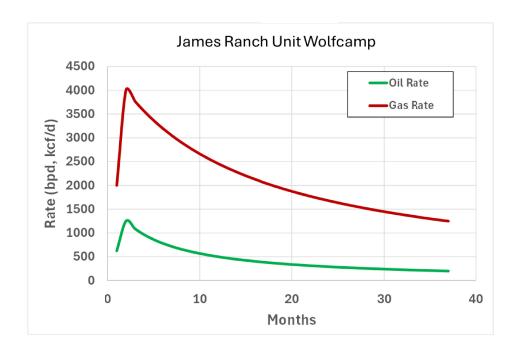
## **Section 4 - Notices**

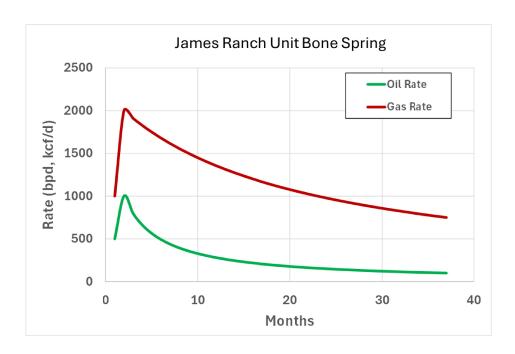
- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production 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:	LPAL .
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 A	pproval:

#### JRU Decline Curves – Wolfcamp and Bone Spring





#### VI. Separation Equipment:

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

#### VII. Operational Practices

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

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

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

#### VIII. Best Management Practices during Maintenance

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



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

Well Name: JRU APACHE FEDERAL COM

## **Drilling Plan Data Report** 11/07/2024

APD ID: 10400085291

Submission Date: 05/23/2022

Highlighted data reflects the most recent changes

**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Number: 901H

Well Type: OIL WELL

Well Work Type: Drill

**Show Final Text** 

#### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14396176	QUATERNARY	3349	0	0	ALLUVIUM	USEABLE WATER	N
14396183	RUSTLER	2894	455	455	SANDSTONE, SILTSTONE	USEABLE WATER	N
14396178	SALADO	2602	747	747	SALT	POTASH	N
14396179	BASE OF SALT	-253	3602	3602	SALT	POTASH	N
14396180	DELAWARE	-512	3861	3861	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14396187	BRUSHY CANYON	-3254	6603	6603	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14396181	BONE SPRING	-4412	7761	7761	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14396185	BONE SPRING 1ST	-5452	8801	8801	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14396186	BONE SPRING 2ND	-6182	9531	9531	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y
14396188	BONE SPRING 3RD	-7532	10881	10881	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

#### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M Rating Depth: 10839

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

#### Requesting Variance? YES

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

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

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

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

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

5MCM\_20240723195435.pdf

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

Apache\_5MBOP\_20211110052936.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	722	0	722	3349	2627	722	J-55	54.5	BUTT	3.46	2.31	DRY	21.6 8	DRY	21.6 8
2	INTERMED IATE	12 <u>.</u> 2 5	9.625	NEW	API	N	0	3702	0	3667	3344	-318	3702	J-55	40	BUTT	2.14	1.39	DRY	4.25	DRY	4.25
3	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	10015	0	9802	0	-6453	10015	L-80	29.7	FJ	2.66	1.93	DRY	2.2	DRY	2.2
	PRODUCTI ON	6.75	5.0	NEW	NON API	Υ	0	21832	0	10839	3344	-7490	21832	P- 110	18	OTHER - Freedom HTQ/Talon HTQ	2.26	1.16	DRY	7.63	DRY	7.63

#### **Casing Attachments**

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Casing ID: 1 String SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

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

Apache\_901H\_Csg\_20220511215418.pdf

Casing ID: 2

String

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Apache\_901H\_Csg\_20220511215233.pdf

Casing ID: 3

String

**INTERMEDIATE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Apache\_901H\_Csg\_20220511215446.pdf

Casing Design Assumptions and Worksheet(s):

Apache\_901H\_Csg\_20220511215500.pdf

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

#### **Casing Attachments**

Casing ID: 4 String PRODUCTION

**Inspection Document:** 

#### **Spec Document:**

Freedom\_semi\_premium\_5.5\_production\_casing\_20240723195531.pdf

Talon\_\_\_semiflush\_5.5\_production\_casing\_20240723195531.pdf

USS\_Freedom\_Production\_Casing\_5\_inch\_spec\_sheet\_20240801072313.pdf

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

Apache\_901H\_Csg\_20220511215303.pdf

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

Apache\_901H\_Csg\_20220511215331.pdf

#### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives	
SURFACE	Lead	0	0	722	310	1.87	12.9	579.7	100	EconoCem- HLTRRC	None	
SURFACE	Tail		0	722	300	1.35	14.8	405	100	Class C	2% CaCL	
INTERMEDIATE	Lead		0	3702	1530	1.39	12.9	2126. 7	100	С	None	
INTERMEDIATE	Tail		0	3702	130	1.35	14.8	175.5	100	С	2% CaCl	
INTERMEDIATE	Lead		3502	6603	310	1.35	14.8	418.5	100	Class C	None	
INTERMEDIATE	Tail		6603	1001 5	390	1.33	14.8	518.7	100	Class C	None	
PRODUCTION	Lead		9515	1070 0	40	2.69	11.5	107.6	30	NeoCem	None	
PRODUCTION	Tail		1070 0	2183 2	1060	1.51	13.2	1600. 6	30	VersaCem	None	

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

### **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	722	WATER-BASED MUD	8.7	9.2							
722	3861	SALT SATURATED	10.5	11							
3861	1001 5	OTHER : BDE/OBM	9	9.5							
1001 5	2183 2	OIL-BASED MUD	10.5	11							

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

#### Section 6 - Test, Logging, Coring

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

Mud Logger: Mud Logging Unit (2 man) below intermediate casing. Open hole logging will not be done on this well.

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

CEMENT BOND LOG, DIRECTIONAL SURVEY, GAMMA RAY LOG, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

#### Coring operation description for the well:

No Coring Operations for Well

#### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 5972 Anticipated Surface Pressure: 3565

**Anticipated Bottom Hole Temperature(F): 195** 

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 20240801072601.pdf

#### Section 8 - Other Information

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

Apache\_901H\_DD\_20220511215711.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:

Apache\_901H\_Cmt\_20240515144701.pdf

Apache\_H2S\_Dia\_20240723200046.pdf

Apache\_MBS\_20240723200048.pdf

Apache\_Rig\_Layout\_901H\_20240801072624.pdf

4\_String\_Wellbore\_diagram\_with\_pop\_valve\_and\_engineered\_weak\_point\_20240821114131.pdf

#### Other Variance attachment:

Offline\_Cement\_Variance\_Surf\_\_\_Interm\_Csg\_20240723200211.pdf

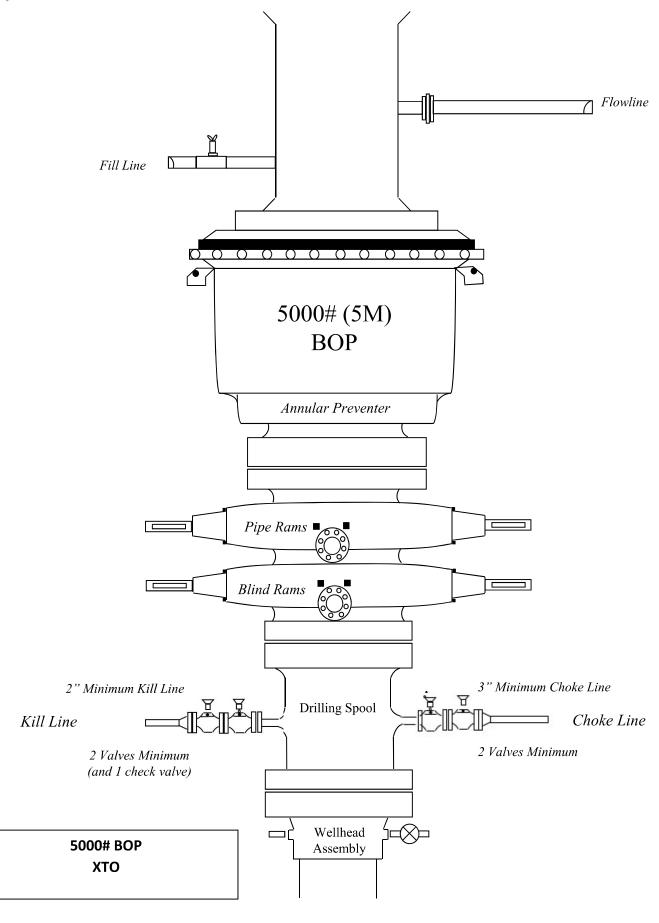
Spudder Rig Request 20240801072638.pdf

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Updated\_Flex\_Hose\_20240801072638.pdf

(Bleed line) To Flare 150' 5M Choke Manifold Diagram 2haker **Mud Tanks** XT0 Mud-Gas Separator Bleed line to burn area (150′) (Not connected to buffer tank) **Buffer Tank** 40'-50' from **Mud Tanks** wellbore To mud gas separator 3" Minimum To mud gas separator 2" Minimum 2" Minimum Isolation Valve Choke Isolation Choke Valve Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.

Adiustable Adjustable REMOTELY OPERATED Adjustable Choke Choke min. min. (Required) HCR HCR Valve is required **Drilling Operations Choke Manifold BOP Outlet 5M** Service B



## **Casing Assumptions**

Casii	ng Design									
	Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
	17.5	0' - 722'	13.375	54.5	J-55	втс	New	2.31	3.46	21.68
	12.25	0' - 3702'	9.625	40	J-55	BTC	New	1.39	2.14	4.25
	8.75	0' - 3802'	7.625	29.7	RY P-110	Flush Joint	New	2.65	2.79	1.88
	8.75	3802' – 10015'	7.625	29.7	HC L-80	Flush Joint	New	1.93	2.66	2.20
	6.75	0' - 9915'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.69	2.23
	6.75	9915' - 10900'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.44	6.14
	6.75	10900' - 21832'	5	18	RY P-110	Semi-Premium	New	1.16	2.26	7.63



## **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>

O i i ai a o to i o ti c	Ondraoteriotice of Figure 202												
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration								
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm								
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = I	2 ppm	N/A	1000 ppm								

#### Contacting Authorities

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

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

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL: Will Dacus, Drilling Manager Brian Dunn, Drilling Supervisor Robert Bartels, Construction Execution Planner Andy Owens, EH & S Manager Frank Fuentes, Production Foreman	832-948-5021 832-653-0490 406-478-3617 903-245-2602 575-689-3363
SHERIFF DEPARTMENTS:	
Eddy County	575-887-7551
Lea County	575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS:	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 New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
P. FIL C. 4	
For Eddy County:  Bureau of Land Management Corlabad	575-234-5972
Bureau of Land Management - Carlsbad New Mexico Oil Conservation Division - Artesia	575-748-1283
New Mexico On Conservation Division - Altesia	3/3-/70-1203



## **XTO Energy**

Eddy County, NM (NAD-27)
JRU APACHE FEDERAL COM
901H

Wellbore #1

**Plan: PERMIT** 

## **Standard Planning Report**

19 March, 2022



#### Planning Report

Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27) JRU APACHE FEDERAL COM Site:

Well: 901H Wellbore: Wellbore #1 Design: **PERMIT** 

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 901H

RKB = 32' @ 3381.00usft (TBD) RKB = 32' @ 3381.00usft (TBD)

Minimum Curvature

Project Eddy County, NM (NAD-27)

Map System: Geo Datum:

Site

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

Map Zone: New Mexico East 3001

JRU APACHE FEDERAL COM

Site Position: Northing: 506,623.30 usft 32.3918094 Latitude: -103.8280898 From: Мар Easting: 655,954.00 usft Longitude:

**Position Uncertainty:** 0.00 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 

0.27

Well 901H

**Well Position** +N/-S -31.40 usft Northing: 506,591.90 usft Latitude: 32.3917217

Easting: +E/-W 109.60 usft 656,063.60 usft Longitude: -103.8277353 **Position Uncertainty** 0.00 usft Wellhead Elevation: 0.00 usft **Ground Level:** 3,349.00 usft

Wellbore #1 Wellbore

Dip Angle **Declination Field Strength** Magnetics **Model Name Sample Date** (°) (°) (nT) 03/19/22 IGRF2020 6.59 59.99 47.488

Design **PERMIT** 

**Audit Notes:** 

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

**Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction

(usft) (usft) (usft) (°) 269.81 0.00 0.00 0.00

Plan Sections	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,682.93	13.66	32.98	2,676.48	67.96	44.10	2.00	2.00	0.00	32.98	
10,532.71	13.66	32.98	10,304.27	1,622.84	1,053.17	0.00	0.00	0.00	0.00	
11,512.34	90.55	269.81	10,938.00	1,751.10	479.20	10.00	7.85	-12.57	-122.32	901H FTP/ LP
21,781.57	90.55	269.81	10,839.48	1,716.57	-9,789.50	0.00	0.00	0.00	0.00	901H LTP
21,831.57	90.55	269.81	10,839.00	1,716.40	-9,839.50	0.00	0.00	0.00	0.00	901H BHL: 990' FN



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: JRU APACHE FEDERAL COM

Well: 901H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 901H

RKB = 32' @ 3381.00usft (TBD)

RKB = 32' @ 3381.00usft (TBD)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
455.00	0.00	0.00	455.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
747.00	0.00	0.00	747.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado/To <sub>l</sub>									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	32.98	2,099.98	1.46	0.95	-0.95	2.00	2.00	0.00
2,200.00	4.00	32.98	2,199.84	5.85	3.80	-3.82	2.00	2.00	0.00
2,300.00	6.00	32.98	2,299.45	13.16	8.54	-8.59	2.00	2.00	0.00
2,400.00	8.00	32.98	2,398.70	23.39	15.18	-15.25	2.00	2.00	0.00
2,500.00	10.00	32.98	2,497.47	36.51	23.69	-23.81	2.00	2.00	0.00
2,503.59	10.07	32.98	2,501.00	37.03	24.03	-24.16	2.00	2.00	0.00
2,600.00	hydrite 1 Top 12.00	32.98	2,595.62	52.51	34.08	-34.25	2.00	2.00	0.00
2,682.93	13.66	32.98	2,676.48	67.96	44.10	-44.33	2.00	2.00	0.00
2,700.00	13.66	32.98	2,693.07	71.34	46.30	-46.53	0.00	0.00	0.00
2,800.00	13.66	32.98	2,790.24	91.15	59.15	-59.45	0.00	0.00	0.00
2,900.00	13.66	32.98	2,887.41	110.96	72.01	-72.38	0.00	0.00	0.00
2,939.71	13.66	32.98	2,926.00	118.82	77.11	-77.51	0.00	0.00	0.00
	hydrite 1 Base								
3,000.00	13.66	32.98	2,984.58	130.76	84.86	-85.30	0.00	0.00	0.00
3,100.00	13.66	32.98	3,081.76	150.57	97.72	-98.22	0.00	0.00	0.00
3,182.58	13.66	32.98	3,162.00	166.93	108.33	-108.89	0.00	0.00	0.00
3,200.00 3,280.34	hydrite 2 Top 13.66 13.66	32.98 32.98	3,178.93 3,257.00	170.38 186.30	110.57 120.90	-111.14 -121.52	0.00 0.00	0.00 0.00	0.00 0.00
	hydrite 2 Base			40					
3,300.00	13.66	32.98	3,276.10	190.19	123.43	-124.06	0.00	0.00	0.00
3,400.00	13.66	32.98	3,373.27	210.00	136.28	-136.98	0.00	0.00	0.00
3,500.00	13.66	32.98	3,470.44	229.80	149.14	-149.90	0.00	0.00	0.00
3,600.00	13.66	32.98	3,567.62	249.61	161.99	-162.82	0.00	0.00	0.00
3,635.39	13.66	32.98	3,602.00	256.62	166.54	-167.39	0.00	0.00	0.00
<b>Base Salt</b> 3,700.00	13.66	32.98	3,664.79	269.42	174.85	-175.74	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: JRU APACHE FEDERAL COM

Well: 901H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 901H

RKB = 32' @ 3381.00usft (TBD)

RKB = 32' @ 3381.00usft (TBD)

Grid

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,800.00	13.66	32.98	3,761.96	289.23	187.70	-188.66	0.00	0.00	0.00
3,900.00	13.66	32.98	3,859.13	309.04	200.56	-201.58	0.00	0.00	0.00
3,901.92	13.66	32.98	3,861.00	309.42	200.80	-201.83	0.00	0.00	0.00
Delaware/ 3,953.38 Bell Canyo	13.66	32.98	3,911.00	319.61	207.42	-208.48	0.00	0.00	0.00
4,000.00	13.66	32.98	3,956.30	328.84	213.41	-214.50	0.00	0.00	0.00
4,100.00	13.66	32.98	4,053.48	348.65	226.26	-227.42	0.00	0.00	0.00
4,200.00	13.66	32.98	4,150.65	368.46	239.12	-240.34	0.00	0.00	0.00
4,300.00	13.66	32.98	4,247.82	388.27	251.97	-253.26	0.00	0.00	0.00
4,400.00	13.66	32.98	4,344.99	408.08	264.83	-266.18	0.00	0.00	0.00
4,500.00	13.66	32.98	4,442.16	427.88	277.68	-279.10	0.00	0.00	0.00
4,600.00	13.66	32.98	4,539.34	447.69	290.54	-292.02	0.00	0.00	0.00
4,700.00	13.66	32.98	4,636.51	467.50	303.39	-304.94	0.00	0.00	0.00
4,800.00	13.66	32.98	4,733.68	487.31	316.25	-317.86	0.00	0.00	0.00
4,900.00	13.66	32.98	4,830.85	507.12	329.10	-330.78	0.00	0.00	0.00
5,000.00	13.66	32.98	4,928.02	526.92	341.96	-343.70	0.00	0.00	0.00
5,100.00	13.66	32.98	5,025.20	546.73	354.81	-356.62	0.00	0.00	0.00
5,180.07	13.66	32.98	5,103.00	562.59	365.11	-366.97	0.00	0.00	0.00
Cherry Ca 5,200.00 5,300.00		32.98 32.98	5,122.37 5,219.54	566.54 586.35	367.67 380.52	-369.54 -382.46	0.00	0.00 0.00	0.00 0.00
5,400.00	13.66	32.98	5,316.71	606.16	393.38	-395.38	0.00	0.00	0.00
5,500.00	13.66	32.98	5,413.88	625.96	406.23	-408.30	0.00	0.00	0.00
5,600.00	13.66	32.98	5,511.06	645.77	419.09	-421.23	0.00	0.00	0.00
5,700.00	13.66	32.98	5,608.23	665.58	431.94	-434.15	0.00	0.00	0.00
5,800.00	13.66	32.98	5,705.40	685.39	444.80	-447.07	0.00	0.00	0.00
5,900.00	13.66	32.98	5,802.57	705.20	457.65	-459.99	0.00	0.00	0.00
6,000.00	13.66	32.98	5,899.74	725.00	470.51	-472.91	0.00	0.00	0.00
6,100.00	13.66	32.98	5,996.92	744.81	483.36	-485.83	0.00	0.00	0.00
6,200.00	13.66	32.98	6,094.09	764.62	496.21	-498.75	0.00	0.00	0.00
6,300.00	13.66	32.98	6,191.26	784.43	509.07	-511.67	0.00	0.00	0.00
6,400.00	13.66	32.98	6,288.43	804.24	521.92	-524.59	0.00	0.00	0.00
6,500.00	13.66	32.98	6,385.60	824.04	534.78	-537.51	0.00	0.00	0.00
6,600.00	13.66	32.98	6,482.78	843.85	547.63	-550.43	0.00	0.00	0.00
6,700.00	13.66	32.98	6,579.95	863.66	560.49	-563.35	0.00	0.00	0.00
6,723.72	13.66	32.98	6,603.00	868.36	563.54	-566.41	0.00	0.00	0.00
Brushy Ca	-		0.0== 10	000.47	==0.01			0.00	0.00
6,800.00	13.66	32.98	6,677.12	883.47	573.34	-576.27	0.00	0.00	0.00
6,900.00	13.66	32.98	6,774.29	903.28	586.20	-589.19	0.00	0.00	0.00
7,000.00	13.66	32.98	6,871.46	923.08	599.05	-602.11	0.00	0.00	0.00
7,100.00	13.66	32.98	6,968.64	942.89	611.91	-615.03	0.00	0.00	0.00
7,200.00	13.66	32.98	7,065.81	962.70	624.76	-627.95	0.00	0.00	0.00
7,300.00	13.66	32.98	7,162.98	982.51	637.62	-640.87	0.00	0.00	0.00
7,400.00	13.66	32.98	7,260.15	1,002.32	650.47	-653.79	0.00	0.00	0.00
7,500.00	13.66	32.98	7,357.32	1,022.12	663.33	-666.71	0.00	0.00	0.00
7,600.00	13.66	32.98	7,454.50	1,041.93	676.18	-679.63	0.00	0.00	0.00
7,700.00	13.66	32.98	7,551.67	1,061.74	689.04	-692.55	0.00	0.00	0.00
7,800.00	13.66	32.98	7,648.84	1,081.55	701.89	-705.47	0.00	0.00	0.00
7,900.00	13.66	32.98	7,746.01	1,101.36	714.75	-718.39	0.00	0.00	0.00
7,915.42	13.66	32.98	7,761.00	1,104.41	716.73	-720.39	0.00	0.00	0.00
<b>Bone Spri</b> 7,997.75		32.98	7,841.00	1,120.72	727.31	-731.02	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: JRU APACHE FEDERAL COM

Well: 901H
Wellbore: Wellbore #1
Design: PERMIT

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 901H

RKB = 32' @ 3381.00usft (TBD)

RKB = 32' @ 3381.00usft (TBD)

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Avalon S									
8,000.00	13.66	32.98	7,843.18	1,121.16	727.60	-731.31	0.00	0.00	0.00
8,100.00	13.66	32.98	7,940.36	1,140.97	740.46	-744.23	0.00	0.00	0.00
8,200.00	13.66	32.98	8,037.53	1,160.78	753.31	-757.16	0.00	0.00	0.00
8,213.86		32.98	8,051.00	1,163.53	755.09	-758.95	0.00	0.00	0.00
8,296,19	alon Carb. 13.66	32.98	8,131.00	1,179.83	765.68	-769.58	0.00	0.00	0.00
Upper Av		32.30	0,101.00	1,173.03	700.00	-703.30	0.00	0.00	0.00
8,300.00	13.66	32.98	8,134.70	1,180.59	766.16	-770.08	0.00	0.00	0.00
8,400,00	13.66	32.98	8,231.87	1,200.40	779.02	-783.00	0.00	0.00	0.00
8,419.69	13.66	32.98	8,251.00	1,204.30	781.55	-785.54	0.00	0.00	0.00
	alon Carb.								
8,460.85		32.98	8,291.00	1,212.45	786.84	-790.86	0.00	0.00	0.00
Lw. Avalo		00.00	0.000.04	4 000 00	704.07	705.00	0.00	0.00	0.00
8,500.00 8,600.00	13.66 13.66	32.98 32.98	8,329.04 8,426.22	1,220.20 1,240.01	791.87 804.73	-795.92 -808.84	0.00 0.00	0.00 0.00	0.00 0.00
•				•					
8,700.00 8,790.16	13.66 13.66	32.98 32.98	8,523.39 8,611.00	1,259.82 1,277.68	817.58 829.17	-821.76 -833.41	0.00 0.00	0.00 0.00	0.00 0.00
	e Spring Carb	02.00	0,011.00	1,277.00	023.17	000.41	0.00	0.00	0.00
8,800.00	13.66	32.98	8,620.56	1,279.63	830.44	-834.68	0.00	0.00	0.00
8,900.00	13.66	32.98	8,717.73	1,299.44	843.29	-847.60	0.00	0.00	0.00
8,985.69	13.66	32.98	8,801.00	1,316.41	854.31	-858.67	0.00	0.00	0.00
First Bon	e Spring Ss.								
9,000.00	13.66	32.98	8,814.90	1,319.24	856.15	-860.52	0.00	0.00	0.00
9,100.00 9,200.00	13.66 13.66	32.98 32.98	8,912.08 9,009.25	1,339.05 1,358.86	869.00 881.86	-873.44 -886.36	0.00 0.00	0.00 0.00	0.00 0.00
9,300.00	13.66	32.98	9,106.42	1,378.67	894.71	-899.28	0.00	0.00	0.00
9,400.00	13.66	32.98	9,203.59	1,398.48	907.57	-912.20	0.00	0.00	0.00
9,439,53	13.66	32.98	9,242.00	1,406.31	912.65	-917.31	0.00	0.00	0.00
•	one Spring Ca		-,	.,					
9,500.00	13.66	32.98	9,300.76	1,418.28	920.42	-925.12	0.00	0.00	0.00
9,600.00	13.66	32.98	9,397.94	1,438.09	933.28	-938.04	0.00	0.00	0.00
9,700.00 9,736.94	13.66 13.66	32.98 32.98	9,495.11 9,531.00	1,457.90 1,465.22	946.13 950.88	-950.96 -955.73	0.00 0.00	0.00 0.00	0.00 0.00
	one Spring A S		3,331.00	1,700.22	550.00	555.75	0.00	0.00	0.00
9,800.00		32.98	9,592.28	1,477.71	958.99	-963.88	0.00	0.00	0.00
9,800.00	13.66 13.66	32.98 32.98	9,592.28 9,689.45	1,477.71 1,497.52	958.99 971.84	-963.88 -976.80	0.00	0.00	0.00
9,901.59	13.66	32.98	9,691.00	1,497.83	972.05	-977.01	0.00	0.00	0.00
	one Spring A/E								
9,963.34		32.98	9,751.00	1,510.06	979.98	-984.99	0.00	0.00	0.00
	one Spring B S		0.700.00	4 547 00	004.70	000 70	2.02	2.22	2.22
10,000.00	13.66	32.98	9,786.62	1,517.32	984.70	-989.72	0.00	0.00	0.00
10,086.83		32.98	9,871.00	1,534.52	995.86	-1,000.94	0.00	0.00	0.00
	ne Spring Carb.		0.000.00	4 507 40	007.55	4.000.01	0.00	0.00	0.00
10,100.00 10,200.00	13.66 13.66	32.98 32.98	9,883.80 9,980.97	1,537.13 1,556.94	997.55 1,010.41	-1,002.64 -1,015.56	0.00 0.00	0.00 0.00	0.00 0.00
10,200,00	13.66	32.98	10,076.00	1,576.31	1,010.41	-1,015.56	0.00	0.00	0.00
Harkey S		3	,	.,	.,	.,	2.20	3.20	
10,300.00		32.98	10,078.14	1,576.75	1,023.26	-1,028.48	0.00	0.00	0.00
10,395.56	13.66	32.98	10,171.00	1,595.68	1,035.54	-1,040.83	0.00	0.00	0.00
,	ne Spring Shale		,	,	,	,			
10,400.00		32.98	10,175.31	1,596.56	1,036.12	-1,041.40	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: JRU APACHE FEDERAL COM

Well: 901H
Wellbore: Wellbore #1
Design: PERMIT

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 901H

RKB = 32' @ 3381.00usft (TBD)

RKB = 32' @ 3381.00usft (TBD)

Grid

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.00	13.66	32.98	10,272.48	1,616.36	1,048.97	-1,054.32	0.00	0.00	0.00
10,532.71	13.66	32.98	10,304.27	1,622.84	1,053.17	-1,058.55	0.00	0.00	0.00
10,550.00	12.82	26.38	10,321.10	1,626.27	1,055.14	-1,060.53	10.00	-4.87	-38.18
10,600.00	11.53	3.29	10,370.00	1,636.24	1,057.89	-1,063.31	10.00	-2.57	-46.19
10,650.00	12.29	339.15	10,418.96	1,646.21	1,056.28	-1,061.74	10.00	1.51	-48.27
10,700.00	14.78	320.46	10,467.59	1,656.10	1,050.33	-1,055.81	10.00	4.98	-37.38
10,750.00	18.30	307.92	10,515.53	1,665.85	1,040.07	-1,045.59	10.00	7.05	-25.08
10,787.71	21.34	301.33	10,551.00	1,673.06	1,029.53	-1,035.07	10.00	8.07	-17.48
	e Spring Ss.	001.00	10,001.00	1,010.00	1,020.00	1,000.01	10.00	0.01	11.10
10,800.00	22,38	299.56	10,562.41	1,675.38	1,025.58	-1,031.13	10.00	8.44	-14.40
10,850.00	26,76	293.74	10,607.88	1,684.61	1,006.99	-1,012.57	10.00	8.76	-11.64
10,900.00	31,32	289.48	10,651.58	1,693.48	984.42	-990.03	10.00	9.11	-8.52
10,950.00	35,98	286.21	10,693.20	1,701.92	958.04	-963.68	10.00	9.33	-6.53
11,000.00	40,71	283.61	10,732.40	1,709.86	928.07	-933.74	10.00	9.47	-5.20
11,050.00	45.50	281.47	10,768.90	1,717.25	894.73	-900.42	10.00	9.56	-4.29
11,100.00	50.31	279.65	10,802.41	1,724.02	858.27	-863.98	10.00	9.63	-3.63
11,150.00	55.15	278.07	10,832.68	1,730.13	818.96	-824.69	10.00	9.68	-3.16
11,161.21	56.24	277.74	10,839.00	1,731.40	809.79	-815.53	10.00	9.70	-2.92
Horizontal 11,200.00	60.01	276.67	10,859.48	1,735.53	777.12	-782.87	10.00	9.72	-2.77
11,246.25	64.51 e Spring Ss F	275.49	10,881.00	1,739.85	736.43	-742.19	10.00	9.74	-2.55
11,250.00	64.88	275.40	10,882.60	1,740.18	733.05	-738.81	10.00	9.75	-2.44
11,300.00	69.76	274.23	10,901.88	1,744.04	687.09	-692.87	10.00	9.76	-2.35
11,350.00	74.65	273.12	10,917.15	1,747.08	639.59	-645.38	10.00	9.78	-2.20
11,400.00	79.54	272.07	10,928.32	1,749.29	590.92	-596.72	10.00	9.79	-2.10
11,450.00	84.44	271.05	10,935.28	1,750.63	541.44	-547.25	10.00	9.79	-2.04
11,500.00	89.34	270.05	10,937.99	1,751.12	491.54	-497.34	10.00	9.80	-2.00
11,512.34	90.55	269.81	10,938.00	1,751.10	479.20	-485.00	10.00	9.80	-2.00
Landing P		222.24	40.007.40	. === 0.1	201 = 1	007.04			
11,600.00	90.55	269.81	10,937.16	1,750.81	391.54	-397.34	0.00	0.00	0.00
11,700.00	90.55	269.81	10,936.20	1,750.47	291.55	-297.35	0.00	0.00	0.00
11,800.00	90.55	269.81	10,935.24	1,750.13	191.55	-197.35	0.00	0.00	0.00
11,900.00	90.55	269.81	10,934.28	1,749.80	91.56	-97.36	0.00	0.00	0.00
12,000.00	90.55	269.81	10,933.32	1,749.46	-8.44	2.64	0.00	0.00	0.00
12,100.00	90.55	269.81	10,932.36	1,749.12	-108.43	102.63	0.00	0.00	0.00
12,200.00	90.55	269.81	10,931.40	1,748.79	-208.43	202.63	0.00	0.00	0.00
12,300.00	90.55	269.81	10,930.44	1,748.45	-308.42	302.62	0.00	0.00	0.00
12,400.00	90.55	269.81	10,929.48	1,748.12	-408.42	402.62	0.00	0.00	0.00
12,500.00	90.55	269.81	10,928.52	1,747.78	-508.41	502.61	0.00	0.00	0.00
12,600.00	90.55	269.81	10,927.57	1,747.44	-608.41	602.61	0.00	0.00	0.00
12,700.00	90.55	269.81	10,926.61	1,747.11	-708.40	702.61	0.00	0.00	0.00
12,800.00	90.55	269.81	10,925.65	1,746.77	-808.40	802.60	0.00	0.00	0.00
12,900.00	90.55	269.81	10,924.69	1,746.43	-908.39	902.60	0.00	0.00	0.00
13,000.00	90.55	269.81	10,923.73	1,746.10	-1,008.39	1,002.59	0.00	0.00	0.00
13,100.00	90.55	269.81	10,922.77	1,745.76	-1,108.38	1,102.59	0.00	0.00	0.00
13,200.00	90.55	269.81	10,921.81	1,745.43	-1,208.38	1,202.58	0.00	0.00	0.00
13,300.00	90.55	269.81	10,920.85	1,745.09	-1,308.37	1,302.58	0.00	0.00	0.00
13,400.00	90.55	269.81	10,919.89	1,744.75	-1,408.37	1,402.57	0.00	0.00	0.00
13,500.00	90.55	269.81	10,918.93	1,744.42	-1,508.36	1,502.57	0.00	0.00	0.00
13,600.00	90.55	269.81	10,917.97	1,744.08	-1,608.36	1,602.56	0.00	0.00	0.00
13,700.00	90.55	269.81	10,917.01	1,743.74	-1,708.35	1,702.56	0.00	0.00	0.00
13,800.00	90.55	269.81	10,916.05	1,743.41	-1,808.35	1,802.55	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: JRU APACHE FEDERAL COM

Well: 901H
Wellbore: Wellbore #1
Design: PERMIT

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 901H

RKB = 32' @ 3381.00usft (TBD)

RKB = 32' @ 3381.00usft (TBD)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,900.00	90.55	269.81	10,915.09	1,743.07	-1,908.34	1,902.55	0.00	0.00	0.00
14,000.00	90.55	269.81	10,914.13	1,742.73	-2,008.34	2,002.55	0.00	0.00	0.00
14,100.00	90.55	269.81	10,913.17	1,742.40	-2,108.33	2,102.54	0.00	0.00	0.00
14,200.00	90.55	269.81	10,912.22	1,742.06	-2,208.33	2,202.54	0.00	0.00	0.00
14,300.00 14,400.00 14,500.00	90.55 90.55 90.55	269.81 269.81 269.81	10,911.26 10,910.30 10,909.34	1,741.73 1,741.39 1,741.05	-2,308.32 -2,408.32 -2,508.31	2,302.53 2,402.53 2,502.52	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00
14,600.00	90.55	269.81	10,908.38	1,740.72	-2,608.30	2,602.52	0.00	0.00	0.00
14,700.00	90.55	269.81	10,907.42	1,740.38	-2,708.30	2,702.51	0.00	0.00	0.00
14,800.00	90.55	269.81	10,906.46	1,740.04	-2,808.29	2,802.51	0.00	0.00	0.00
14,900.00	90.55	269.81	10,905.50	1,739.71	-2,908.29	2,902.50	0.00	0.00	0.00
15,000.00	90.55	269.81	10,904.54	1,739.37	-3,008.28	3,002.50	0.00	0.00	0.00
15,100.00	90.55	269.81	10,903.58	1,739.04	-3,108.28	3,102.50	0.00	0.00	0.00
15,200.00	90.55	269.81	10,902.62	1,738.70	-3,208.27	3,202.49	0.00	0.00	0.00
15,300.00 15,400.00 15,500.00 15,600.00 15,700.00	90.55 90.55 90.55 90.55 90.55	269.81 269.81 269.81 269.81 269.81	10,901.66 10,900.70 10,899.74 10,898.78 10,897.82	1,738.36 1,738.03 1,737.69 1,737.35 1,737.02	-3,308.27 -3,408.26 -3,508.26 -3,608.25 -3,708.25	3,302.49 3,402.48 3,502.48 3,602.47 3,702.47	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,700.00 15,800.00 15,900.00 16,000.00 16,100.00	90.55 90.55 90.55 90.55	269.81 269.81 269.81 269.81	10,896.87 10,895.91 10,894.95 10,893.99	1,736.68 1,736.35 1,736.01 1,735.67	-3,808.24 -3,908.24 -4,008.23 -4,108.23	3,802.46 3,902.46 4,002.45 4,102.45	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,200.00	90.55	269.81	10,893.03	1,735.34	-4,208.22	4,202.44	0.00	0.00	0.00
16,300.00	90.55	269.81	10,892.07	1,735.00	-4,308.22	4,302.44	0.00	0.00	0.00
16,400.00	90.55	269.81	10,891.11	1,734.66	-4,408.21	4,402.44	0.00	0.00	0.00
16,500.00	90.55	269.81	10,890.15	1,734.33	-4,508.21	4,502.43	0.00	0.00	0.00
16,600.00	90.55	269.81	10,889.19	1,733.99	-4,608.20	4,602.43	0.00	0.00	0.00
16,700.00	90.55	269.81	10,888.23	1,733.66	-4,708.20	4,702.42	0.00	0.00	0.00
16,800.00	90.55	269.81	10,887.27	1,733.32	-4,808.19	4,802.42	0.00	0.00	0.00
16,900.00 17,000.00 17,100.00 17,200.00	90.55 90.55 90.55 90.55	269.81 269.81 269.81 269.81	10,886.31 10,885.35 10,884.39 10,883.43	1,732.98 1,732.65 1,732.31 1,731.97	-4,908.19 -5,008.18 -5,108.18 -5,208.17	4,902.41 5,002.41 5,102.40 5,202.40	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
17,300.00	90.55	269.81	10,882.47	1,731.64	-5,308.17	5,302.39	0.00	0.00	0.00
17,400.00	90.55	269.81	10,881.52	1,731.30	-5,408.16	5,402.39	0.00	0.00	0.00
17,500.00	90.55	269.81	10,880.56	1,730.97	-5,508.16	5,502.38	0.00	0.00	0.00
17,600.00	90.55	269.81	10.879.60	1,730.63	-5,608.15	5,602.38	0.00	0.00	0.00
17,700.00	90.55	269.81	10,878.64	1,730.29	-5,708.14	5,702.38	0.00	0.00	0.00
17,800.00	90.55	269.81	10,877.68	1,729.96	-5,808.14	5,802.37	0.00	0.00	0.00
17,900.00	90.55	269.81	10,876.72	1,729.62	-5,908.13	5,902.37	0.00	0.00	0.00
18,000.00	90.55	269.81	10,875.76	1,729.28	-6,008.13	6,002.36	0.00	0.00	0.00
18,100.00	90.55	269.81	10,874.80	1,728.95	-6,108.12	6,102.36	0.00	0.00	0.00
18,200.00	90.55	269.81	10,873.84	1,728.61	-6,208.12	6,202.35	0.00	0.00	0.00
18,300.00	90.55	269.81	10,872.88	1,728.28	-6,308.11	6,302.35	0.00	0.00	0.00
18,400.00	90.55	269.81	10,871.92	1,727.94	-6,408.11	6,402.34	0.00	0.00	0.00
18,500.00	90.55	269.81	10,870.96	1,727.60	-6,508.10	6,502.34	0.00	0.00	0.00
18,600.00	90.55	269.81	10,870.00	1,727.27	-6,608.10	6,602.33	0.00	0.00	0.00
18,700.00	90.55	269.81	10,869.04	1,726.93	-6,708.09	6,702.33	0.00	0.00	0.00
18,800.00	90.55	269.81	10,868.08	1,726.59	-6,808.09	6,802.32	0.00	0.00	0.00
18,900.00	90.55	269.81	10,867.12	1,726.26	-6,908.08	6,902.32	0.00	0.00	0.00
19,000.00	90.55	269.81	10,866.17	1,725.92	-7,008.08	7,002.32	0.00	0.00	0.00
19,100.00 19,200.00	90.55 90.55 90.55	269.81 269.81	10,865.21 10,864.25	1,725.59 1,725.25 1,725.25	-7,008.08 -7,108.07 -7,208.07	7,002.32 7,102.31 7,202.31	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: JRU APACHE FEDERAL COM

Well: 901H
Wellbore: Wellbore #1
Design: PERMIT

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 901H

RKB = 32' @ 3381.00usft (TBD)

RKB = 32' @ 3381.00usft (TBD)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,300.00	90.55	269.81	10,863.29	1,724.91	-7,308.06	7,302.30	0.00	0.00	0.00
19,400.00	90.55	269.81	10,862.33	1,724.58	-7,408.06	7,402.30	0.00	0.00	0.00
19,500.00	90.55	269.81	10,861.37	1,724.24	-7,508.05	7,502.29	0.00	0.00	0.00
19,600.00	90.55	269.81	10,860.41	1,723.90	-7,608.05	7,602.29	0.00	0.00	0.00
19,700.00	90.55	269.81	10,859.45	1,723.57	-7,708.04	7,702.28	0.00	0.00	0.00
19,800.00	90.55	269.81	10,858.49	1,723.23	-7,808.04	7,802.28	0.00	0.00	0.00
19,900.00	90.55	269.81	10,857.53	1,722.90	-7,908.03	7,902.27	0.00	0.00	0.00
20,000.00	90.55	269.81	10,856.57	1,722.56	-8,008.03	8,002.27	0.00	0.00	0.00
20,100.00	90.55	269.81	10,855.61	1,722.22	-8,108.02	8,102.27	0.00	0.00	0.00
20,200.00	90.55	269.81	10,854.65	1,721.89	-8,208.02	8,202.26	0.00	0.00	0.00
20,300.00	90.55	269.81	10,853.69	1,721.55	-8,308.01	8,302.26	0.00	0.00	0.00
20,400.00	90.55	269.81	10,852.73	1,721.21	-8,408.01	8,402.25	0.00	0.00	0.00
20,500.00	90.55	269.81	10,851.77	1,720.88	-8,508.00	8,502.25	0.00	0.00	0.00
20,600.00	90.55	269.81	10,850.82	1,720.54	-8,607.99	8,602.24	0.00	0.00	0.00
20,700.00	90.55	269.81	10,849.86	1,720.21	-8,707.99	8,702.24	0.00	0.00	0.00
20,800.00	90.55	269.81	10,848.90	1,719.87	-8,807.98	8,802.23	0.00	0.00	0.00
20,900.00	90.55	269.81	10,847.94	1,719.53	-8,907.98	8,902.23	0.00	0.00	0.00
21,000.00	90.55	269.81	10,846.98	1,719.20	-9,007.97	9,002.22	0.00	0.00	0.00
21,100.00	90.55	269.81	10,846.02	1,718.86	-9,107.97	9,102.22	0.00	0.00	0.00
21,200.00	90.55	269.81	10,845.06	1,718.52	-9,207.96	9,202.21	0.00	0.00	0.00
21,300.00	90.55	269.81	10,844.10	1,718.19	-9,307.96	9,302.21	0.00	0.00	0.00
21,400.00	90.55	269.81	10,843.14	1,717.85	-9,407.95	9,402.21	0.00	0.00	0.00
21,500.00	90.55	269.81	10,842.18	1,717.51	-9,507.95	9,502.20	0.00	0.00	0.00
21,600.00	90.55	269.81	10,841.22	1,717.18	-9,607.94	9,602.20	0.00	0.00	0.00
21,700.00	90.55	269.81	10,840.26	1,716.84	-9,707.94	9,702.19	0.00	0.00	0.00
21,781.57	90.55	269.81	10,839.48	1,716.57	-9,789.50	9,783.75	0.00	0.00	0.00
21,800.00	90.55	269.81	10,839.30	1,716.51	-9,807.93	9,802.19	0.00	0.00	0.00
21,831.57	90.55	269.81	10,839.00	1,716.40	-9,839.50	9,833.75	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
901H SHL: 2545' FSL - plan hits target ce - Point	0.00 enter	0.00	0.00	0.00	0.00	506,591.90	656,063.60	32.3917217	-103.8277353
901H BHL: 990' FNL, - plan hits target ce - Point	0.00 enter	0,00	10,839.00	1,716.40	-9,839.50	508,308.30	646,224.10	32.3965636	-103.8595866
901H LTP - plan misses targe - Point	0.00 et center by		10,839.48 21781.57u	1,716.60 sft MD (1083	-9,789.50 39.48 TVD, 1	508,308.50 1716.57 N, -9789.	646,274.10 50 E)	32.3965635	-103.8594246
901H FTP/ LP - plan hits target ce - Point	0.00 enter	0.00	10,938.00	1,751.10	479.20	508,343.00	656,542.80	32.3965289	-103.8261560



**Database:** EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: JRU APACHE FEDERAL COM

Well: 901H
Wellbore: Wellbore #1
Design: PERMIT

**Local Co-ordinate Reference:** 

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 901H

RKB = 32' @ 3381.00usft (TBD)

RKB = 32' @ 3381.00usft (TBD)

Grid

ign:	PERMI	1				
rmations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	455.00	455.00	Rustler			
	747.00	747.00	Salado/Top of Salt			
	2,503.59	2,501.00	Castile Anhydrite 1 Top			
	2,939.71	2,926.00	Castile Anhydrite 1 Base			
	3,182.58	3,162.00	Castile Anhydrite 2 Top			
	3,280.34	3,257.00	Castile Anhydrite 2 Base			
	3,635.39	3,602.00	Base Salt			
	3,901.92	3,861.00	Delaware/Lamar			
	3,953.38	3,911.00	Bell Canyon			
	5,180.07	5,103.00	Cherry Canyon			
	6,723.72	6,603.00	Brushy Canyon Ss.			
	7,915.42	7,761.00	Bone Spring Lm.			
	7,997.75	7,841.00	Avalon Ss.			
	8,213.86	8,051.00	Upper Avalon Carb.			
	8,296.19	8,131.00	Upper Avalon Sh.			
	8,419.69	8,251.00	Middle Avalon Carb.			
	8,460.85	8,291.00	Lw. Avalon Sh.			
	8,790.16	8,611.00	First Bone Spring Carb.			
	8,985.69	8,801.00	First Bone Spring Ss.			
	9,439.53	9,242.00	Second Bone Spring Carb.			
	9,736.94	9,531.00	Second Bone Spring A Ss.			
	9,901.59	9,691.00	Second Bone Spring A/B Carb.			
	9,963.34	9,751.00	Second Bone Spring B Ss.			
	10,086.83	9,871.00	Third Bone Spring Carb.			
	10,297.80	10,076.00	Harkey Ss.			
	10,395.56	10,171.00	Third Bone Spring Shale			
	10,787.71	10,551.00	Third Bone Spring Ss.			
	11,161.21	10,839.00	Horizontal TD			
	11,246.25	10,881.00	Third Bone Spring Ss Red Hills			
	11,512.34	10,938.00	Landing Point			

# **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 (6603') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to 3502'. 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.

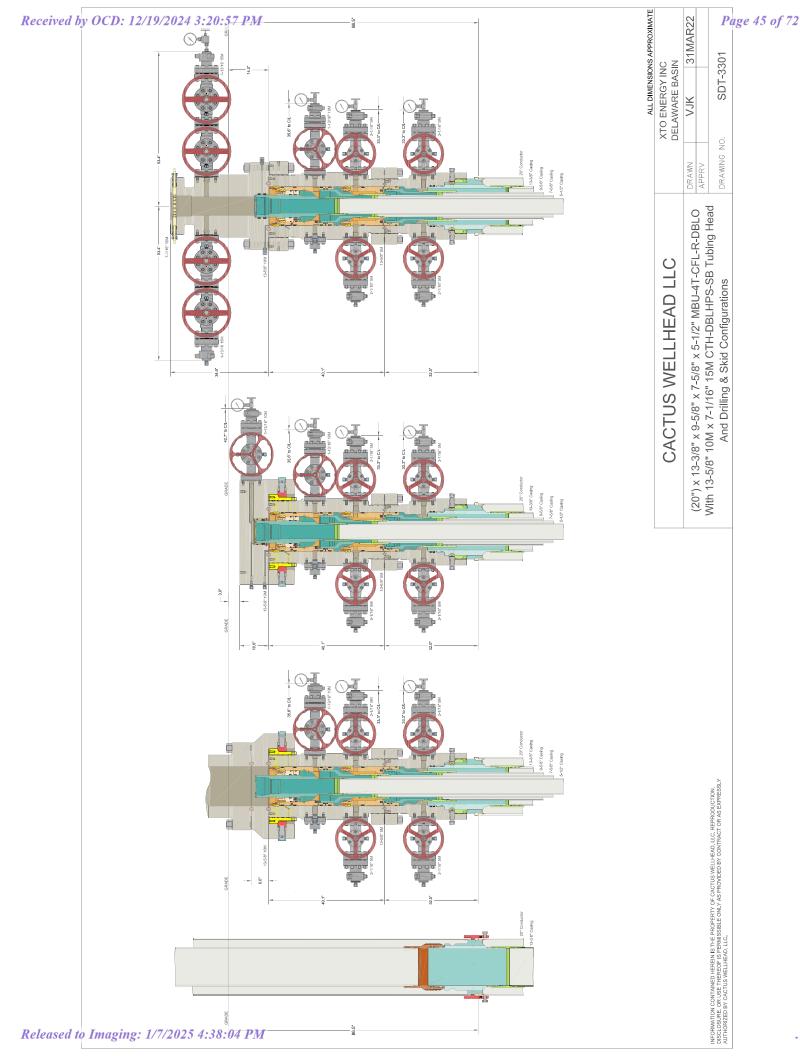
XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

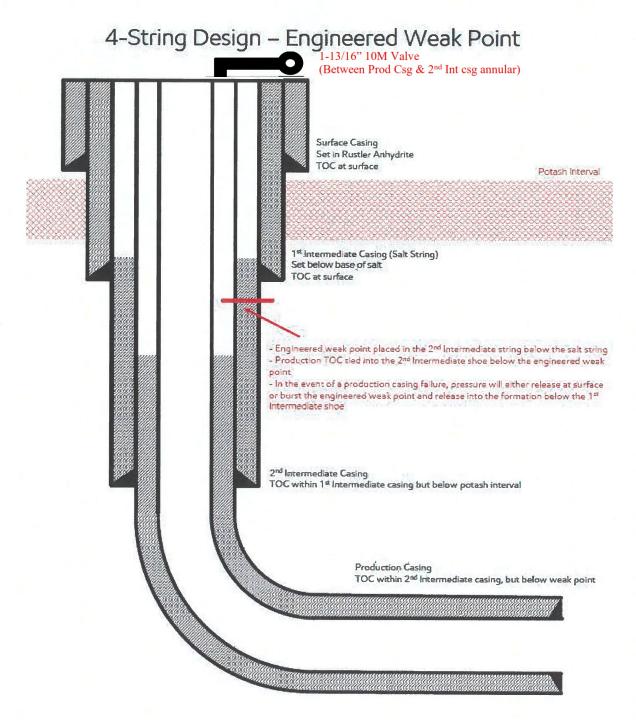
XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

#### **Production Casing:**

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.





[Figure F] 4 String – 2<sup>nd</sup> Intermediate casing engineered weak point

31592723 v1

#### 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

#### **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

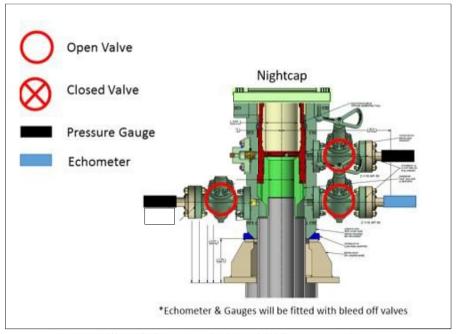
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

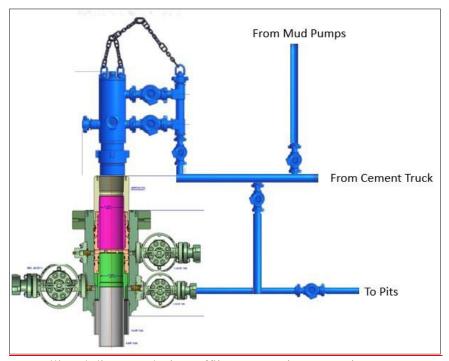
#### **XTO Permian Operating, LLC Offline Cementing Variance Request**



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

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



Wellhead diagram during offline cementing operations

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

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

#### Description of Operations:

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



**GATES ENGINEERING & SERVICES NORTH AMERICA** 

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/oilandgas

NEW CHOKE HOSE

INSTAUED 02-10-2024

# CERTIFICATE OF CONFORMANCE

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

CU	ST	OM	ER	:	

NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA

**CUSTOMER P.O.#:** 

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

CUSTOMER P/N:

IMR RETEST SN 74621 ASSET #66-1531

PART DESCRIPTION:

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

FLANGES

SALES ORDER #:

529480

QUANTITY:

1

SERIAL #:

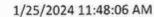
74621 H3-012524-1

SIGNATURE: F. CUSTUSE

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

# H3-15/16





# **TEST REPORT**

CUSTOMER

Company:

Nabors Industries Inc.

**TEST OBJECT** 

Serial number: H3-012524-1

Lot number:

Production description:

74621/66-1531

Description:

74621/66-1531

Sales order #: Customer reference: 529480 FG1213

Hose ID:

3" 16C CK

Part number:

TEST INFORMATION

Test procedure:

GTS-04-053

Fitting 1:

3.0 x 4-1/16 10K

Test pressure: Test pressure hold: 15000.00 3600.00

psi sec Part number: Description:

Work pressure:

10000.00

psi

3.0 x 4-1/16 10K

Work pressure hold: Length difference:

Length difference:

900.00 0.00

sec % inch Fitting 2: Part number:

Description:

Visual check:

Pressure test result:

PASS

0.00

Length measurement result:

Length:

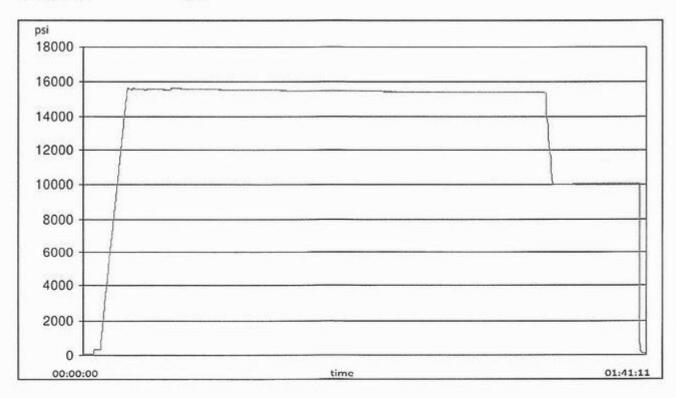
45

feet

n. -- + /n

Test operator:

Travis





H3-15/16 1/25/2024 11:48:06 AM

# **TEST REPORT**

# **GAUGE TRACEABILITY**

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

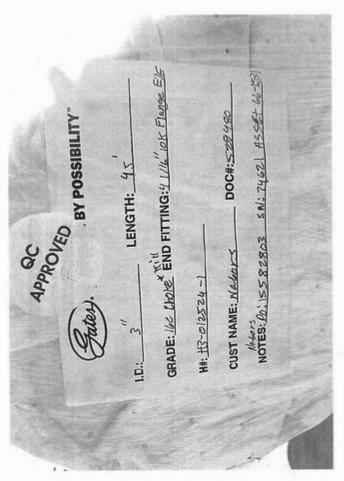


Released to Imaging: 1/7/2025 4:38:04 PM









Released to Imaging: 1/7/2025 4:38:04 PM



U.S. Department of the Interior

SUPO Data Report

BUREAU OF LAND MANAGEMENT

APD ID: 10400085291

**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: JRU APACHE FEDERAL COM

Well Type: OIL WELL

Submission Date: 05/23/2022

Well Number: 901H

Well Work Type: Drill

Highlighted data reflects the most recent changes

**Show Final Text** 

# **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

Apache\_901H\_Road\_20220511215832.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

#### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

**New Road Map:** 

Apache Road 20211110051658.pdf

New road type: LOCAL

Length: 4897.61 Feet 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: JRU APACHE FEDERAL COM Well Number: 901H

Access road engineering design? N

Access road engineering design

**Turnout?** N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: 6" Rolled & Compacted Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.

Access other construction information: A. The JRU Apache development area is accessed from the intersection of Hwy 128 (Jal Hwy) and Cimarron Ro go North on Cimarron Road approximately 2.2 miles. Turn right (east) on leas road approximately 1.3 miles then turn right (southeast) on lease road for approximately .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.

Access miscellaneous information: After well completion, travel to each well site will included one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.

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** 

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

# **Section 3 - Location of Existing Wells**

**Existing Wells Map?** YES

Attach Well map:

Apache\_1Mile\_20211110051954.pdf

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production Facilities. One (1) 600x600 pad was staked with the BLM for construction and use as a Central Tank Battery (JRU Apache CTB). The proposed pad is located in the SWSW, Section 24-T22S-R30E (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. Buried & Surface Flowlines. In the event the JRU Apache wells are found productive, two-hundred and sixty-two (262) 10in. or less buried composite flexpipe 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 CTB. If XTO decides to run surface lines, one-hundred and thirty-one (131) 4in. or less composite flexpipe 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. Gas & Oil Pipeline. No additional oil or gas pipeline will be required for this project. Disposal Facilities. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. Flare. A flare independent of the proposed CTB location is not necessary for this project. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as shale green that reduce the visual impacts of the built environment. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 times the capacity of the largest tank and away from cut or fill areas. Electrical. All lines will be primary 25ky 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\_CTB\_20211110052053.pdf Apache\_FL\_20211110052102.pdf Apache\_OHE\_20211110052114.pdf

Section 5 - Location and Types of Water Supply

**Water Source Table** 

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Water source type: OTHER

Describe type: Fresh Water; Section27-25S-30E

Water source use type: DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING STIMULATION

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

**PIPELINE** 

Source land ownership: COMMERCIAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 4000000 Source volume (acre-feet): 515.57238532

Source volume (gal): 168000000

Water source type: OTHER

Describe type: Fresh Water; Section 6-25S-29E

Water source use type: DUST CONTROL

SURFACE CASING

INTERMEDIATE/PRODUCTION

**CASING** 

**STIMULATION** 

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

TRUCKING

Source land ownership: COMMERCIAL

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Source transportation land ownership: FEDERAL

Water source volume (barrels): 4000000 Source volume (acre-feet): 515.57238532

Source volume (gal): 168000000

#### Water source and transportation

Apache\_901H\_Wtr\_20220511220117.pdf

Water source comments: Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating, LLC. from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO Permian Operating, LLC. at time of drilling and completion, then XTO Permian Operating, LLC. water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico. Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

#### New water well? N

#### **New Water Well Info**

Well latitude:	Well Longitude:	Well datum:
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aqu	ifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside dia	meter (in.):
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.):	
Well Production type:	Completion Method:	

Water well additional information:

Additional information attachment:

State appropriation permit:

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

#### **Section 6 - Construction Materials**

Using any construction materials: NO

**Construction Materials description:** 

**Construction Materials source location** 

# Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500 barrels

Waste disposal frequency: One Time Only

Safe containment description: Steel mud pits

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

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

Waste type: 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.

Safe containmant attachment:

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

**FACILITY** 

Disposal type description:

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

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250 gallons

Waste disposal frequency: Weekly

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

Safe containment attachment:

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

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 human waste.

Waste type: GARBAGE

Waste content description: Garbage

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. Debris. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

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

#### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

# **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

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:

Apache\_901H\_Well\_20220511220031.pdf Apache\_WSL\_Pad\_A\_20240801072814.pdf

Comments:

# Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: JRU APACHE

**Multiple Well Pad Number: 2** 

#### Recontouring

Apache\_IR\_1\_20221102102801.pdf

Apache\_IR\_2\_20221102102807.pdf

Apache\_IR\_3\_20221102102825.pdf

Apache\_IR\_4\_20221102102857.pdf

Apache\_IR\_5\_20221102102905.pdf

Apache\_IR\_6\_20221102102912.pdf

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

**Drainage/Erosion control reclamation:** XTO Permian Operating, LLC. requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Reseeding of the topsoil stockpile in place will occur to maintain topsoil vitality until interim reclamation ensues. Once activities are completed, XTO Permian Operating, LLC. will coordinate interim reclamation with the appropriate BLM personnel.

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

45.73

Well pad proposed disturbance

(acres): 69.78

Road proposed disturbance (acres):

3.37

Powerline proposed disturbance

(acres): 12.55

Pipeline proposed disturbance

(acres): 45.73

Other proposed disturbance (acres):

8.26

Total proposed disturbance: 139.69

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

(acres): 69 78

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

3.37

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 12.55

Pipeline long term disturbance

(acres): 0

Other long term disturbance (acres):

8.26

Total interim reclamation: 45.73 Total long term disturbance:

93.96000000000001

#### **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

Pipeline interim reclamation (acres):

Other interim reclamation (acres): 0

**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:** Environmental Setting. 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. The current vegetative community: none. The pad is caliche. No additional disturbance is necessary.

**Existing Vegetation at the well pad** 

**Existing Vegetation Community at the road:** Environmental Setting. 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. The current vegetative community: none. The pad is caliche. No additional disturbance is necessary.

**Existing Vegetation Community at the road** 

**Existing Vegetation Community at the pipeline:** Environmental Setting. 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. The current vegetative community: none. The pad is caliche. No additional disturbance is necessary.

**Existing Vegetation Community at the pipeline** 

**Existing Vegetation Community at other disturbances:** Environmental Setting. 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. The current vegetative community: none. The pad is caliche. No additional disturbance is necessary.

**Existing Vegetation Community at other disturbances** 

Non native seed used? N

Non native seed description:

Seedling transplant description:

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

**Seed Table** 

Seed Summary
Seed Type Pounds/Acre

Total pounds/Acre:

Seed reclamation

# **Operator Contact/Responsible Official**

First Name: James Last Name: Scott

Phone: (432)488-9955 Email: james\_scott@xtoenergy.com

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

Existing invasive species? N

Existing invasive species treatment description:

**Existing invasive species treatment** 

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

Weed treatment plan

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

Monitoring plan

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

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	
Di	isturbance type: WELL PAD	
	escribe:	
Sı	urface Owner: BUREAU OF LAND MANAGEMENT	
0	ther surface owner description:	
В	IA Local Office:	
В	OR Local Office:	
C	OE Local Office:	
D	OD Local Office:	
N	PS Local Office:	
St	tate Local Office:	
М	ilitary Local Office:	
U	SFWS Local Office:	
0	ther Local Office:	
U	SFS Region:	
U	SFS Forest/Grassland:	USF
Di	isturbance type: EXISTING ACCESS ROAD	
	escribe:	
Sı	urface Owner: BUREAU OF LAND MANAGEMENT	
0	ther surface owner description:	
В	IA Local Office:	
В	OR Local Office:	
C	OE Local Office:	
D	OD Local Office:	
N	PS Local Office:	

**State Local Office:** 

Operator N	Name: XTO PERMIAN OPERATING LLC	

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Military Local Office:

**USFWS Local Office:** 

Other Local Office:

**USFS Region:** 

USFS Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

**Other Local Office:** 

**USFS Region:** 

**USFS** Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

**Other Local Office:** 

**USFS Region:** 

**USFS** Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: TRANSMISSION LINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

NPS Local Office:

State Local Office:

Military Local Office:

**USFWS Local Office:** 

**Other Local Office:** 

**USFS** Region:

USFS Forest/Grassland:

**USFS Ranger District:** 

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Disturbance type: OTHER

Describe: Central Tank 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: Drill Island

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

**USFWS Local Office:** 

Other Local Office:

**USFS** Region:

USFS Forest/Grassland: USFS Ranger District:

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Disturbance type: OTHER

Describe: Flowline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

Military Local Office:

**USFWS Local Office:** 

Other Local Office:

**USFS Region:** 

USFS Forest/Grassland:

**USFS Ranger District:** 

# Section 12 - Other

Right of Way needed? 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,289001 ROW- O&G Well Pad,FLPMA (Powerline)

#### **ROW**

**SUPO Additional Information:** 

Use a previously conducted onsite? Y

**Previous Onsite information:** 02/19/2020: Onsited with Jeff Robertson (NRS), Jim Rutley (BLM Geo), and WIPP in attendance

**Other SUPO** 

Apache\_DI\_20211110052511.pdf Apache\_OL\_20211110052517.pdf

Well Name: JRU APACHE FEDERAL COM Well Number: 901H

Apache\_SUPO\_20211110052600.pdf Apache\_Well\_List\_20211110052524.pdf Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 414086

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	414086
	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.	12/19/2024
slaghuvarapu	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/19/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/7/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/7/2025
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.	1/7/2025
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.	1/7/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	1/7/2025