

# Application for Permit to Drill

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

# **APD Package Report**

Date Printed:

APD ID: Well Status:

APD Received Date: Well Name:

Operator: Well Number:

## 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: 4 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: 3 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 (June 2015)				OMB N	APPROV o. 1004-0	137
UNITED STATES	S			Expires: Ja	inuary 31	, 2018
DEPARTMENT OF THE IT BUREAU OF LAND MANA				5. Lease Serial No.		
APPLICATION FOR PERMIT TO D	RILL OR	REENTER		6. If Indian, Allotee	or Tribe	Name
1a. Type of work: DRILL RI	EENTER			7. If Unit or CA Agr	reement, l	Name and No.
1b. Type of Well: Oil Well Gas Well Ot	ther					
1c. Type of Completion: Hydraulic Fracturing Si	ngle Zone	Multiple Zone		8. Lease Name and	Well No.	
2. Name of Operator				9. API Well No.	)15-5	5861
3a. Address	3b. Phone	No. (include area cod	le)	10. Field and Pool,		·
4. Location of Well (Report location clearly and in accordance v	vith any Stai	e requirements.*)		11. Sec., T. R. M. or	Blk. and	l Survey or Area
At surface						
At proposed prod. zone						
14. Distance in miles and direction from nearest town or post offi	ce*			12. County or Parisl	h	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	acres in lease	17. Spacir	g Unit dedicated to t	his well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propos	ed Depth	20, BLM/	BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	ximate date work will	start*	23. Estimated durati	ion	
	24. Atta	chments				
The following, completed in accordance with the requirements of (as applicable)	Onshore O	il and Gas Order No.	1, and the H	ydraulic Fracturing r	ule per 43	3 CFR 3162.3-3
Well plat certified by a registered surveyor.     A Drilling Plan.		4. Bond to cover the Item 20 above).	ne operation	s unless covered by a	n existing	bond on file (see
<ol><li>A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office</li></ol>				mation and/or plans as	may be r	requested by the
25. Signature	Nam	e (Printed/Typed)			Date	
Title						
Approved by (Signature)	Nam	e (Printed/Typed)			Date	
Title	Offic	ce			1	
Application approval does not warrant or certify that the applican applicant to conduct operations thereon.  Conditions of approval, if any, are attached.	t holds lega	or equitable title to the	hose rights	in the subject lease w	hich wou	ald entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mof the United States any false, fictitious or fraudulent statements of					any depar	rtment or agency
		govni	TONS			

(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: SESE / 389 FSL / 930 FEL / TWSP: 22S / RANGE: 30E / SECTION: 24 / LAT: 32.371406 / LONG: -103.828605 ( TVD: 0 feet, MD: 0 feet )

PPP: NESE / 1650 FSL / 330 FEL / TWSP: 22S / RANGE: 30E / SECTION: 24 / LAT: 32.37487 / LONG: -103.826661 ( TVD: 10882 feet, MD: 11489 feet )

BHL: NWSE / 1650 FSL / 2590 FEL / TWSP: 22S / RANGE: 30E / SECTION: 23 / LAT: 32.374911 / LONG: -103.851334 ( TVD: 10882 feet, MD: 19107 feet )

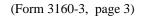
### **BLM Point of Contact**

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.



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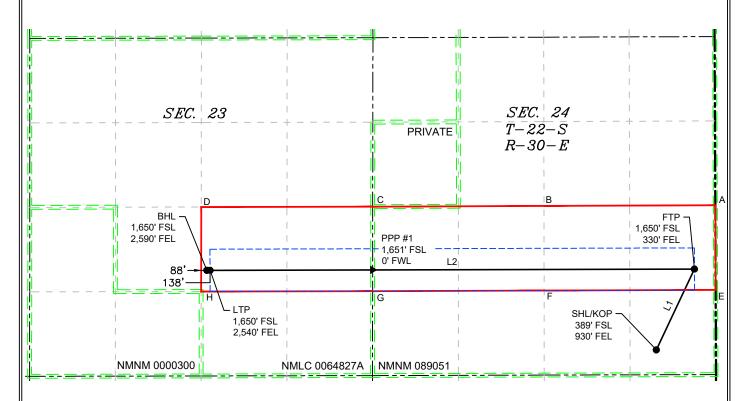
<u>C-10</u>	_					w Mexico al Resources Department ON DIVISION			Ro	evised July, 09 2024	
	electronically D Permitting						Submital Type:	☑ Initial Sub	Report		
									☐ As Drilled		
API Nu	mher		Pool Code		WELL LOCA	Pool Name					
AITINU	30-01	5-	4029			Los Medanos	; Bone Sp	oring			
Propert	y Code		Property N	ame	JRU APAC	HE FEDERAL COM		Well Number  907H			
OGRID	No. <b>37307</b>	5	Operator N	lame	XTO PERMIA	IN OPERATING, LLC	).	Ground Level Elevation 3,392'			
Surface	Owner: S	tate  Fee	Tribal ⊠Fe	deral		Mineral Owner: □S		☐Tribal ☐		,	
						I					
UL	Section	Township	Panga	Lot	Surfac Ft. from N/S	e Hole Location  Ft. from E/W	Latitude	1 1	Longitude	County	
P		_	Range	Lot						County	
Ρ	24	22\$	30E		389 FSL	930 FEL	32.371	1406 -	103.828605	EDDY	
T 17	G .:	т	Ъ	т.		Hole Location	1 7 22 7	Ι.	Camada d	C t	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County	
J	23	228	30E		1,650 FSL	2,590 FEL	32.374	1911 -	103.851334	EDDY	
	red Acres	Infill or Defin	ning Well	Defining	Well API	Overlapping Spacing U	Unit (Y/N)	Consolidat	ion Code		
Order N	Jumbers.	•				Well Setbacks are und	er Common C	Ownership:	ĭ Yes ☐ No		
					***	ann I ( aron)					
UL	Section	Township	Range	Lot	Ft. from N/S	Off Point (KOP)  Ft. from E/W	Latitude	l i	Longitude	County	
P	24	228	30E		389 FSL	930 FEL			103.828605	EDDY	
					First T	ake Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County	
ı	24	228	30E		1,650 FSL	330 FEL	32.374	1870 -	103.826661	EDDY	
					Last Ta	ake Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County	
J	23	228	30E		1,650 FSL	2,540 FEL	32.374	1910 -	103.851172	EDDY	
				1	1	1					
Unitize	d Area or Are	a of Interest		Spacing Ur	nit Type: 🛮 Horiz	zontal	Grou	nd Elevation	3,392'		
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFIC	ATIONS				
best of that this in the la at this I unlease pooling  If this we received unlease which a	my knowledges organization und including ocation pursu d mineral inte order of here vell is a horizo d the consent d mineral inte my part of the	and belief, and, either owns a v	, if the well is working interestom hole loc at with an own tary pooling a by the division ther certify that is see or ownect (in the targ d interval will	vertical or a est or unlease ation or has aer of a work agreement or . at this organi r of a workin et pool or inj	ed mineral interest a right to drill this ing interest or a compulsory exation has ig interest or formation) in	I hereby certify that the w actual surveys made by n correct to the best of my b	ie or under m	y supervision	DILLON NEW MEX/CO		
U	na Au	ustin_	11/13/ Date	24		Signature and Seal of Pro	fessional Sur	veyor	23788 8/ONAL 9	un'	
Jena Printed	Austin Name					MARK DILLON HARP 2378 Certificate Number		f Survey	11/7/2024		
		@ExxonMo	obil.com								
	Address										
Zinan 2	Address					DN			618.01300	2.10-56	

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

#### ACREAGE DEDICATION PLATS

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

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



LINE TABLE							
LINE	AZIMUTH	LENGTH					
L1	02512'30"	1,395.83					
L2	269*50'50"	7,617.43					

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

COORDINATE TABLE									
SHL/KOI	P (NAD 83 N	ME)	SHL/KO	O (NAD 27 N	ME)				
Y =	499,216.6	N	Y =	499,156.1	Ν				
X =	697,164.0	Е	X =	655,982.3	Е				
LAT. =	32.371406	°N	LAT. =	32.371283	°N				
LONG. =	103.828605	°W	LONG. =	103.828112	°W				
FTP (I	NAD 83 NME	()	FTP (I	NAD 27 NME	()				
Υ=	500,479.5	Ν	Υ=	500,419.0	Ν				
X =	697,758.5	Ш	X =	656,576.8	Е				
LAT. =	32.374870	°N	LAT. =	32.374747	°N				
LONG. =	103.826661	°W	LONG. =	103.826167	°W				
PPP #1	(NAD 83 NM	E)	PPP #1	(NAD 27 NM	E)				
Υ=	500,466.1	N	Υ=	500,405.5	Ν				
X =	692,730.9	Е	X =	651,549.3	Е				
LAT. =	32.374897	°N	LAT. =	32.374774	°N				
LONG. =	103.842946	°W	LONG. =	103.842452	°W				
LTP (I	NAD 83 NME	.)	LTP (I	NAD 27 NME	)				
Υ=	500,459.3	Ν	Y=	500,398.7	Ν				
X =	690,191.1	Е	X =	649,009.5	Е				
LAT. =	32.374910	°N	LAT. =	32.374787	°N				
LONG. =	103.851172	°W	LONG. =	103.850678	°W				
BHL (I	VAD 83 NME	:)	BHL (NAD 27 NME)						
Υ=	500,459.2	Ν	Y =	500,398.6	Ν				
X =	690,141.1	Е	X =	648,959.5	Е				
LAT. =	32.374911	°N	LAT. =	32.374788	°N				
LONG. =	103.851334	°W	LONG. =	103.850840	°W				

COF	CORNER COORDINATES (NAD 83 NME)									
A-Y=	501,475.7	Z	A - X =	698,084.5	Е					
B-Y=	501,465.0	Ζ	B-X=	695,408.0	Е					
C - Y =	501,454.3	Ν	C - X =	692,732.3	Е					
D-Y=	501,448.6	N	D-X=	690,053.8	Е					
E-Y=	500,153.1	Ν	E - X =	698,089.8	Е					
F-Y=	500,143.7	N	F-X=	695,410.1	Е					
G-Y=	500,134.4	N	G-X=	692,730.7	Е					
H-Y=	500,128.8	Ν	H-X=	690,052.6	Е					
COF	NER COOR	RDIN	ATES (NA	AD 27 NME)						
A - Y =	501,415.1	N	A - X =	656,902.8	Е					
B-Y=	501,404.4	Ν	B-X=	654,226.4	Ε					
C - Y =	501,393.8	N	C - X =	651,550.7	Е					
D-Y=	501,388.0	N	D - X =	648,872.2	Е					
E-Y=	500,092.6	N	E-X=	656,908.2	Е					
F-Y=	500,083.2	N	F-X=	654,228.5	Е					
G-Y=	500,073.9	N	G-X=	651,549.1	Е					
H-Y=	500,068.3	N	H-X=	648,870.9	Ε					

N

618.013002.10-56

# 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: 3/30/5	Date: 08/19/2024	
II. Type: ⊠ Original □ Amendment due to □ 19.15.27	7.9.D(6)(a) NMAC □ 19.1	5.27.9.D(6)(b) NMAC □ Other.	
If Other, please describe:			

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	3 yr Anticipated decline	Anticipated Gas MCF/D	3 yr anticipated decline Gas	Anticipated Produced Water	3 yr anticipated decline
					Oil BBL/D	WCI7B	MCF/D	BBL/D	Water
									BBL/D
James Ranch					100		1500		200
Unit Apache 149H	TBD	12 22G 20E	507 FSL,	600		2500		5000	
James Ranch	IBD	13 22S 30E	864 FEL	600	100	2500	1500	3000	200
Unit Apache			477 FSL,		100		1500		200
150H	TBD	13 22S 30E	863 FEL	600		2500		5000	
James Ranch			1524		100		1500		200
Unit Apache			FNL, 829						
142H	TBD	24 22S 30E	FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2228 FSL,						
135H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch			2227 FGI		100		1500		200
Unit Apache 136H	TBD	24 22S 30E	2227 FSL, 971 FEL	600		2500		5000	
James Ranch	ושנו	24 228 30E	9/1 FEL	600	100	2300	1500	3000	200
Unit Apache			2257 FSL,		100		1500		200
137H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch	TDD	21225 30E	J/TTEE	000	100	2300	1500	3000	200
Unit Apache			2167 FSL,						
138H	TBD	24 22S 30E	971 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2258 FSL,						
139H	TBD	24 22S 30E	871 FEL	600		2500		5000	
James Ranch					100		1500		200
Unit Apache			2288 FSL,						
140H	TBD	24 22S 30E	871 FEL	600	100	2500	4500	5000	200
James Ranch			2107 FGI		100		1500		200
Unit Apache 141H	TBD	24 22S 30E	2197 FSL, 971 FEL	600		2500		5000	
141Π	ממו	24 223 30E	9/I FEL	000		2300		3000	

James Ranch					100		1500		200
Unit Apache			419 FSL,		100		1500		200
131H	TBD	24 22S 30E	890 FEL	600		2500		5000	
James Ranch			200 EGI		100		1500		200
Unit Apache 132H	TBD	24 22S 30E	389 FSL, 889 FEL	600		2500		5000	
James Ranch	IBD	24 223 30E	009 FEL	000	100	2300	1500	3000	200
Unit Apache			359 FSL,				1300		200
133H	TBD	24 22S 30E	889 FEL	600		2500		5000	
James Ranch			222 537		100		1500		200
Unit Apache 134H	TBD	24 22S 30E	329 FSL, 889 FEL	600		2500		5000	
James Ranch	IDD	24 223 30E		000	200	2300	1400	3000	400
Unit Apache		13 22S 30E	2576 FSL, 867 FEL				1		
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	IDD			2000	200	3000	1400	7000	400
Unit Apache		13 22S 30E	416 FSL,		200		1.00		100
113H	TBD		962 FEL	2000		5000		7000	
James Ranch			350 FNL,		200		1400		400
Unit Apache 114H	TBD	24 22S 30E	949 FEL	2000		5000		7000	
James Ranch	עמו			2000	200	3000	1400	7000	400
Unit Apache		24 22S 30E	408 FNL,		200		1400		400
115H	TBD		848 FEL	2000		5000		7000	
James Ranch			2577 FSL,		100		1300		400
Unit Apache 701H	TDD	13 22S 30E	967 FEL	1000		2000		4500	
James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		13 22S 30E	2517 FSL,		100		1300		400
702H	TBD		968 FEL	1000		2000		4500	
James Ranch			2486 FSL,		100		1300		400
Unit Apache 703H	TDD	13 22S 30E	868 FEL	1000		2000		4500	
James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		13 22S 30E	2547 FSL,		100		1300		400
704H	TBD		967 FEL	1000		2000		4500	
James Ranch			2487 FSL,		100		1300		400
Unit Apache 705H	TBD	13 22S 30E	968 FEL	1000		2000		4500	
James Ranch	עמו			1000	100	2000	1300	4300	400
Unit Apache		13 22S 30E	2456 FSL,		100		1500		400
706H	TBD		869 FEL	1000		2000		4500	
James Ranch			320 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	950 FEL	1000		2000		4500	
707H James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		24 22S 30E	380 FNL,						100
708H	TBD		949 FEL	1000		2000		4500	
James Ranch			348 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	849 FEL	1000		2000		4500	
709H James Ranch	TBD			1000	100	2000	1300	4500	400
Unit Apache		24 22S 30E	410 FNL,		100		1300		700
710H	TBD		948 FEL	1000		2000		4500	
James Ranch			318 FNL,		100		1300		400
Unit Apache	TDD	24 22S 30E	850 FEL	1000		2000	1	4500	
711H James Ranch	TBD			1000	100	2000	1000	4500	300
Unit Apache		13 22S 30E	2546 FSL,		100		1000		300
801H	TBD		867 FEL	2000		6000		7000	
James Ranch			446 FSL,		100		1000		300
Unit Apache	TDD	13 22S 30E	963 FEL	2000		6000		7000	
802H	TBD	<u> </u>		2000	_1	6000	1	7000	

James Ranch			476 FSL,		100		1000		300
Unit Apache 803H	TBD	13 22S 30E	963 FEL	2000		6000		7000	
James Ranch	IBD			2000	100	0000	1000	7000	300
Unit Apache		24 22S 30E	378 FNL,		100		1000		300
804H	TBD	24 225 30L	849 FEL	2000		6000		7000	
James Ranch	TDD			2000	200	0000	1100	7000	500
Unit Apache		13 22S 30E	2457 FSL,		200		1100		300
901H	TBD	15 225 502	969 FEL	2000		5000		8000	
James Ranch			50 ( FGI		200		1100		500
Unit Apache		13 22S 30E	506 FSL, 964 FEL						
902H	TBD		964 FEL	2000		5000		8000	
James Ranch			294 EGI		200		1100		500
Unit Apache		13 22S 30E	386 FSL, 962 FEL						
903H	TBD		902 FEL	2000		5000		8000	
James Ranch	1		440 FNL,		200		1100		500
Unit Apache		24 22S 30E	948 FEL						
904H	TBD		7401EE	2000		5000		8000	
James Ranch			2287 FSL,		200		1100		500
Unit Apache		24 22S 30E	971 FEL						
906H	TBD		J, IIEE	2000		5000		8000	
James Ranch	TBD		000 555		100		1000		300
Unit Apache			909 FEL,	•					
805H	TDD	24 22S 30E	1526 FNL	2000		6000	4.00	7000	100
James Ranch	TBD		909 FEL,		200		1400		400
Unit Apache 116H		24 22S 30E	909 FEL, 1556 FNL	2000		5000		7000	
James Ranch	TBD	24 22S 30E 24 22S 30E	1330 FNL	2000	200	3000	1100	7000	500
Unit Apache	IBD	24 223 30E	908 FEL,		200		1100		300
905H			1616 FNL	2000		5000		8000	
James Ranch	TBD	24 22S 30E	TOTOTIVE	2000	100	3000	1000	0000	300
Unit Apache	100	24 225 30L	906 FEL,		100		1000		300
806Н			1646 FNL	2000		6000		7000	
James Ranch	TBD	24 22S 30E			200		1400		400
Unit Apache			907 FEL,				- 100		
117H			1676 FNL	2000		5000		7000	
James Ranch	TBD	24 22S 30E			200		1100		500
Unit Apache			930 FEL,						
907H	<u> </u>		389 FSL	2000		5000		8000	
James Ranch	TBD	24 22S 30E			100		1000		300
Unit Apache			929 FEL,						
807H	1		359 FSL	2000		6000		7000	
James Ranch	TBD	24 22S 30E			100		1000		300
Unit Apache			929 FEL,						
808H			329 FSL	2000		6000		7000	

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

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

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

James Ranch Unit Apache 138H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit		TBD	TBD	TBD	TBD	TBD
Apache 139H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 140H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 141H	TBD					
James Ranch Unit Apache 131H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 132H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 133H  James Ranch Unit		TBD	TBD	TBD	TBD	TBD
Apache 134H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 111H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 112H	TBD					
James Ranch Unit Apache 113H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 114H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 115H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 701H  James Ranch Unit		TBD	TBD	TBD	TBD	TBD
Apache 702H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 703H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 704H	TBD					
James Ranch Unit Apache 705H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 706H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 707H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 708H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit		TBD	TBD	TBD	TBD	TBD
Apache 709H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 710H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 711H	TBD	TBD		TBD	TBD	
James Ranch Unit Apache 801H	TBD		TBD			TBD
James Ranch Unit Apache 802H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 803H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit		TBD	TBD	TBD	TBD	TBD
Apache 804H James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 901H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 902H  James Ranch Unit	TBD	TBD	TBD	TBD	TBD	TBD
Apache 903H	TBD					
James Ranch Unit Apache 904H	TBD	TBD	TBD	TBD	TBD	TBD
James Ranch Unit Apache 906H	TBD	TBD	TBD	TBD	TBD	TBD
					<u>.</u>	

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

VI. Separation Equipment: 

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

VII. Operational Practices: 

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

VIII. Best Management Practices: 

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

# Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

# IX. Anticipated Natural Gas Production:

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

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

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

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

XII. Line Capacity. The natural	gas gathering system 🗆 wil	l □ will not have capacity	to gather 100% of	the anticipated natu	ral gas
production volume from the well	prior to the date of first prod	uction.			

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

_	- · · ·						
	Attach Operato	or's plan to	manage pro	duction i	in response	to the increas	sed line pressiire

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

# Section 3 - Certifications Effective May 25, 2021

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

🗵 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. 

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

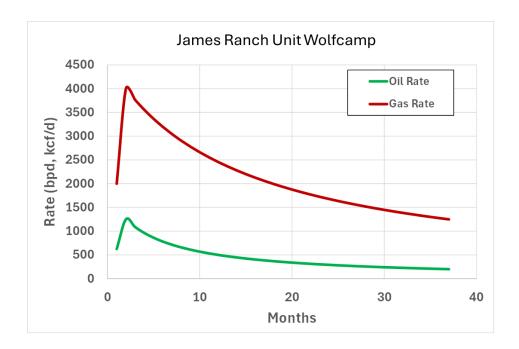
# **Section 4 - Notices**

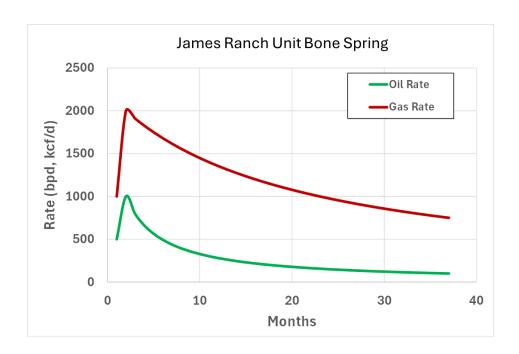
- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:	APAL
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.

# PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

# JRU Apache DR Lease Number NMNM089051 XTO Permian Operating LLC

### TABLE OF CONTENTS

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

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

**Approval Date: 10/28/2024** 

#### I. GENERAL PROVISIONS

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

### II. PERMIT EXPIRATION

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

# III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

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

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

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

# IV. NOXIOUS WEEDS

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

# V. SPECIAL REQUIREMENT(S)

#### Watershed:

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

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

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

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

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

#### **Potash Resources:**

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

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

# VI. CONSTRUCTION

#### Α. **NOTIFICATION**

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

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

#### B. **TOPSOIL**

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

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

#### C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

#### D. FEDERAL MINERAL MATERIALS PIT

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

#### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

# F. EXCLOSURE FENCING (CELLARS & PITS)

#### **Exclosure Fencing**

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

#### G. ON LEASE ACCESS ROADS

#### **Road Width**

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

#### Surfacing

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

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

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

## Crowning

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

### **Ditching**

Ditching shall be required on both sides of the road.

#### **Turnouts**

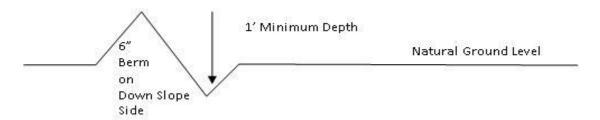
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

#### **Drainage**

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

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

#### **Cross Section of a Typical Lead-off Ditch**



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

### Formula for Spacing Interval of Lead-off Ditches

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

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

#### Cattle guards

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

### Fence Requirement

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

#### **Public Access**

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

# **Construction Steps**

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

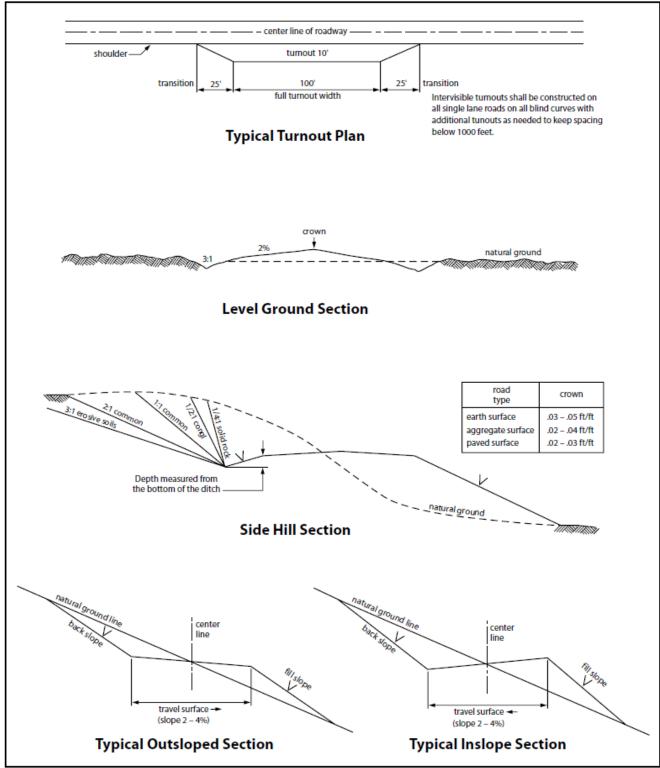


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

# VII. PRODUCTION (POST DRILLING)

#### A. WELL STRUCTURES & FACILITIES

#### Placement of Production Facilities

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

### **Exclosure Netting (Open-top Tanks)**

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

#### Chemical and Fuel Secondary Containment and Exclosure Screening

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

#### **Open-Vent Exhaust Stack Exclosures**

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

#### **Containment Structures**

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

#### **Painting Requirement**

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

#### В. **PIPELINES**

# STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

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

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

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

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

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized right-of-way width of <u>30</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.
- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of \_\_\_\_\_\_6 \_\_\_\_inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

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

OR

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

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

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

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

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

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

#### **BURIED PIPELINE STIPULATIONS**

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

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

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

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

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

Pipeline info for the 30ft flowline to the MSO Corridor

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

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

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

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

- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 10. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately \_\_\_\_6\_\_\_ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 11. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 12. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 13. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 14. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

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

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

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

OR

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

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

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

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

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

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

#### C. **ELECTRIC LINES**

#### STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

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

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

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

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

OR

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

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

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

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

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

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

#### 13. Special Stipulations:

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

#### VIII. INTERIM RECLAMATION

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

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

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

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

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

## IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

## **Seed Mixture 2, for Sandy Sites**

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

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

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

## **Species**

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

\*Pounds of pure live seed:

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

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** XTO

**00LEASE NO.: NMNM89051** 

**LOCATION:** Sec. 13, T.22 S, R 30 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: JRU Apache Fed Com 803H

**SURFACE HOLE FOOTAGE:** 356'/S & 921'/E **BOTTOM HOLE FOOTAGE:** 2310'/S & 50'/W

WELL NAME & NO.: JRU Apache Fed Com 903H

**SURFACE HOLE FOOTAGE:** 386'/S & 922'/E **BOTTOM HOLE FOOTAGE:** 1650'/S & 50'/W

WELL NAME & NO.: JRU Apache Fed Com 907H

**SURFACE HOLE FOOTAGE:** 389'/S & 930'/E **BOTTOM HOLE FOOTAGE:** 1650'/S & 2590'/E

COA

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

## A. HYDROGEN SULFIDE

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

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

## B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 730 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 pounds compressive strength</u>, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch 1<sup>st</sup> Intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

- 3. The minimum required fill of cement behind the **7-5/8** inch 2<sup>nd</sup> Intermediate casing is: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.
  - a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon** at 6620'.
  - b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement should tie-back to 500ft within previous casing shoe but below the Marker Bed 126. If cement does not reach to the desired depth, the appropriate BLM office shall be notified.

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

Operator has proposed to pump down Intermediate 1 X Intermediate 2 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between

second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

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

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

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

- 4. The minimum required fill of cement behind the  $5-1/2 \times 5$ -inch production casing is:
  - Cement should tie-back **500 feet** into the previous casing. Operator shall provide method of verification.

## C. PRESSURE CONTROL

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

e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

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

## **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## **WIPP Requirements**

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

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

- a) Indication of any well collision event,
- b) Suspected well fluid flow (oil, gas, or produced water) outside of casing,
- c) Sustained annulus pressure between the 1st intermediate and next innermost casing string in excess of 500 psi above the baseline pressure of the well, or above 1500 psi total,

- d) Increasing pressure buildup rates (psi/day) across multiple successive bleed-off cycles on the annulus between the 1st intermediate and next innermost casing during well production, or
- e) Sustained losses in excess of 50% through the salt formation during drilling.

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

## **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

## **Offline Cementing**

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

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

## **Casing Clearance**

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

## GENERAL REQUIREMENTS

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

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

## **Contact Eddy County Petroleum Engineering Inspection Staff:**

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

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

## A. CASING

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

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

#### **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

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

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

## C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Approved by Zota Stevens on 10/17/2024 575-234-5998 / zstevens@blm.gov



APD ID: 10400085904

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

# Drilling Plan Data Report

**Submission Date:** 06/07/2022

**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: JRU APACHE FEDERAL COM

Well Number: 907H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

## **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14396072	QUATERNARY	3392	0	0	ALLUVIUM	USEABLE WATER	N
14396079	RUSTLER	2894	498	498	SANDSTONE, SILTSTONE	USEABLE WATER	N
14396074	TOP SALT	2602	790	790	SALT	POTASH	N
14396075	BASE OF SALT	-253	3645	3645	SALT	POTASH	N
14396076	DELAWARE	-512	3904	3904	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14396077	BONE SPRING	-7532	10924	10924	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

## **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M Rating Depth: 10882

**Equipment:** Once the permanent WH is installed on the surface casing, the blow out preventer equipment (BOP) will consist of a minimum 5M Hydril and a minimum 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 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.

Well Name: JRU APACHE FEDERAL COM Well Number: 907H

## **Choke Diagram Attachment:**

5MCM\_20240722190630.pdf

## **BOP Diagram Attachment:**

Apache\_5MBOP\_20211110052936.pdf

## **Section 3 - Casing**

L Casing ID	String Type	Hole Size	0 Sg Size 0 Sg Size 13.375	S Condition	E Standard	Z Tapered String	O Top Set MD	Bottom Set MD	O Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	94 Calculated casing length MD	Grade	Weight 74.5	☐ Joint Type	Collapse SF	Burst SF	Joint SF Type	90.4 SP	Body SF Type	3S Apod 20.4
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3745	0	3745	3344	-353	3745	J-55	40	BUTT	2.11	1.39	DRY	4.21	DRY	4.21
3	INTERMED IATE	8.75	7.625	NEW	API	Y	0	10015	0	10015	0	-6623	10015	HCL -80	29.7	FJ	2.66	1.92	DRY	2.66	DRY	2.66
4	PRODUCTI ON	6.75	5.0	NEW	NON API	Υ	0	19107	0	10882	3344	-7490	19107	HCP -110		OTHER - Talon HTQ/Freedo m HTQ	2.25	1.16	DRY	9.9	DRY	9.9

## **Casing Attachments**

Casing ID: 1 String SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Apache\_\_\_Casing\_Design\_20241010043200.pdf

Well Name: JRU APACHE FEDERAL COM Well Number: 907H

Casing Attachments

Casing ID: 2

String

**INTERMEDIATE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

Apache\_\_\_Casing\_Design\_20241010043123.pdf

Casing ID: 3

**String** 

**INTERMEDIATE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Apache\_\_\_Casing\_Design\_20241010043212.pdf

Casing Design Assumptions and Worksheet(s):

Apache\_\_\_Casing\_Design\_20241010043229.pdf

Casing ID: 4

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

Freedom\_Semi\_Premium\_5.5000\_23.0000\_0.4150\_\_P110\_RY\_20240918135327.pdf Talon\_\_Semiflush\_HTQ\_RD\_5.5000\_23.0000\_0.4150\_\_P110\_RY\_20240918135326.pdf

USS\_Freedom\_Production\_Casing\_5\_inch\_spec\_sheet\_20240731050046.pdf

**Tapered String Spec:** 

Apache\_\_\_Casing\_Design\_20241010043138.pdf

Casing Design Assumptions and Worksheet(s):

Apache\_\_\_Casing\_Design\_20241010043148.pdf

**Section 4 - Cement** 

Well Name: JRU APACHE FEDERAL COM Well Number: 907H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	765	500	1.87	12.9	935	100	EconoCem- HLTRRC	None
SURFACE	Tail		0	765	300	1.35	14.8	405	100	Halcem-C	2% CaCL
INTERMEDIATE	Lead		0	3745	1600	1.39	12.9	2224	100	С	None
INTERMEDIATE	Tail		0	3745	200	1.35	14.8	270	100	С	2% CaCl
INTERMEDIATE	Lead		0	3745	500	2.77	10.5	1385	100	С	None
INTERMEDIATE	Tail		3745	1001 5	720	1.35	14.8	972	100	С	None
PRODUCTION	Lead		1088 2	1910 7	150	2.77	10.5	415.5	100	NeoCem	None
PRODUCTION	Tail		1088 2	1910 7	1620	1.51	13.2	2446. 2	100	VersaCem	None

## **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**

Well Name: JRU APACHE FEDERAL COM Well Number: 907H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	765	WATER-BASED MUD	8.7	9.2							
765	3904	SALT SATURATED	10.5	11							
3904	1001 5	OTHER : BDE/OBM	9	9.5							
1001 5	1910 7	OIL-BASED MUD	10.5	11							

## **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,

Coring operation description for the well:

No Coring Operations for Well

## **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 5996 Anticipated Surface Pressure: 3601

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

**Contingency Plans geoharzards description:** 

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO\_Energy\_H2S\_Plan\_Updated\_20240722192301.pdf

Well Name: JRU APACHE FEDERAL COM Well Number: 907H

## **Section 8 - Other Information**

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

Apache\_907H\_DD\_20220607173846.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\_907H\_Cmt\_20240722193035.pdf

Apache\_H2S\_Dia\_20240722193114.pdf

Apache\_MBS\_20240722193308.pdf

4\_String\_Wellbore\_diagram\_with\_pop\_valve\_and\_engineered\_weak\_point\_20240918140711.pdf

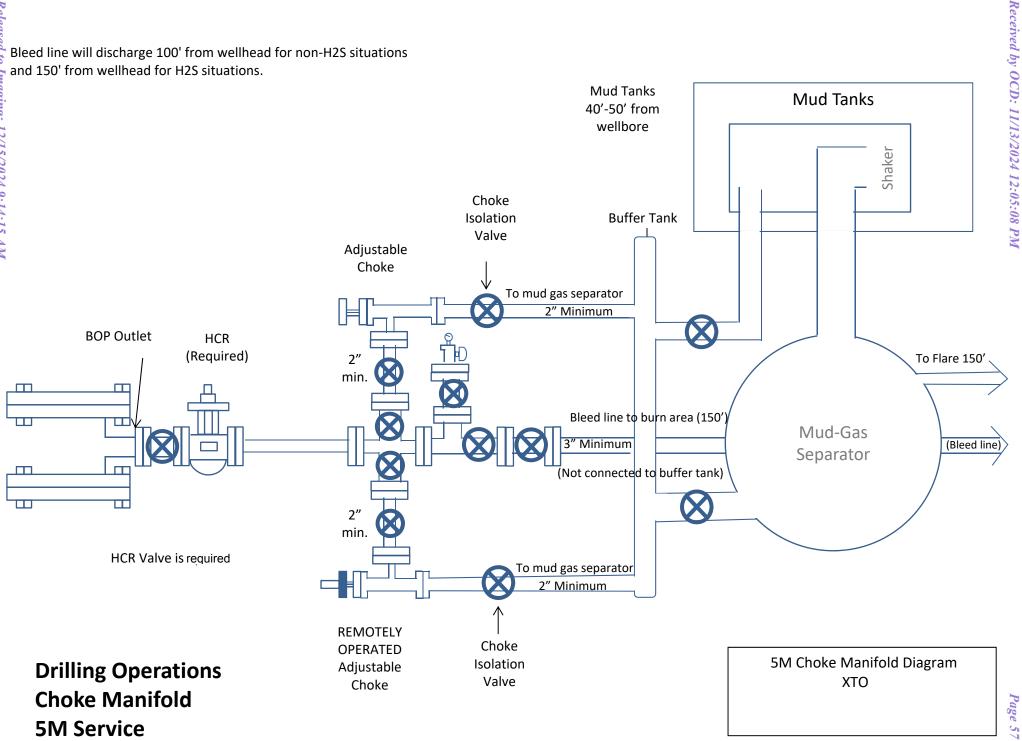
## Other Variance attachment:

Updated\_Flex\_Hose\_20240722193400.pdf

Offline\_Cement\_Variance\_Surf\_\_\_Interm\_Csg\_20240722193359.pdf

Spudder\_Rig\_Request\_20240731110042.pdf

Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



Received by OC Hole Size	D: 11/13/2024 12 Depth	2:05:08 <i>PM</i> OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SPage Collapse	58 of 104 Tension
17.5	0' - 749'	13.375	54.5	J-55	BTC	New	2.29	3.33	20.90
12.25	0' - 3729'	9.625	40	J-55	BTC	New	1.39	2.12	4.22
8.75	0' - 3829'	7.625	29.7	RY P-110	Flush Joint	New	2.96	2.77	1.88
8.75	3829' – 10015'	7.625	29.7	HC L-80	Flush Joint	New	2.15	2.66	2.21
6.75	0' – 9915'	5.5	23	RY P-110	Freedom HTQ	New	1.21	2.69	2.60
6.75	9915' - 9337'	5.5	23	RY P-110	Talon HTQ	New	1.21	2.85	11.48
6.75	9337' - 17954'	5	18	RY P-110	Freedom HTQ	New	1.16	2.51	8.77



## **HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN**

## **Assumed 100 ppm ROE = 3000'**

100 ppm H2S concentration shall trigger activation of this plan.

## **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

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

## Ignition of Gas source

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

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

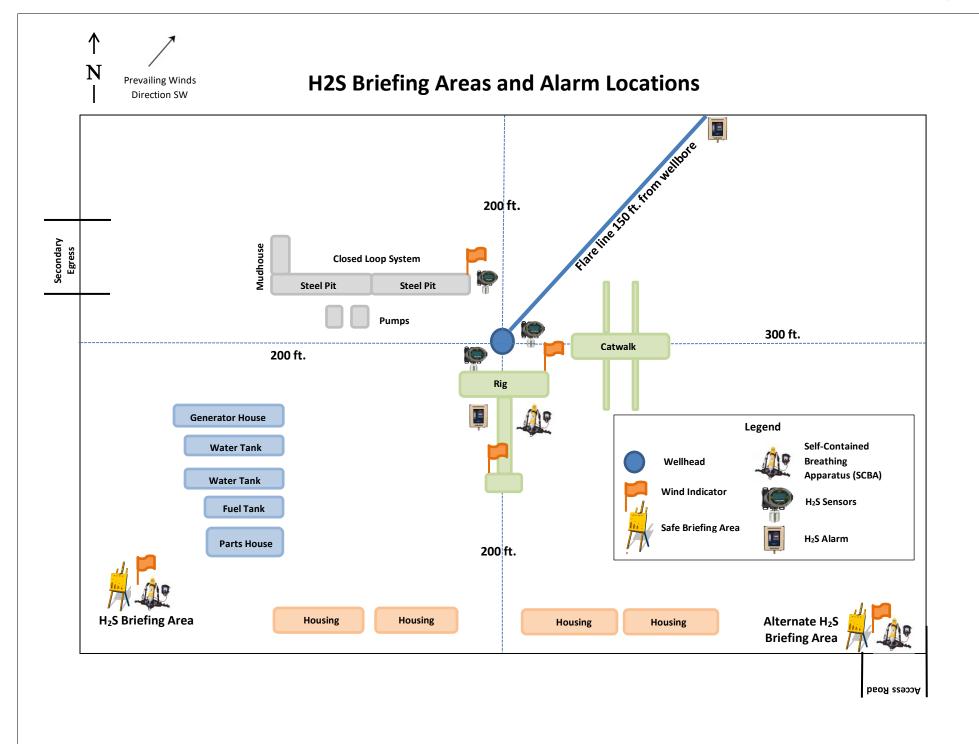
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = I	2 ppm	N/A	1000 ppm

## **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
For Eddy County:	
Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283





# **XTO Energy**

Eddy County, NM (NAD-27) JRU APACHE FEDERAL COM 907H

Wellbore #1

**Plan: PERMIT** 

# **Standard Planning Report**

19 March, 2022

3205 00 Castile Anhydrite 2 Top 3300.00 Castile Anhydrite 2 Base 3645.00 Base Salt Delaware/Lamar 3904.00 3954.00 Bell Canyon 5146.00 Cherry Canyon 6646.00 Brushy Canyon Ss 7804.00 Bone Spring Lm. 7884.00 Avalon Ss. 8094.00 Upper Avalon Carb. 8174.00 Upper Avalon Sh. 8294.00 Middle Avalon Carb. 8334.00 Lw. Avalon Sh. 8654.00 First Bone Spring Carb. 8844.00 First Bone Spring Ss. 9285.00 Second Bone Spring Carb 9574.00 Second Bone Spring A Ss. 9734.00 Second Bone Spring A/B Carb. 9794.00 Second Bone Spring B Ss. 9914.00 Third Bone Spring Carb. 10119.00 Harkey Ss Third Bone Spring Shale 10214.00 10594.00 Third Bone Spring Ss. 10882.00 Horizontal TD 10924 00 Third Bone Spring Ss.- Red Hills 10981 00 Landing Point

907H LTP 907H BHL: 1650' FSL, 2590' FEL TD at 19106.91

907H BHL: 1650' FSL, 2590' FEL

907H LTP

Vertical Section at 269.85° (1500 usft/in)

7500

6750

8250

PROJECT DETAILS: Eddy County, NM (NAD-27)

907H FTP/ LP

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866

Zone: New Mexico East 3001 System Datum: Mean Sea Level

Latitude

32.3712830

32.3747875 32.3747872

32.3747468

Longitude Shape

1200

Point

Point

2400

South(-)/North(+) (

(1200

usft/in)

-600

-103.8281124 Point

-103.8506782 Point

-103.8508401

-103.8261675

Plan: PERMIT (907H/Wellbore #1)

\*\*Note: this electronic file is provided for information purposes only. Prototype Well Planning LLC, it's employees, and agents make no guarantee or anty, expressed or implied, as to the accuracy of this electronica file. The data included here and may be subject to error, while corruption, change, thout any notice to the user. Prototype Well Planning LLC, it's employees, and it's agents assume no responsibility, expressed or nges incurred either directly or indirectly by the use of this electronica file. The users agree to the above specified terms of this electronic verify the data enclosed to ascertain its accuracy for their intended use. If these conditions are unacceptable, user shall discard this data.\*\*\*

750

1500

2250

3000

3750

4500

5250

6000

Start DLS 10.00 TFO -134.45

907H FTP/ LP

2000

3000

4000

6000

₹ 7000

9000-

10000-

(2000

Cherry Canyon

Brushy Canyon Ss.

Bone Spring Lm.

**Upper Avalon Carb** 

Middle Avalon Carb. Upper Avalon Sn.

Lw. Avalon Sh. First Bone Spring Carb.

First Bone Spring Ss.

Second Bone Spring Carb.

Harkey Ss. Third Bone Spring Shale

Wolfcamp X Ss. Wolfcamp Y Ss.

-1500

Wolfcamp A

Third Bone Spring Ss.
Third Bone Spring Ss.- Red Hills
Wolfcamp Shale

-750

Created By: Matthew May

907H SHL: 389' FSL, 930' FEL

Date: 12:22, March 19 2022

District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

│ AMENDED RI	EPOR'
」AMENDED RI	EPOR

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, NM 87505

<sup>1</sup> API Numbe	er	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name	
30-015-				
<sup>4</sup> Property Code		<sup>5</sup> Pr	operty Name	<sup>6</sup> Well Number
		JRU APACI	HE FEDERAL COM	907H
<sup>7</sup> OGRID No.		8 O <sub>l</sub>	perator Name	<sup>9</sup> Elevation
373075		XTO E	ENERGY, INC.	3,392'

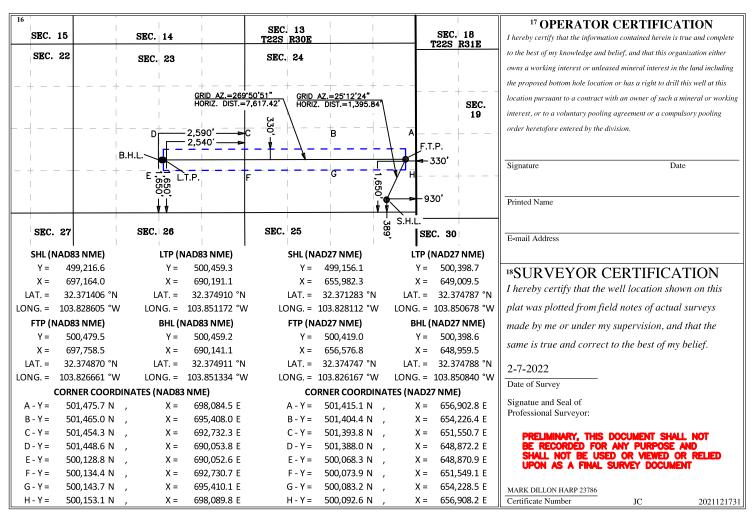
## <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	22 S	30 E		389	SOUTH	930	EAST	EDDY

#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	23	22 S	30 E		1,650	SOUTH	2,590	EAST	EDDY
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code					der No.				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

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

Well: 907H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 907H

RKB = 32' @ 3424.00usft RKB = 32' @ 3424.00usft

Grid

Minimum Curvature

Project Eddy County, NM (NAD-27)

Map System: Geo Datum:

Site

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

JRU APACHE FEDERAL COM

Site Position: Northing: 506,623.30 usft Latitude: 32.3918094 -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 907H

 Well Position
 +N/-S
 -7,467.20 usft
 Northing:
 499,156.10 usft
 Latitude:
 32.3712830

 +E/-W
 28.30 usft
 Easting:
 655,982.30 usft
 Longitude:
 -103.8281124

Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,392.00 usft

Wellbore #1

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2020
 03/19/22
 6.59
 59.97
 47,476

**Design** PERMIT

**Audit Notes:** 

Version: Phase: PLAN Tie On Depth: 0.00

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

 0.00
 0.00
 0.00
 269.85

Plan Section	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	
2,580.96	11.62	45.00	2,576.98	41.51	41.51	2.00	2.00	0.00	45.00	
10,499.47	11.62	45.00	10,333.23	1,169.24	1,169.21	0.00	0.00	0.00	0.00	
11,488.94	90.74	269.85	10,981.00	1,262.90	594.50	10.00	8.00	-13.66	-134.45	907H FTP/ LP
19,056.90	90.74	269.85	10,882.65	1,242.63	-6,972.80	0.00	0.00	0.00	0.00	907H LTP
19,106.91	90.74	269.85	10,882.00	1,242.50	-7,022.80	0.00	0.00	0.00	0.00	907H BHL: 1650' F



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

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

Well: 907H Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 907H

RKB = 32' @ 3424.00usft

RKB = 32' @ 3424.00usft

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
498.00		0.00	498.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler 500.00 600.00 700.00 790.00 Salado/To	0.00 0.00 0.00	0.00 0.00 0.00 0.00	500.00 600.00 700.00 790.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	-								
800.00 900.00 1,000.00 1,100.00 1,200.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	800.00 900.00 1,000.00 1,100.00 1,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1,300.00 1,400.00 1,500.00 1,600.00 1,700.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,300.00 1,400.00 1,500.00 1,600.00 1,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1,800.00 1,900.00 2,000.00 2,100.00 2,200.00	0.00 0.00 2.00	0.00 0.00 0.00 45.00 45.00	1,800.00 1,900.00 2,000.00 2,099.98 2,199.84	0.00 0.00 0.00 1.23 4.93	0.00 0.00 0.00 1.23 4.93	0.00 0.00 0.00 -1.24 -4.95	0.00 0.00 0.00 2.00 2.00	0.00 0.00 0.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
2,300.00 2,400.00 2,500.00 2,547.32	8.00 10.00 10.95	45.00 45.00 45.00 45.00	2,299.45 2,398.70 2,497.47 2,544.00	11.10 19.71 30.78 36.86	11.10 19.71 30.77 36.86	-11.13 -19.77 -30.86 -36.95	2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00
2,580.96	nhydrite 1 Top 11.62	45.00	2,576.98	41.51	41.51	-41.62	2.00	2.00	0.00
2,600.00 2,700.00 2,800.00 2,900.00 2,981.18	11.62 11.62 11.62 11.62 11.62	45.00 45.00 45.00 45.00 45.00	2,595.64 2,693.59 2,791.54 2,889.49 2,969.00	44.22 58.47 72.71 86.95 98.51	44.22 58.46 72.70 86.95 98.51	-44.34 -58.62 -72.89 -87.17 -98.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
	nhydrite 1 Base								
3,000.00 3,100.00 3,200.00 3,222.11	11.62 11.62 11.62	45.00 45.00 45.00 45.00	2,987.44 3,085.39 3,183.34 3,205.00	101.19 115.43 129.67 132.82	101.19 115.43 129.67 132.82	-101.45 -115.73 -130.01 -133.17	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	nhydrite 2 Top	45.00	2 204 22	440.00	4.40.04	444.00	0.00	0.00	0.00
3,300.00 3,319.10		45.00 45.00	3,281.29 3,300.00	143.92 146.64	143.91 146.63	-144.29 -147.01	0.00	0.00 0.00	0.00 0.00
Castile Aı	nhydrite 2 Base	•							
3,400.00 3,500.00 3,600.00 3,671.32	11.62 11.62 11.62	45.00 45.00 45.00 45.00	3,379.24 3,477.19 3,575.14 3,645.00	158.16 172.40 186.64 196.80	158.15 172.39 186.63 196.79	-158.57 -172.84 -187.12 -197.31	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
3,700.00		45.00	3,673.09	200.88	200.88	-201.40	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

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

Well: 907H Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 907H

RKB = 32' @ 3424.00usft RKB = 32' @ 3424.00usft

Plann	ed 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	11.62	45.00	3,771.05	215.12	215.12	-215.68	0.00	0.00	0.00
	3,900.00	11.62	45.00	3,869.00	229.37	229.36	-229.96	0.00	0.00	0.00
	3,935.74	11.62	45.00	3,904.00	234.46	234.45	-235.06	0.00	0.00	0.00
	Delaware/L 3,986.78 Bell Canyo	11.62	45.00	3,954.00	241.73	241.72	-242.35	0.00	0.00	0.00
	4,000.00	11.62	45.00	3,966.95	243.61	243.60	-244.24	0.00	0.00	0.00
	4,100.00	11.62	45.00	4,064.90	257.85	257.84	-258.52	0.00	0.00	0.00
	4,200.00	11.62	45.00	4,162.85	272.09	272.08	-272.79	0.00	0.00	0.00
	4,300.00	11.62	45.00	4,260.80	286.33	286.32	-287.07	0.00	0.00	0.00
	4,400.00	11.62	45.00	4,358.75	300.57	300.56	-301.35	0.00	0.00	0.00
	4,500.00	11.62	45.00	4,456.70	314.82	314.81	-315.63	0.00	0.00	0.00
	4,600.00	11.62	45.00	4,554.65	329.06	329.05	-329.91	0.00	0.00	0.00
	4,700.00	11.62	45.00	4,652.60	343.30	343.29	-344.19	0.00	0.00	0.00
	4,800.00	11.62	45.00	4,750.55	357.54	357.53	-358.46	0.00	0.00	0.00
	4,900.00	11.62	45.00	4,848.50	371.78	371.77	-372.74	0.00	0.00	0.00
	5,000.00	11.62	45.00	4,946.46	386.03	386.01	-387.02	0.00	0.00	0.00
	5,100.00	11.62	45.00	5,044.41	400.27	400.25	-401.30	0.00	0.00	0.00
	5,200.00	11.62	45.00	5,142.36	414.51	414.50	-415.58	0.00	0.00	0.00
	5,203.72	11.62	45.00	5,146.00	415.04	415.02	-416.11	0.00	0.00	0.00
	5,300.00	11.62	45.00	5,240.31	428.75	428.74	-429.86	0.00	0.00	0.00
	5,400.00	11.62	45.00	5,338.26	442.99	442.98	-444.14	0.00	0.00	0.00
	5,500.00	11.62	45.00	5,436.21	457.23	457.22	-458.41	0.00	0.00	0.00
	5,600.00	11.62	45.00	5,534.16	471.48	471.46	-472.69	0.00	0.00	0.00
	5,700.00	11.62	45.00	5,632.11	485.72	485.70	-486.97	0.00	0.00	0.00
	5,800.00	11.62	45.00	5,730.06	499.96	499.94	-501.25	0.00	0.00	0.00
	5,900.00	11.62	45.00	5,828.01	514.20	514.18	-515.53	0.00	0.00	0.00
	6,000.00	11.62	45.00	5,925.96	528.44	528.43	-529.81	0.00	0.00	0.00
	6,100.00	11.62	45.00	6,023.91	542.68	542.67	-544.09	0.00	0.00	0.00
	6,200.00	11.62	45.00	6,121.86	556.93	556.91	-558.36	0.00	0.00	0.00
	6,300.00	11.62	45.00	6,219.82	571.17	571.15	-572.64	0.00	0.00	0.00
	6,400.00 6,500.00 6,600.00 6,700.00 6,735.10	11.62 11.62 11.62 11.62	45.00 45.00 45.00 45.00 45.00	6,317.77 6,415.72 6,513.67 6,611.62 6,646.00	585.41 599.65 613.89 628.13 633.13	585.39 599.63 613.87 628.11 633.11	-586.92 -601.20 -615.48 -629.76 -634.77	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
	Brushy Ca	_								
	6,800.00	11.62	45.00	6,709.57	642.38	642.36	-644.03	0.00	0.00	0.00
	6,900.00	11.62	45.00	6,807.52	656.62	656.60	-658.31	0.00	0.00	0.00
	7,000.00	11.62	45.00	6,905.47	670.86	670.84	-672.59	0.00	0.00	0.00
	7,100.00	11.62	45.00	7,003.42	685.10	685.08	-686.87	0.00	0.00	0.00
	7,200.00	11.62	45.00	7,101.37	699.34	699.32	-701.15	0.00	0.00	0.00
	7,300.00	11.62	45.00	7,199.32	713.58	713.56	-715.43	0.00	0.00	0.00
	7,400.00	11.62	45.00	7,297.27	727.83	727.80	-729.71	0.00	0.00	0.00
	7,500.00	11.62	45.00	7,395.23	742.07	742.04	-743.98	0.00	0.00	0.00
	7,600.00	11.62	45.00	7,493.18	756.31	756.29	-758.26	0.00	0.00	0.00
	7,700.00	11.62	45.00	7,591.13	770.55	770.53	-772.54	0.00	0.00	0.00
	7,800.00	11.62	45.00	7,689.08	784.79	784.77	-786.82	0.00	0.00	0.00
	7,900.00	11.62	45.00	7,787.03	799.04	799.01	-801.10	0.00	0.00	0.00
	7,917.33	11.62	45.00	7,804.00	801.50	801.48	-803.57	0.00	0.00	0.00
	<b>Bone Spri</b> 7,999.00	<b>ng Lm.</b> 11.62	45.00	7,884.00	813.13	813.11	-815.23	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

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

907H Well: Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 907H

RKB = 32' @ 3424.00usft

RKB = 32' @ 3424.00usft

ed Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Avalon Ss.									
8,000.00	11.62	45.00	7,884.98	813.28	813.25	-815.38	0.00	0.00	0.00
8,100.00	11.62	45.00	7,982.93	827.52	827.49	-829.66	0.00	0.00	0.00
8,200.00 8,213.39	11.62 11.62	45.00 45.00	8,080.88 8,094.00	841.76 843.67	841.73 843.64	-843.93 -845.85	0.00 0.00	0.00 0.00	0.00 0.00
Upper Aval		45.00	6,094.00	043.07	043.04	-040.00	0.00	0.00	0.00
8,295.07	11.62	45.00	8,174.00	855.30	855.27	-857.51	0.00	0.00	0.00
Upper Aval	on Sh.								
8,300.00	11.62	45.00	8,178.83	856.00	855.97	-858.21	0.00	0.00	0.00
8,400.00	11.62	45.00	8,276.78	870.24	870.22	-872.49	0.00	0.00	0.00
8,417.58	11.62	45.00	8,294.00	872.75	872.72	-875.00	0.00	0.00	0.00
Middle Ava 8,458.41	lon Carb. 11.62	45.00	8,334.00	878.56	878.53	-880.83	0.00	0.00	0.00
Lw. Avalon		45.00	0,334.00	070.00	010.33	-000.03	0.00	0.00	0.00
8,500.00	11.62	45.00	8,374.73	884.49	884.46	-886.77	0.00	0.00	0.00
8,600.00	11.62	45.00	8,472.68	898.73	898.70	-901.05	0.00	0.00	0.00
8,700.00	11.62	45.00	8,570.64	912.97	912.94	-915.33	0.00	0.00	0.00
8,785.11	11.62	45.00	8,654.00	925.09	925.06	-927.48	0.00	0.00	0.00
8.800.00	Spring Carb. 11.62	45.00	8,668.59	927.21	927.18	-929.60	0.00	0.00	0.00
8,900.00	11.62	45.00 45.00	8,766.54	941.45	941.42	-929.60 -943.88	0.00	0.00	0.00
8,979.08	11.62	45.00	8,844.00	952.72	952.68	-955.18	0.00	0.00	0.00
First Bone	Spring Ss.								
9,000.00	11.62	45.00	8,864.49	955.69	955.66	-958.16	0.00	0.00	0.00
9,100.00	11.62	45.00	8,962.44	969.94	969.90	-972.44	0.00	0.00	0.00
9,200.00 9,300.00	11.62 11.62	45.00 45.00	9,060.39 9,158.34	984.18 998.42	984.15 998.39	-986.72 -1,001.00	0.00 0.00	0.00 0.00	0.00 0.00
9,400.00	11.62	45.00	9,256.29	1,012.66	1,012.63	-1,015.28	0.00	0.00	0.00
9,429.31	11.62	45.00	9,285.00	1,016.84	1,016.80	-1,019.46	0.00	0.00	0.00
Second Bo	ne Spring Ca		•	,	,	•			
9,500.00	11.62	45.00	9,354.24	1,026.90	1,026.87	-1,029.55	0.00	0.00	0.00
9,600.00 9,700.00	11.62 11.62	45.00 45.00	9,452.19 9,550.14	1,041.14 1,055.39	1,041.11 1,055.35	-1,043.83 -1,058.11	0.00 0.00	0.00 0.00	0.00 0.00
9,724.36	11.62	45.00	9,574.00	1,058.86	1,058.82	-1,030.11	0.00	0.00	0.00
	ne Spring A S			•	•				
9,800.00	11.62	45.00	9,648.09	1,069.63	1,069.59	-1,072.39	0.00	0.00	0.00
9,887.70	11.62	45.00	9,734.00	1,082.12	1,082.08	-1,084.91	0.00	0.00	0.00
	ne Spring A/E		. =						
9,900.00 9,948.96	11.62 11.62	45.00 45.00	9,746.04 9,794.00	1,083.87 1,090.84	1,083.83 1,090.81	-1,086.67 -1,093.66	0.00 0.00	0.00 0.00	0.00 0.00
•	ne Spring B S		3,134.00	1,050.04	1,080.01	-1,033.00	0.00	0.00	0.00
10,000.00	11.62	45.00	9,844.00	1,098.11	1,098.08	-1,100.95	0.00	0.00	0.00
10,071.47	11.62	45.00	9,914.00	1,108.29	1,108.25	-1,111.15	0.00	0.00	0.00
	Spring Carb.		-,	.,	.,	.,	3.55	0.00	5.55
10,100.00	11.62	45.00	9,941.95	1,112.35	1,112.32	-1,115.23	0.00	0.00	0.00
10,200.00	11.62	45.00	10,039.90	1,126.60	1,126.56	-1,129.50	0.00	0.00	0.00
10,280.76 Harkey Ss.	11.62	45.00	10,119.00	1,138.10	1,138.06	-1,141.03	0.00	0.00	0.00
10,300.00	11.62	45.00	10,137.85	1,140.84	1,140.80	-1,143.78	0.00	0.00	0.00
10,377.75	11.62	45.00	10,214.00	1,151.91	1,151.87	-1,154.88	0.00	0.00	0.00
	Spring Shale		10,∠14.00	1,101.91	1,101.0/	-1,104.08	0.00	0.00	0.00
10,400.00	11.62	45.00	10,235.80	1,155.08	1,155.04	-1,158.06	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

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

Well: 907H Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 907H

RKB = 32' @ 3424.00usft

RKB = 32' @ 3424.00usft

Plann	ed 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)
	10,499.47	11.62	45.00	10,333.23	1,169.24	1,169.21	-1,172.26	0.00	0.00	0.00
	10,550.00	8.84	20.85	10,382.97	1,176.48	1,174.19	-1,177.27	10.00	-5.50	-47.80
	10,600.00	8.47	347.23	10,432.44	1,183.66	1,174.74	-1,177.84	10.00	-0.74	-67.22
	10,650.00	10.73	320.04	10,481.76	1,190.82	1,170.94	-1,174.05	10.00	4.51	-54.39
	10,700.00	14.42	304.35	10,530.56	1,197.91	1,162.80	-1,165.94	10.00	7.39	-31.37
	10,750.00	18.72	295.34	10,578.48	1,204.86	1,150.40	-1,153.55	10.00	8.60	-18.04
	10,766.46	20.21	293.20	10,594.00	1,207.11	1,145.40	-1,148.56	10.00	9.02	-12.97
		Spring Ss.	000.07	40.005.45	4 044 00	4 400 00	4 407 00	40.00	0.04	40.50
	10,800.00	23.30	289.67	10,625.15	1,211.63	1,133.83	-1,137.00	10.00	9.21	-10.52
	10,850.00	28.01	285.80	10,670.21	1,218.16	1,113.21	-1,116.39	10.00	9.43	-7.74
	10,900.00	32.80	282.98	10,713.33	1,224.40	1,088.70	-1,091.90	10.00	9.59	-5.65
	10,950.00	37.65	280.81	10,754.16	1,230.31	1,060.48	-1,063.70	10.00	9.68	-4.34
	11,000.00	42.52	279.07	10,792.41	1,235.84	1,028.78	-1,032.01	10.00	9.75	-3.48
	11,050.00	47.41	277.63	10,827.77	1,240.95	993.83	-997.07	10.00	9.79	-2.89
	11,100.00 11,137.61 <b>Horizontal</b>	52.32 56.03	276.40 275.57	10,859.99 10,882.00	1,245.60 1,248.78	955.90 925.57	-959.15 -928.84	10.00 10.00	9.82 9.84	-2.46 -2.19
	11,150.00	57.25	275.32	10,888.81	1,249.76	915.27	-918.54	10.00	9.85	-2.06
	11,200.00	62.18	274.35	10,914.02	1,253.39	872.26	-875.54	10.00	9.86	-1.93
	11,222.19	64.37	273.95	10,924.00	1,254.82	852.50	-855.78	10.00	9.87	-1.80
	Third Bone	Spring Ss F	Red Hills							
	11,250.00	67.11	273.47	10,935.43	1,256.46	827.20	-830.49	10.00	9.87	-1.73
	11,300.00	72.05	272.65	10,952.86	1,258.96	780.42	-783.72	10.00	9.88	-1.64
	11,350.00	77.00	271.88	10,966.20	1,260.86	732.29	-735.59	10.00	9.89	-1.55
	11,400.00	81.94	271.13	10,975.34	1,262.15	683.16	-686.46	10.00	9.89	-1.49
	11,450.00	86.89	270.41	10,980.20	1,262.81	633.42	-636.72	10.00	9.90	-1.45
	11,488.94	90.74	269.85	10,981.00	1,262.90	594.50	-597.80	10.00	9.90	-1.44
	Landing Po 11,500.00 11,600.00 11,700.00 11,800.00	90.74 90.74 90.74 90.74 90.74	269.85 269.85 269.85 269.85	10,980.86 10,979.56 10,978.26 10,976.96	1,262.87 1,262.60 1,262.33 1,262.07	583.44 483.45 383.45 283.46	-586.74 -486.75 -386.76 -286.77	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	11,900.00	90.74	269.85	10,975.66	1,261.80	183.47	-186.77	0.00	0.00	0.00
	12,000.00	90.74	269.85	10,974.36	1,261.53	83.48	-86.78	0.00	0.00	0.00
	12,100.00	90.74	269.85	10,973.06	1,261.26	-16.51	13.21	0.00	0.00	0.00
	12,200.00	90.74	269.85	10,971.76	1,261.00	-116.50	113.20	0.00	0.00	0.00
	12,300.00	90.74	269.85	10,970.46	1,260.73	-216.49	213.19	0.00	0.00	0.00
	12,400.00	90.74	269.85	10,969.16	1,260.46	-316.48	313.18	0.00	0.00	0.00
	12,500.00	90.74	269.85	10,967.86	1,260.19	-416.48	413.18	0.00	0.00	0.00
	12,600.00	90.74	269.85	10,966.56	1,259.92	-516.47	513.17	0.00	0.00	0.00
	12,700.00	90.74	269.85	10,965.26	1,259.66	-616.46	613.16	0.00	0.00	0.00
	12,800.00	90.74	269.85	10,963.96	1,259.39	-716.45	713.15	0.00	0.00	0.00
	12,900.00	90.74	269.85	10,962.66	1,259.12	-816.44	813.14	0.00	0.00	0.00
	13,000.00	90.74	269.85	10,961.36	1,258.85	-916.43	913.13	0.00	0.00	0.00
	13,100.00	90.74	269.85	10,960.06	1,258.59	-1,016.42	1,013.12	0.00	0.00	0.00
	13,200.00	90.74	269.85	10,958.76	1,258.32	-1,116.41	1,113.12	0.00	0.00	0.00
	13,300.00	90.74	269.85	10,957.46	1,258.05	-1,216.41	1,213.11	0.00	0.00	0.00
	13,400.00	90.74	269.85	10,956.16	1,257.78	-1,316.40	1,313.10	0.00	0.00	0.00
	13,500.00	90.74	269.85	10,954.87	1,257.51	-1,416.39	1,413.09	0.00	0.00	0.00
	13,600.00	90.74	269.85	10,953.57	1,257.25	-1,516.38	1,513.08	0.00	0.00	0.00
	13,700.00	90.74	269.85	10,952.27	1,256.98	-1,616.37	1,613.07	0.00	0.00	0.00
	13,800.00	90.74	269.85	10,950.97	1,256.71	-1,716.36	1,713.07	0.00	0.00	0.00
	13,900.00	90.74	269.85	10,949.67	1,256.44	-1,816.35	1,813.06	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: 907H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 907H

RKB = 32' @ 3424.00usft

RKB = 32' @ 3424.00usft

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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.00	90.74	269.85	10,948.37	1,256.18	-1,916.34	1,913.05	0.00	0.00	0.00
14,100.00	90.74	269.85	10,947.07	1,255.91	-2,016.33	2,013.04	0.00	0.00	0.00
14,200.00	90.74	269.85	10,945.77	1,255.64	-2,116.33	2,113.03	0.00	0.00	0.00
14,300.00	90.74	269.85	10,944.47	1,255.37	-2,216.32	2,213.02	0.00	0.00	0.00
14,400.00	90.74	269.85	10,943.17	1,255.10	-2,316.31	2,313.01	0.00	0.00	0.00
14,500.00	90.74	269.85	10,941.87	1,254.84	-2,416.30	2,413.01	0.00	0.00	0.00
14,600.00	90.74	269.85	10,940.57	1,254.57	-2,516.29	2,513.00	0.00	0.00	0.00
14,700.00	90.74	269.85	10,939.27	1,254.30	-2,616.28	2,612.99	0.00	0.00	0.00
14,800.00	90.74	269.85	10,937.97	1,254.03	-2,716.27	2,712.98	0.00	0.00	0.00
14,900.00	90.74	269.85	10,936.67	1,253.77	-2,816.26	2,812.97	0.00	0.00	0.00
15,000.00	90.74	269.85	10,935.37	1,253.50	-2,916.26	2,912.96	0.00	0.00	0.00
15,100.00	90.74	269.85	10,934.07	1,253.23	-3,016.25	3,012.96	0.00	0.00	0.00
15,200.00	90.74	269.85	10,932.77	1,252.96	-3,116.24	3,112.95	0.00	0.00	0.00
15,300.00	90.74	269.85	10,931.47	1,252.69	-3,216.23	3,212.94	0.00	0.00	0.00
15,400.00	90.74	269.85	10,930.17	1,252.43	-3,316.22	3,312.93	0.00	0.00	0.00
15,500.00	90.74	269.85	10,928.87	1,252.16	-3,416.21	3,412.92	0.00	0.00	0.00
15,600.00	90.74	269.85	10,927.57	1,251.89	-3,516.20	3,512.91	0.00	0.00	0.00
15,700.00	90.74	269.85	10,926.27	1,251.62	-3,616.19	3,612.90	0.00	0.00	0.00
15,800.00	90.74	269.85	10,924.98	1,251.36	-3,716.19	3,712.90	0.00	0.00	0.00
15,900.00	90.74	269.85	10,923.68	1,251.09	-3,816.18	3,812.89	0.00	0.00	0.00
16,000.00	90.74	269.85	10,922.38	1,250.82	-3,916.17	3,912.88	0.00	0.00	0.00
16,100.00	90.74	269.85	10,921.08	1,250.55	-4,016.16	4,012.87	0.00	0.00	0.00
16,200.00	90.74	269.85	10,919.78	1,250.28	-4,116.15	4,112.86	0.00	0.00	0.00
16,300.00	90.74	269.85	10,918.48	1,250.02	-4,216.14	4,212.85	0.00	0.00	0.00
16,400.00	90.74	269.85	10,917.18	1,249.75	-4,316.13	4,312.85	0.00	0.00	0.00
16,500.00	90.74	269.85	10,915.88	1,249.48	-4,416.12	4,412.84	0.00	0.00	0.00
16,600.00	90.74	269.85	10,914.58	1,249.21	-4,516.11	4,512.83	0.00	0.00	0.00
16,700.00	90.74	269.85	10,913.28	1,248.95	-4,616.11	4,612.82	0.00	0.00	0.00
16,800.00	90.74	269.85	10,911.98	1,248.68	-4,716.10	4,712.81	0.00	0.00	0.00
16,900.00	90.74	269.85	10,910.68	1,248.41	-4,816.09	4,812.80	0.00	0.00	0.00
17,000.00	90.74	269.85	10,909.38	1,248.14	-4,916.08	4,912.80	0.00	0.00	0.00
17,100.00	90.74	269.85	10,908.08	1,247.87	-5,016.07	5,012.79	0.00	0.00	0.00
17,200.00	90.74	269.85	10,906.78	1,247.61	-5,116.06	5,112.78	0.00	0.00	0.00
17,300.00	90.74	269.85	10,905.48	1,247.34	-5,216.05	5,212.77	0.00	0.00	0.00
17,400.00	90.74	269.85	10,904.18	1,247.07	-5,316.04	5,312.76	0.00	0.00	0.00
17,500.00	90.74	269.85	10,902.88	1,246.80	-5,416.04	5,412.75	0.00	0.00	0.00
17,600.00	90.74	269.85	10,901.58	1,246.54	-5,516.03	5,512.74	0.00	0.00	0.00
17,700.00	90.74	269.85	10,900.28	1,246.27	-5,616.02	5,612.74	0.00	0.00	0.00
17,800.00	90.74	269.85	10,898.98	1,246.00	-5,716.01	5,712.73	0.00	0.00	0.00
17,900.00	90.74	269.85	10,897.68	1,245.73	-5,816.00	5,812.72	0.00	0.00	0.00
18,000.00	90.74	269.85	10,896.39	1,245.46	-5,915.99	5,912.71	0.00	0.00	0.00
18,100.00	90.74	269.85	10,895.09	1,245.20	-6,015.98	6,012.70	0.00	0.00	0.00
18,200.00	90.74	269.85	10,893.79	1,244.93	-6,115.97	6,112.69	0.00	0.00	0.00
18,300.00	90.74	269.85	10,892.49	1,244.66	-6,215.97	6,212.69	0.00	0.00	0.00
18,400.00	90.74	269.85	10,891.19	1,244.39	-6,315.96	6,312.68	0.00	0.00	0.00
18,500.00	90.74	269.85	10,889.89	1,244.13	-6,415.95	6,412.67	0.00	0.00	0.00
18,600.00	90.74	269.85	10,888.59	1,243.86	-6,515.94	6,512.66	0.00	0.00	0.00
18,700.00	90.74	269.85	10,887.29	1,243.59	-6,615.93	6,612.65	0.00	0.00	0.00
18,800.00	90.74	269.85	10,885.99	1,243.32	-6,715.92	6,712.64	0.00	0.00	0.00
18,900.00	90.74	269.85	10,884.69	1,243.05	-6,815.91	6,812.63	0.00	0.00	0.00
19,000.00	90.74	269.85	10,883.39	1,242.79	-6,915.90	6,912.63	0.00	0.00	0.00
19,056.90	90.74	269.85	10,882.65	1,242.63	-6,972.80	6,969.52	0.00	0.00	0.00
19,106.91	90.74	269.85	10,882.00	1,242.50	-7,022.80	7,019.52	0.00	0.00	0.00



Formations

## **Planning Report**

Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

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

Well: 907H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 907H

RKB = 32' @ 3424.00usft RKB = 32' @ 3424.00usft

Grid

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
907H SHL: 389' FSL, - plan hits target ce - Point	0.00 nter	0.00	0.00	0.00	0.00	499,156.10	655,982.30	32.3712830	-103.8281124
907H BHL: 1650' FSL - plan hits target ce - Point	0.00 nter	0.00	10,882.00	1,242.50	-7,022.80	500,398.60	648,959.50	32.3747876	-103.8508401
907H LTP - plan misses targe - Point	0.00 t center by 0		10,882.65 19056.90u	1,242.60 sft MD (1088	-6,972.80 32.65 TVD, 1	500,398.70 242.63 N, -6972.8	649,009.50 80 E)	32.3747872	-103.8506782
907H FTP/ LP - plan hits target ce - Point	0.00 nter	0.00	10,981.00	1,262.90	594.50	500,419.00	656,576.80	32.3747468	-103.8261675

Formations	Measured Depth	Vertical Depth			Dip	Dip Direction
	(usft)	(usft)	Name	Lithology	(°)	(°)
	498.00	498.00	Rustler			
	790.00	790.00	Salado/Top of Salt			
	2,547.32	2,544.00	Castile Anhydrite 1 Top			
	2,981.18	2,969.00	Castile Anhydrite 1 Base			
	3,222.11	3,205.00	Castile Anhydrite 2 Top			
	3,319.10	3,300.00	Castile Anhydrite 2 Base			
	3,671.32	3,645.00	Base Salt			
	3,935.74	3,904.00	Delaware/Lamar			
	3,986.78	3,954.00	Bell Canyon			
	5,203.72	5,146.00	Cherry Canyon			
	6,735.10	6,646.00	Brushy Canyon Ss.			
	7,917.33	7,804.00	Bone Spring Lm.			
	7,999.00	7,884.00	Avalon Ss.			
	8,213.39	8,094.00	Upper Avalon Carb.			
	8,295.07	8,174.00	Upper Avalon Sh.			
	8,417.58	8,294.00	Middle Avalon Carb.			
	8,458.41	8,334.00	Lw. Avalon Sh.			
	8,785.11	8,654.00	First Bone Spring Carb.			
	8,979.08	8,844.00	First Bone Spring Ss.			
	9,429.31	9,285.00	Second Bone Spring Carb.			
	9,724.36	9,574.00	Second Bone Spring A Ss.			
	9,887.70	9,734.00	Second Bone Spring A/B Carb.			
	9,948.96	9,794.00	Second Bone Spring B Ss.			
	10,071.47	9,914.00	Third Bone Spring Carb.			
	10,280.76	10,119.00	Harkey Ss.			
	10,377.75	10,214.00	Third Bone Spring Shale			
	10,766.46	10,594.00	Third Bone Spring Ss.			
	11,137.61	10,882.00	Horizontal TD			
	11,222.19	10,924.00	Third Bone Spring Ss Red Hills			
	11,488.94	10,981.00	Landing Point			



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

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

Well: 907H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 907H

RKB = 32' @ 3424.00usft RKB = 32' @ 3424.00usft

Grid

#### **Cement Variance Request**

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6646') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

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

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

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

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

ALL DIMENSIONS APPROXIMAL

# CACTUS WELLHEAD LLC

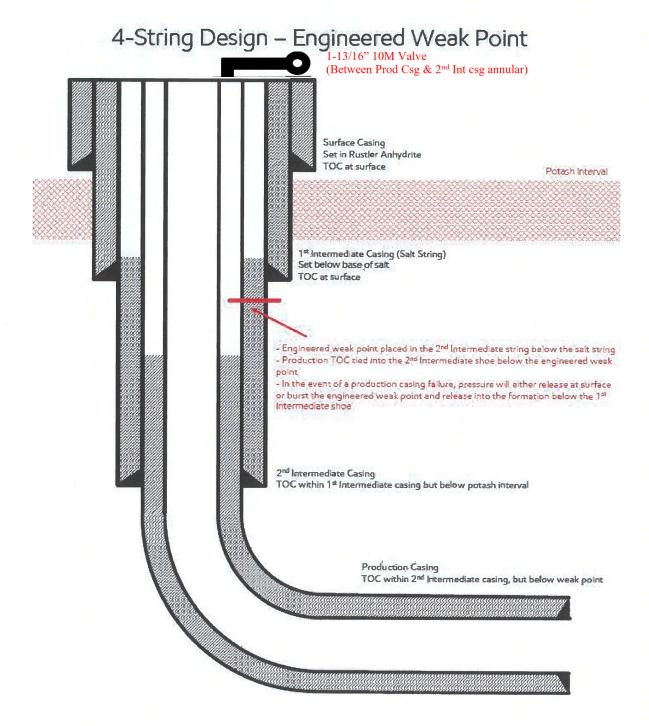
(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And Drilling & Skid Configurations

	XTO ENERGY INDELAWARE BASI	
DRAWN	VJK	31MAR2
APPRV		

DRAWING NO.

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

SDT-3301



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

31592723\_v1

Received by OCD: 11/13/2024 12:05:08 PM

#### Update May 2024:

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

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



**GATES ENGINEERING & SERVICES NORTH AMERICA** 

7603 Prairie Oak Dr.

Houston, TX. 77086

PHONE: +1 (281) 602-4100

FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com

WEB: www.gates.com/ollandgas

NEW CHOKE HOSE

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.

CII	CT	OM	ED.	
CU	31	CIAI	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

1/25/2024 11:48:06 AM



# **TEST REPORT**

CUSTOMER

Company:

Nabors Industries Inc.

**TEST OBJECT** 

Serial number: H3-012524-1

Lot number:

Production description:

529480

74621/66-1531

Description:

74621/66-1531

Sales order #: Customer reference:

FG1213

Hose ID:

3" 16C CK

**TEST INFORMATION** 

Test procedure:

GTS-04-053 15000.00

psi sec Fitting 1: Part number:

Part number:

3.0 x 4-1/16 10K

Test pressure hold: Work pressure:

Test pressure:

3600.00 10000.00

Description:

Work pressure hold:

900.00

psi sec

Fitting 2:

3.0 x 4-1/16 10K

45

Length difference: Length difference: 0.00 0.00 % inch

Part number: Description:

Length:

feet

n . . . . /n

Visual check:

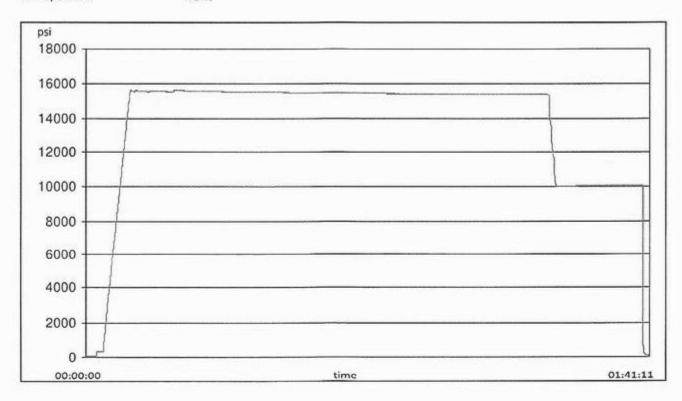
Pressure test result:

Length measurement result:

PASS

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			
Comment			

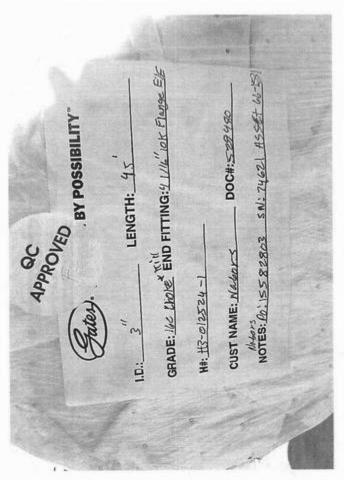


Released to Imaging: 12/15/2024 9:14:15 AM









Released to Imaging: 12/15/2024 9:14:15 AM

#### **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

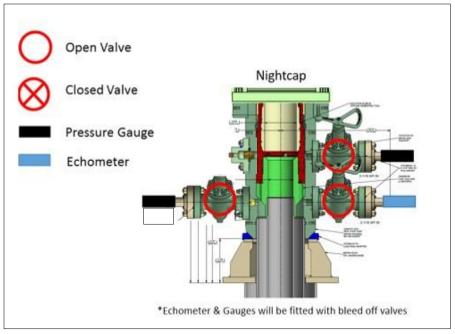
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

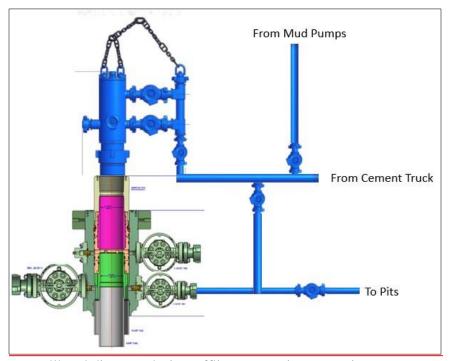
#### **XTO Permian Operating, LLC Offline Cementing Variance Request**



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:

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



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

**APD ID:** 10400085904

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Submission Date: 06/07/2022

Highlighted data reflects the most recent changes

Show Final Text

**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: JRU APACHE FEDERAL COM

Well Type: OIL WELL

Well Number: 907H

Well Work Type: Drill

# **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

Apache\_907H\_Road\_20220607202449.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

Width (ft.): 30

Max slope (%): 2

**Max grade (%):** 3

Army Corp of Engineers (ACOE) permit required? N

Feet

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: 907H

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 .2 miles. Then turn left (east) on lease road for approximately .8 miles, then turn left (north) on lease road for approximately .6 miles then turn left (North) on lease road for approximately .9 miles. Then turn right (East) for approximately .1 miles. Then turn left (north0 for .8 miles arriving at proposed road. Location is to the West. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, Vicinity Map.

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: 907H

# **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 25kv to properly run expected production equipment. 18,218.31ft of electrical will be run from the anticipated tie-in point with a request for 30 ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

# **Production Facilities map:**

Apache\_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: 907H

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: PIPELINE

**TRUCKING** 

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: TRUCKING

**PIPELINE** 

Source land ownership: COMMERCIAL

Well Name: JRU APACHE FEDERAL COM Well Number: 907H

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\_907H\_Wtr\_20220607202545.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 aquifer:

**Aquifer comments:** 

**Aquifer documentation:** 

Well depth (ft): Well casing type:

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

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

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

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Well Name: JRU APACHE FEDERAL COM Well Number: 907H

# **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 containmant attachment:

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

**FACILITY** 

Disposal type description:

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

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency: One Time Only

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

style mud boxes.

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: 907H

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: 907H

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\_WSL\_Pad\_F\_20220922173606.pdf Apache\_907H\_Well\_20240725073321.pdf

Apache\_Rig\_Layout\_907H\_20240731070426\_20240918140754.pdf

Comments:

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

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

Multiple Well Pad Number: 1

#### Recontouring

Apache\_IR\_1\_20220922173634.pdf

Apache\_IR\_4\_20220922173635.pdf

Apache\_IR\_2\_20220922173636.pdf

Apache\_IR\_3\_20220922173636.pdf

Apache\_IR\_6\_20220922173636.pdf

Apache\_IR\_5\_20220922173636.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: 907H

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

sturbance (acres): Other interim reclamation (acres): 0
turbance: 139.69 Total interim reclamation: 45.73

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

(acres): 69.78

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 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

Road interim reclamation (acres): 0

Pipeline interim reclamation (acres):

**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: 907H

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

**Seed Table** 

**Seed Summary** 

Total pounds/Acre:

**Seed Type** 

Pounds/Acre

Seed reclamation

# **Operator Contact/Responsible Official**

First Name: James Last Name: Scott

Phone: Email: James.scott@exxonmobil.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: 907H

Success standards: 100% compliance with applicable regulations.

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

Pit closure attachment:	
Section 11 - Surface Ownership	
Disturbance type: WELL PAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance turns EVICTING ACCESS DOAD	
Disturbance type: EXISTING ACCESS ROAD	
Describe: Surface Owner: PLIPEALLOE LAND MANAGEMENT	
Surface Owner: BUREAU OF LAND MANAGEMENT  Other surface owner description:	
Other surface owner description: BIA Local Office:	
BOR Local Office:	
COE Local Office:	

DOD Local Office: NPS Local Office: State Local Office:

Well Name: JRU APACHE FEDERAL COM	Well Number: 907H
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:** 

Operator Name: XTO PERMIAN OPERATING LLC Well Name: JRU APACHE FEDERAL COM Well Number: 907H **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** Ranger District:

**USFS** Forest/Grassland:

Well Name: JRU APACHE FEDERAL COM Well Number: 907H

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: 907H

# 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
Apache\_SUPO\_20211110052600.pdf
Apache\_Well\_List\_20211110052524.pdf

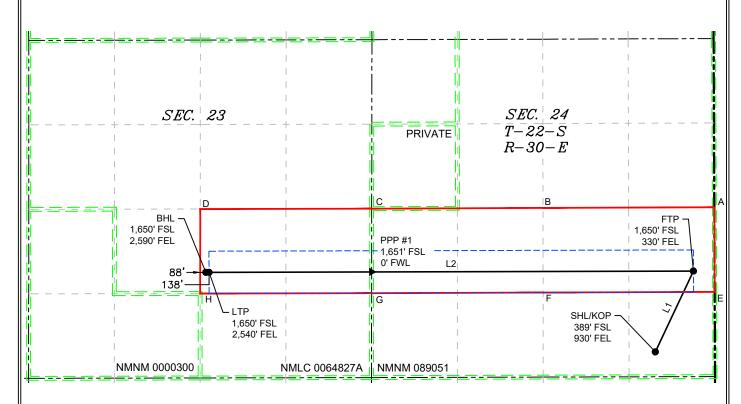
160.00 Infill Order Numbers. R-279-0  UL Section Township P 24 22S  UL Section Township J 23 22S  Unitized Area or Area of Interest NMNM-070965X  OPERATOR CERTIFICATIONS  I hereby certify that the information contest of my knowledge and belief, and, in that this organization either owns a women the land including the proposed bottom at this location pursuant to a contract with the land including the proposed bottom at this location pursuant to a contract when the land including the proposed bottom at this location pursuant to a contract when the land including the proposed bottom at this location pursuant to a contract when the land including the proposed bottom at this location pursuant to a contract when the land including the proposed bottom and the land including order of heretofore entered by	Range 30E Range 30E Range 30E
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If this well is a horizontal well, I furthe received the consent of at least one less unleased mineral interest in each tract which any part of the well's completed compulsory pooling order from the divi	if the well orking inte ttom hole le t with an over ary pooling the division the certify the see or own the tinterval well the tail
Jena Austin	11/13 Date
/ Jena Austin Printed Name Jena.N.Austin@ExxonMob Email Address	bil.com
Note: No allowable will be a	

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								Submital		
								Type:	☐ As Drilled	Сероп
									As Drilled	
API Nu	ımber		Pool Code		WELL LOCA	TION INFORMATION Pool Name				
AIINu		5-55861	4029			Los Medanos	; Bone Sp	oring		
Property	-		Property N	lame	I.				Well Number	
OGRID	33656	<i>51</i>	0	Y	JRU APAC	HE FEDERAL COM			Ground Level	907H
JGKID	37307	<b>'</b> 5	Operator N	vame	XTO PERMIA	N OPERATING, LLC	Э.			1,392'
Surface	Owner: S	tate	 ]Tribal ⊠Fe	deral		Mineral Owner: □S	State Fee	☐Tribal 🏻	Federal	
	Ι	I	1.	1.	_	e Hole Location	1			
UL -	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Р	24	228	30E		389 FSL	930 FEL	32.371	1406	103.828605	EDDY
						n Hole Location		!		_
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
J	23	22\$	30E		1,650 FSL	2,590 FEL	32.374	1911	103.851334	EDDY
	ted Acres	Infill or Defin	ning Well	Defining	g Well API	Overlapping Spacing N	Unit (Y/N)	Consolida	tion Code P	
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Order N	Numbers.	R-279	)-C			Well Setbacks are und	ler Common (	Ownership:	⊠Yes □No	
					Kick (	Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Р	24	228	30E		389 FSL	930 FEL	32.371	406	103.828605	EDDY
					First T	ake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
ı	24	228	30E		1,650 FSL	330 FEL	32.374	1870 -	103.826661	EDDY
					LastT	also Daint (LTD)				
UL	Section	Township	Range	Lot	Ft. from N/S	Reference (ATP)  Ft. from E/W	Latitude		Longitude	County
J	23	228	30E		1,650 FSL	2,540 FEL	32.374	1910	103.851172	EDDY
					1,,					
Initize	d Area or Are	a of Interest		Ι			Grou	nd Elevation		
	MNM-070			Spacing U	Init Type : Horiz	zontal  Vertical		21 <b>0</b> ( <b>a</b>	3,392'	
							'			
OPERA	TOR CERTI	FICATIONS				SURVEYOR CERTIFIC	ATIONS			
					and complete to the directional well,	I hereby certify that the vactual surveys made by n				
	and including	the proposed be	ottom hole loc	ation or has	sed mineral interest s a right to drill this	correct to the best of my	belief	•		
		ant to a contrac erest, or a volun	tary pooling a	agreement o					N DILLON	4.
at this le unlease		etofore entered l						J.	HEN MEX/CO	KARIS
at this lo unleased pooling	order of here									
at this lounleased nooling If this we received	order of here well is a horized the consent	ontal well, I furt of at least one l	essee or owne						23788 I	ا سم (
at this le unlease pooling If this w received unlease which a	order of here  yell is a horize  d the consent  d mineral into  iny part of the	of at least one le erest in each tra e well's complete	essee or owne ct (in the targ ed interval wil	et pool or ii	nformation) in			PAO	23786	) <b>%</b>
at this le unlease pooling If this w received unlease which a	order of here  yell is a horize  d the consent  d mineral into  iny part of the	of at least one le crest in each tra	essee or owne ct (in the targ ed interval wil	et pool or ii	nformation) in	1/	1/	PROFES	23786	FYOR
at this lounlease, pooling of this we received unlease, which a compuls	order of here well is a horize of the consent of mineral inte any part of the sory pooling of	of at least one le erest in each tra well's complete order from the a	essee or owne ct (in the targ ed interval wil livision.	tet pool or in ll be located	nformation) in			PHOFIE	23786	No.
at this lounlease, pooling this we received unlease, which a compuls	order of here well is a horize the consent d mineral into any part of the	of at least one le erest in each tra well's complete order from the a	essee or owne ct (in the targ ed interval wil	tet pool or in ll be located	nformation) in	Signature and Seal of Pro	offessional Surr		23786 S/ONAL 9	URIA BO
at this lounlease, pooling of this we received unlease, which a compuls	order of here well is a horize of the consent of mineral inte any part of the sory pooling of	of at least one le erest in each tra well's complete order from the a	essee or owne ct (in the targ ed interval wil livision.	tet pool or in ll be located	nformation) in	Signature and Seal of Pro	offessional Surr		23786 S/ONAL S	NO.
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at this launleased pooling of this we received unleased which a compuls of the pooling of the po	vell is a horized the consent of the	of at least one le erest in each tra well's complete order from the a	essee or owne ct (in the targ d interval wil livision.  11/13/ Date	tet pool or in ll be located	nformation) in		86			NO.
at this launlease, pooling of this we received unlease, which a compuls of the pooling of the po	vell is a horized the consent of the	of at least one le erest in each tra well's complete order from the a	essee or owne ct (in the targ d interval wil livision.  11/13/ Date	tet pool or in ll be located	nformation) in	MARK DILLON HARP 2378	86	veyor		NON NO

#### 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 TABI	-E
LINE	AZIMUTH	LENGTH
L1	02512'30"	1,395.83
L2	269*50'50"	7,617.43

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

	COORE	NIC	TE TAB	<u>LE</u>	
SHL/KOI	P (NAD 83 N	ME)	SHL/KO	P (NAD 27 N	ME)
Y =	499,216.6	N	Y =	499,156.1	Ν
X =	697,164.0	Е	X =	655,982.3	Е
LAT. =	32.371406	°N	LAT. =	32.371283	°N
LONG. =	103.828605	°W	LONG. =	103.828112	°W
FTP (I	NAD 83 NME	<b>:</b> )	FTP (NAD 27 NI		)
Υ=	500,479.5	Ν	Υ=	500,419.0	Ν
X =	697,758.5	Ш	X =	656,576.8	Е
LAT. =	32.374870	°N	LAT. =	32.374747	°N
LONG. =	103.826661	°W	LONG. =	103.826167	°W
PPP #1	(NAD 83 NM	E)	PPP #1	(NAD 27 NM	E)
Υ=	500,466.1	N	Υ=	500,405.5	Ν
X =	692,730.9	Е	X =	651,549.3	Е
LAT. =	32.374897	°N	LAT. =	32.374774	°N
LONG. =	103.842946	°W	LONG. =	103.842452	°W
LTP (I	NAD 83 NME	.)	LTP (I	NAD 27 NME	)
Υ=	500,459.3	Ν	Υ=	500,398.7	Ν
X =	690,191.1	Е	X =	649,009.5	Е
LAT. =	32.374910	°N	LAT. =	32.374787	°N
LONG. =	103.851172	°W	LONG. =	103.850678	°W
BHL (I	VAD 83 NME	.)	BHL (I	NAD 27 NME	Ξ)
Υ=	500,459.2	Ν	Y =	500,398.6	Ν
X =	690,141.1	Е	X =	648,959.5	Е
LAT. =	32.374911	°N	LAT. =	32.374788	°N
LONG. =	103.851334	°W	LONG. =	103.850840	°W

COF	NER COOR	RDIN	ATES (NA	4D 83 NME)	
A-Y=	501,475.7	N	A - X =	698,084.5	Е
B-Y=	501,465.0	N	B-X=	695,408.0	Е
C - Y =	501,454.3	N	C - X =	692,732.3	Е
D-Y=	501,448.6	N	D-X=	690,053.8	Е
E-Y=	500,153.1	Ν	E - X =	698,089.8	Е
F-Y=	500,143.7	N	F-X=	695,410.1	Е
G-Y=	500,134.4	Ν	G-X=	692,730.7	Е
H-Y=	500,128.8	N	H-X=	690,052.6	Е
COF	NER COOF	RDIN	ATES (NA	4D 27 NME)	
A-Y=	501,415.1	N	A - X =	656,902.8	Е
B-Y=	501,404.4	Ν	B-X=	654,226.4	Е
C - Y =	501,393.8	Ν	C - X =	651,550.7	Е
D-Y=	501,388.0	Ν	D - X =	648,872.2	Е
E-Y=	500,092.6	N	E-X=	656,908.2	Е
F-Y=	500,083.2	N	F-X=	654,228.5	Е
G-Y=	500,073.9	N	G-X=	651,549.1	Е
H-Y=	500,068.3	N	H-X=	648,870.9	Ε

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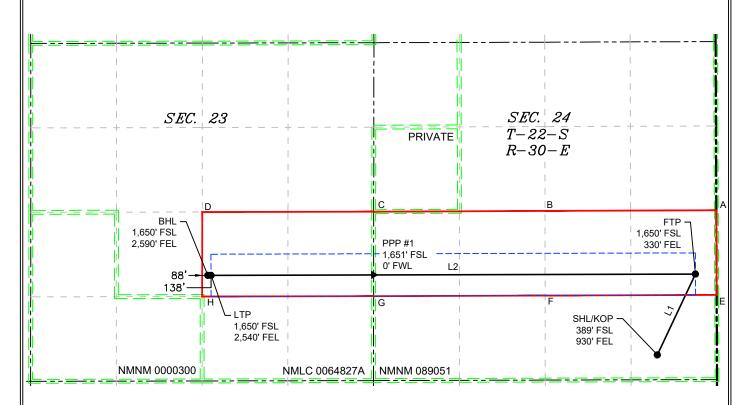
C-102 Sumbit electronically Via OCD Permitting		State of New Energy, Minerals & Natural OIL CONVERSIO			l Resources Department			Ro	evised July, 09 2024			
								Submital	Amended			
								Type:	☐ As Drilled			
									<u>                                     </u>			
API Nu	mber		Pool Code			FION INFORMATION Pool Name						
	30-01	5-55861	9790	05		Wildcat G-07	S2230210	G; Bone	Spring			
Property	Code 3365	67	Property N	ame	JRU APAC	HE FEDERAL COM			Well Number	907H		
OGRID		_	Operator N	lame	VTO DEDMA	N ODEDATING III			Ground Level Elevation			
	37307				XIO PERIMIA	N OPERATING, LL				3,392'		
Surface (	Owner: □S	tate Fee	Tribal 🛮 Fe	deral		Mineral Owner:	State Fee	□Tribal 🔼	Federal			
					Surface	e Hole Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County		
Р	24	228	30E		389 FSL	930 FEL	32.371	406 -	103.828605	EDDY		
JL	Section	Township	Range	Lot	Ft. from N/S	Hole Location Ft. from E/W	Latitude	l 1	ongitude	County		
		1		Lot								
J	23	22\$	30E		1,650 FSL	2,590 FEL	32.374	911  -	103.851334	EDDY		
Dedicated Acres Infill or Defining Well  80.00 Infill			Defining	g Well API	Overlapping Spacing	Unit (Y/N)	Consolidati	on Code				
		D 270										
Order N	umbers.	R-279-	<u> </u>			Well Setbacks are und	der Common C	wnership:	⊠Yes □No			
					Kick O	off Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County		
Р	24	228	30E		389 FSL	930 FEL	32.371	406 -	103.828605	EDDY		
					First Te	ake Point (FTP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	ongitude	County		
	24	228	30E		1,650 FSL	330 FEL	32.374	870 -	103.826661	EDDY		
					.,,,,,,,							
UL	g .:	T 1:	D	T -4	_	Ft. from E/W	T 22 1	1,	24 1	G .		
	Section	Township	Range	Lot	Ft. from N/S		Latitude		ongitude	County		
J	23	228	30E		1,650 FSL	2,540 FEL	32.374	910  -	103.851172	EDDY		
	1 Area or Are			Spacing U	nit Type : 🏿 Horiz	ontal □Vertical	Groun	nd Elevation	3,392'			
DED 4	TOR CERTI	FICATIONS				STIBAEAOD CEDTIERO	TATIONS					
		FICATIONS				SURVEYOR CERTIFICATIONS						
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of heretofore entered by the division.  If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.												
Sena Austin 11/13/24  Senature Date				Signature and Seal of Professional Surveyor								
Jena Austin Printed Name						MARK DILLON HARP 237 Certificate Number		f Survey	11/7/2024			
Jena. <sup>Email A</sup>		@ExxonMo	obil.com			DN			618.01300	2 10-56		

Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

#### ACREAGE DEDICATION PLATS

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LINE TABLE				
LINE	AZIMUTH	LENGTH		
L1	02512'30"	1,395.83		
L2	269*50'50"	7,617.43		

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

COORDINATE TABLE						
SHL/KOP (NAD 83 NME) SHL/KOP (NAD 27 NME)						
Y =	499,216.6	N	Y =	499,156.1	Ν	
X =	697,164.0	Е	X =	655,982.3	Е	
LAT. =	32.371406	°N	LAT. =	32.371283	°N	
LONG. =	103.828605	°W	LONG. =	103.828112	°W	
FTP (I	NAD 83 NME	<b>:</b> )	FTP (I	FTP (NAD 27 NME)		
Υ=	500,479.5	Ν	Υ=	500,419.0	Ν	
X =	697,758.5	Е	X =	656,576.8	Е	
LAT. =	32.374870	°N	LAT. =	32.374747	°N	
LONG. =	103.826661	°W	LONG. =	103.826167	°W	
PPP #1	(NAD 83 NM	E)	PPP #1 (NAD 27 NME)			
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LAT. =	32.374897	°N	LAT. =	32.374774	°N	
LONG. =	103.842946	°W	LONG. =	103.842452	°W	
LTP (I	NAD 83 NME	()	LTP (I	NAD 27 NME	)	
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X =	690,191.1	Е	X =	649,009.5	Е	
LAT. =	32.374910	°N	LAT. =	32.374787	°N	
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BHL (NAD 83 NME)			BHL (NAD 27 NME)			
Υ=	500,459.2	Ν	Y =	500,398.6	Ν	
X =	690,141.1	Е	X =	648,959.5	Е	
LAT. =	32.374911	°N	LAT. =	32.374788	°N	
LONG. =	103.851334	°W	LONG. =	103.850840	°W	

CORNER COORDINATES (NAD 83 NME)						
A-Y=	501,475.7	Z	A - X =	698,084.5	Е	
B-Y=	501,465.0	Ζ	B-X=	695,408.0	Е	
C - Y =	501,454.3	N	C - X =	692,732.3	Е	
D-Y=	501,448.6	N	D-X=	690,053.8	Е	
E-Y=	500,153.1	N	E-X=	698,089.8	Е	
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H-Y=	500,128.8	Ν	H-X=	690,052.6	Е	
COF	NER COOR	RDIN	ATES (NA	AD 27 NME)		
A - Y =	501,415.1	N	A - X =	656,902.8	Е	
B-Y=	501,404.4	Ν	B-X=	654,226.4	Е	
C - Y =	501,393.8	N	C - X =	651,550.7	Е	
D-Y=	501,388.0	N	D - X =	648,872.2	Е	
E-Y=	500,092.6	N	E-X=	656,908.2	Е	
F-Y=	500,083.2	N	F-X=	654,228.5	Е	
G-Y=	500,073.9	N	G-X=	651,549.1	Е	
H-Y=	500,068.3	N	H-X=	648,870.9	Ε	

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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 402969

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	402969
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
jaustin	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/13/2024
jaustin	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/13/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/15/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/15/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/15/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/15/2024
ward.rikala	Operator must comply with all of the R-111-Q requirements.	12/15/2024