FMSS

U.S. Department of the Interior

Bureau of Land Management

APD Package Report

APD ID: 10400094973

Application for Permit to Drill

APD Received Date: 10/01/2023 06:46 PM

Operator: XTO PERMIAN OPERATING LLC

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: 2 file(s)
 - -- Casing Taperd String Specs: 2 file(s)
 - -- Casing Design Assumptions and Worksheet(s): 3 file(s)
 - -- Hydrogen sulfide drilling operations plan: 1 file(s)
 - -- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
 - -- Other Facets: 7 file(s)
 - -- Other Variances: 4 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: 1 file(s)
 - -- Water source and transportation map: 1 file(s)
 - -- Well Site Layout Diagram: 1 file(s)
 - -- Recontouring attachment: 4 file(s)
 - -- Other SUPO Attachment: 2 file(s)
- PWD Report
- PWD Attachments

Date Printed: 10/07/2024 02:36 PM

Well Status: AAPD Well Name: POKER LAKE UNIT 28 BS Well Number: 406H

-- None

Bond ReportBond Attachments

-- None

Form 3160-3 (June 2015)			OMB No	APPROVED b. 1004-0137 nuary 31, 2018					
UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN	5. Lease Serial No. NMLC062140								
	APPLICATION FOR PERMIT TO DRILL OR REENTER								
	EENTER		-	eement, Name and No. /POKER LAKE UNIT					
	Other ingle Zone	✔ Multiple Zone	8. Lease Name and 7 POKER LAKE UNI						
2. Name of Operator XTO PERMIAN OPERATING LLC			9. API Well No.	015-55628					
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970		Io. (include area code) 2277	10. Field and Pool, of JENNINGS/BONE						
 4. Location of Well (Report location clearly and in accordance At surface SENE / 2435 FNL / 719 FEL / LAT 32.1018 At proposed prod. zone SESE / 50 FSL / 1210 FEL / LAT 	58 / LONG -	103.776861	11. Sec., T. R. M. or SEC 28/T25S/R31	Blk. and Survey or Area E/NMP					
14. Distance in miles and direction from nearest town or post off 27 miles	fice*		12. County or Parish EDDY	13. State NM					
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	cres in lease 17. Spac 880.0	ing Unit dedicated to th	nis well					
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet 	19. Propose 11039 feet		1/BIA Bond No. in file OB000050						
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3339 feet	22. Approx 08/21/2024	imate date work will start*	23. Estimated durati45 days	on					
	24. Attac	chments	·						
The following, completed in accordance with the requirements o (as applicable)	of Onshore Oil	and Gas Order No. 1, and the	Hydraulic Fracturing ru	ule per 43 CFR 3162.3-3					
 Well plat certified by a registered surveyor. A Drilling Plan. 	Ň	4. Bond to cover the operation Item 20 above).	•	existing bond on file (see					
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office		 Operator certification. Such other site specific info BLM. 	ormation and/or plans as	may be requested by the					
25. Signature (Electronic Submission)		e (Printed/Typed) SIE EVANS / Ph: (432) 682-	8873	Date 10/01/2023					
Title Regulatory Analyst									
Approved by (Signature) (Electronic Submission)		: (Printed/Typed) Y LAYTON / Ph: (575) 234-5	5959	Date 10/04/2024					
Title Assistant Field Manager Lands & Minerals	Office Carls	e bad Field Office							
Application approval does not warrant or certify that the applicat applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to those rights	s in the subject lease wh	hich would entitle the					
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r of the United States any false, fictitious or fraudulent statements				ny department or agency					



(Continued 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: SENE / 2435 FNL / 719 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101858 / LONG: -103.776861 (TVD: 0 feet, MD: 0 feet) PPP: SENE / 2435 FNL / 1210 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101861 / LONG: -103.778447 (TVD: 11039 feet, MD: 11500 feet) PPP: NENE / 1324 FNL / 1201 FEL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.090346 / LONG: -103.77855 (TVD: 11039 feet, MD: 15800 feet) PPP: SENE / 2649 FNL / 1209 FEL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.101272 / LONG: -103.778449 (TVD: 11039 feet, MD: 11900 feet) PPP: NENE / 0 FNL / 1198 FEL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.093985 / LONG: -103.778469 (TVD: 11039 feet, MD: 14500 feet) PPP: NENE / 0 FNL / 1198 FEL / TWSP: 25S / RANGE: 31E / SECTION: 33 / LAT: 32.093985 / LONG: -103.778469 (TVD: 11039 feet, MD: 14500 feet) BHL: SESE / 50 FSL / 1210 FEL / TWSP: 26S / RANGE: 31E / SECTION: 4 / LAT: 32.064905 / LONG: -103.77855 (TVD: 11039 feet, MD: 24843 feet)

BLM Point of Contact

Name: MARIAH HUGHES Title: Land Law Examiner Phone: (575) 234-5972 Email: mhughes@blm.gov

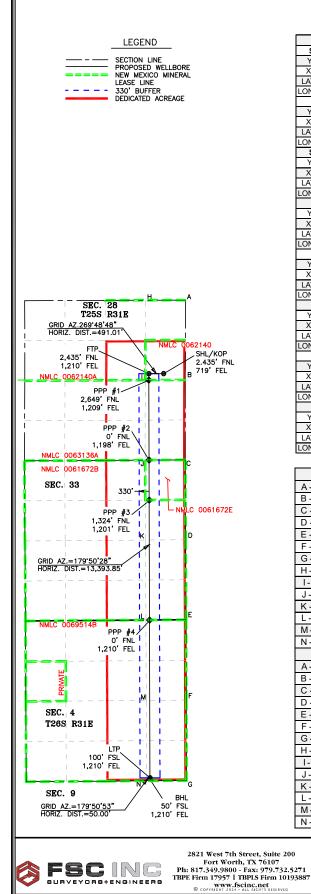
Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

<u>C-10</u>	02			F				ew Mexico					Revised July 9, 2024	
Submit E	lectronically			Ene				ral Resources D	-	nent		X	Initial Submittal	
	Permitting				U.	L CON	SERVA	TION DIVISIO	JN		Submit	tal	Amended Report	
				Type: Andrew										
API Nu	umbor		Bool	Code	N	VELL LO	CATION Pool Nam	N INFORMATION						
30-0	15 -556	628		860				one Spring,West						
Proper	32559	9	Prop	erty Name	POKE	R LAKE UI	NIT 28 BS					Well Ni 406H		
ORGID No. 373075 Operator Name XTO PERMIAN OPERA								G, LLC.					Level Elevation	
Surface	e Owner:	State 🗌 F	iee 🗌	Tribal 🗙 🛛	Federal			Mineral Owner:	State 🗌 F	Fee 🗌 Triba	l 🗙 Fed	eral		
							Surface	Location						
UL H	Section 28	Townshi 25 S	· .	Range 31 E	Lot	Ft. from N 2,43	/S 5' FNL	Ft. from E/W 719' FEL	Latitude 32.101		ongitude -103.77	6861	County EDDY	
								le Location						
UL P	Section 4	Townshi 26 S	*	Range 31 E	Lot	Ft. from N 50' F		Ft. from E/W 1,210' FEL	Latitude 32.0649		mgitude -103.778	8550	County EDDY	
Dedica 880	ted Acres	Infill or D Define	efininį	g Well	Defining NA	g Well API		Overlapping Spacing Ur No	uit (Y/N)	Consolida U	tion Code	;		
Order 1	Numbers.							Well setbacks are under	Common	Ownership: [🗙 Yes [] No		
						I	Kick Off I	Point (KOP)						
UL	Section	Townshi	p	Range	Lot	Ft. from N		Ft. from E/W	Latitude	Lo	ongitude		County	
н	28	25 S		31 E		,	5' FNL	719' FEL	32.101	358 ·	-103.77	5861	EDDY	
UL	Section	Townshi	n	Range	Lot	Ft. from N		Point (FTP) Ft. from E/W	Latitude	L	ongitude		County	
H H	28	25 S		31 E	LOI		5' FNL	1,210' FEL	32.1018		-103.778	8447	EDDY	
	-					L	ast Take]	Point (LTP)						
UL P	Section 4	Townshi 26 S		Range 31 E	Lot	Ft. from N 100'		Ft. from E/W 1,210' FEL	Latitude 32.065		ongitude 103.77	8549	County EDDY	
								.,						
	d Area or Are	ea of Unifor	m Inte	erest	Spacing	g Unit Type	🗙 Horizon	tal 🗌 Vertical	Gr	ound Floor E	levation:	2 220'		
Unitize	d											3,339		
OPE	RATOR C	ERTIFIC	CATI	ONS				SURVEYOR CE	ERTIFIC	ATIONS				
Lhough		the informa		antain of hom		and commute	a ta tha	I hereby certify that t	the well lo	cation shown	on this i	olat was	nlatted from field	
best of	y certify that i my knowledge	e and belief,	and th	hat this orga	nization e	either owns a	working	notes of actual survey is true and correct to	ys made b <u>y</u>	y me or unde				
locatio	t or unleased i n or has a rigi	ht to drill th	is well	l at this loca	tion pursi	ant to a cont	ract with		FXICO PROF		EYOR NO.			
	er of such a n hent or a comp							21209, DO HEREBY CERTI ACTUAL SURVEY ON THE (WERE PERFORMED BY ME THAT I AM RESPONSIBLE I MEETS THE MINIMUM STAN MEXICO, AND THAT IS TRU	GROUND UP OR UNDER FOR THIS SU	ON WHICH IT IS MY DIRECT SU JRVEY, THAT TH	BASED PERVISION;	A IN	C. PAPPA	
	vell is a horize							MEETS THE MINIMUM STAN MEXICO, AND THAT IS TRU MY KNOWLEDGE AND BELIE	IDARDS FOR IE AND COR EF.	SURVEYING IN RECT TO THE E	BEST OF	~~~ \$	W MEXICO	
interes	sent of at leas t in each tract	(in the targ	et pool	ol or formatio	on) in whi	ch any part o	of the well's	al MY KNOWLEDGE AND BELIEF.						
comple division	ted interval w n.	ill be locate	d or oi	btained a co	mpulsory	pooling forn	<i>i</i> the	TIM C. PAPPAS			124	PR	<u> </u>	
~	1 a 1				0/4.010	0004		REGISTERED PROFESSIONAL STATE OF NEW MEXICO NO	L LAND SUR 0. 21209	VEYOR	,	Str'ss	ONAL SURVE O	
	nanth	u We	is		0/16/2	2024				1.5				
Signatu		1-10		D	late			Signature and Seal of I	Profession	al Surveyor				
 	antha W	eis							—					
Printed			~		1.2			Certificate Number		Date of Surv	rey			
	antha.r.k	Dartnik(@e>	xxonmo	DDII.CC	m		TIM C. PAPPAS 2	1209	7/10/20)24			
	Address				ht	atur atur	Hand and the						d has also also t	
	note: No al	iowable wi	u pe a:	ssigned to ti	us compl	enon until al	i interests h	ave been consolidated o	r a non-ste	inaara unit l	us been	approved	i by the alvision.	
	-		JE		Ph: 817	.349.9800 -	Fax: 979.73		DATE: DRAWN		-11-2024 LM	PRO SCA	JECT NO: 2023040167	
		B+ENGI	NEEF	R8		m 17957 T www.fsc	inc.net		CHECKE FIELD C	D BY:	CH IR	SHE		

This grid represents a standard section. You may superimpose a non-standard section, or a 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 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 than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

Surveyors 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 is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



			ATE TAE			
	OP (NAD 83 N	· ·		P (NAD 83 NM		
Y=	401,237.3	N	Y =	401,235.7	N	
X=	713,647.4	E	X =	713,156.4	E	
LAT. =	32.101858	°N °W	LAT. =	32.101861	°N °W	
	103.776861 P (NAD 83 NME		LONG. =	103.778447 HL (NAD 83 NM		
Y=	387,841.9	-) N		387,791.9		
X =	713,193.6	E	X =	713,193.7	E	
LAT. =	32.065043	°N	LAT. =	32.064905		
LONG. =	103.778549	°W	LONG. =		°W	
SHL/K	OP (NAD 27 N	ME)	F1	P (NAD 27 NM	E)	
Y =	401,179.4	Ν	Y =	401,177.8	N	
X =	672,461.7	E	X =	671,970.7	E	
	32.101734	°N	LAT. =	32.101736	°N	
	103.776384	°W		103.777969		
	P (NAD 27 NME		Y=	HL (NAD 27 NM		
Y =	387,784.4	N		387,734.4	N	
X = LAT. =	672,007.3 32.064918	°N	X = LAT. =	672,007.5 32.064781	°N	
	103.778074	°W		103.778074		
	#1 (NAD 83 NA			P #1 (NAD 27 NI		
Y =	401,021.3	N	Y =	400,963.5		
X =	713,157.0	E	X =	671,971.3	E	
LAT. =	32.101272	°N	LAT. =	32.101147	°N	1
	103.778449	°W		103.777971	°W	
PPP	#2 (NAD 83 NN	1E)	PPF	9 #2 (NAD 27 NI	ME)	
Y =	398,370.6	Ν	Y =	398,312.8	N	
X =	713,164.4	E	X =	671,978.5	E	
LAT. =	32.093985	°N	LAT. =			
	103.778469	°W	LONG. =			
	#3 (NAD 83 NM			P #3 (NAD 27 NI		
Y =	397,046.8	N	Y =	396,989.0	N	
X = LAT. =	713,168.0	°N	X = LAT. =	671,982.1 32.090222	°N	
	32.090346 103.778479	°W	LAT. =	103.778002		
	#4 (NAD 83 NA			P #4 (NAD 27 NI		
Y=	393,071.1	N N	Y=	393,013.5	N N	
X =	713,179.1	E	X =	671,993.0	E	
LAT. =	32.079417	°N	LAT. =	32.079293	°N	
LONG. =	103.778509	°W	LONG. =	103.778033	°W	
	÷					
00	ORNER CO			NAD83 NME	-)	
	403,674	_				
A - Y =			A-X=	714,37		
B - Y =	401,027		B - X =	714,36		
C - Y =	398,377	-	C - X =	714,36		
D - Y =	395,732		D - X =	714,37		
E - Y =	393,080	.5 N	E - X =	714,38	8.8 E	
F - Y =	390,416	.3 N	F - X =	714,39	6.8 E	
G - Y =	387,751	.0 N	G - X =	714,40	3.8 E	
H - Y =	403,670	.3 N	H - X =	713,04	3.8 E	
I-Y=	401,020	.7 N	I - X =	713,03	6.5 E	
J - Y =	398,369		J - X =	713,03		
K - Y =	395,722		K - X =	,	5.2 E	
L-Y=	393,070		L-X=	713,05		
M-Y=	390,405			713,05		
N - Y =	390,405		M - X =			
		_		713,07		
		_		NAD27 NME		
A - Y =	403,616		A - X =	673,18		
B - Y =	400,969		B - X =	673,18		
C - Y =	398,320		C - X =	673,17		
D - Y =	395,674		D - X =	673,18		
E - Y =	393,022	.8 N	E - X =	673,20	2.7 E	
F - Y =	390,358	.7 N	F - X =	673,21	0.6 E	
G - Y =	387,693	.4 N	G - X =	673,21	7.6 E	
H - Y =	403,612		H-X=	671,85		
I-Y=	400,962		I-X=	671,85		
J - Y =	398,312		J - X =	671,84		
K - Y =	395,664		K-X=	671,85		
L - Y =	393,012		L - X =	671,87		
M - Y =	390,347		M - X =	671,88		
N - Y =	387,683	.5 N	N - X =	671,88	9.4 E	
		DATE	:	10-11-2024	PROJECT	
71			VN BY:	LM	SCALE:	1" = 2,5
887		CHEC	KED BY:	CH	SHEET:	2 C

FIELD CREW:

СН

IR

REVISION:

NO

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: XTO Permian Operating, LLC OGRID: 373075 Date: 09 / 24 / 2024

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square 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.

		1	1	1	n			1	
Well Name	API	ULSTR	Footages	Anticipated Oil	3 yr	Anticipated	3 yr	Anticipated	3 yr
				BBL/D	Anticipated	Gas MCF/D	Anticipated	Produced	Anticipated
					decline Oil		decline Gas	Water BBL/D	decline Water
					BBL/D		MCF/D		BBL/D
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 108H		R31E	660 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 109H		R31E	690 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 110H		R31E	720 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 208H		R31E	1980 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 209H		R31E	2010 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 210H		R31E	2040 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 308H		R31E	1981 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 309H		R31E	1951 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 310H		R31E	1921 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 406H		R31E	719 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 407H		R31E	689 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE	TBD	28-T25S-	2435 FNL,						
UNIT 28 BS 408H		R31E	659 FEL	1,900	200	3,250	900	3,750	400

PLU 28 BS CTB 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
		1	Date	Commencement Date	Back Date	Date

POKER LAKE UNIT 28 BS 108H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 109H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 110H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 208H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 209H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 210H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 308H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 309H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 310H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 406H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 407H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
POKER LAKE UNIT 28 BS 408H	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>

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

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

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

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

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

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

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

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

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

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

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

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

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

Section 4 - Notices

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

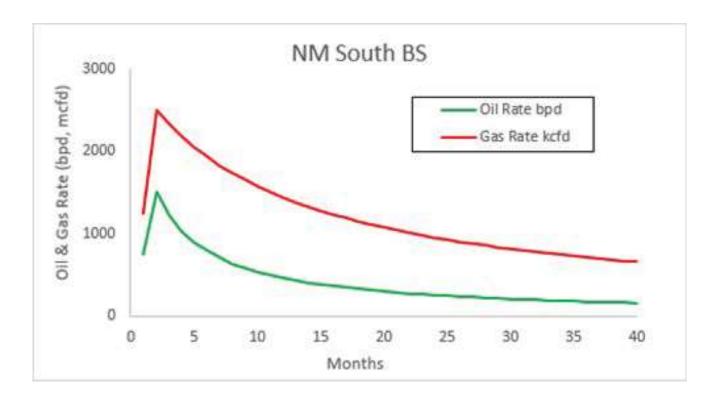
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit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

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

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

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

Signature: Samantha Weis
Printed Name: Samantha Weis
Title: Permitting Advisor
E-mail Address: samantha.r.bartnik@exxonmobil.com
Date: 10/15/2024
Phone: +1-832-625-7361
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:





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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28 BS

Well Type: OIL WELL

Well Number: 406H Well Work Type: Drill

Submission Date: 10/01/2023

Highlighted data reflects the most recent changes

10/07/2024

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14265037	QUATERNARY	3339	0	0	ALLUVIUM	USEABLE WATER	N
14265038	RUSTLER	2412	927	927	ANHYDRITE, SANDSTONE	USEABLE WATER	N
14265039	SALADO	2033	1306	1306	SALT	NONE	N
14265040	BASE OF SALT	-704	4043	4043	SALT	NONE	N
14265041	DELAWARE	-922	4261	4261	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : produced water	N
14265036	BRUSHY CANYON	-3568	6907	6907	SANDSTONE	NATURAL GAS, OIL, OTHER : produced water	N
14265042	BONE SPRING	-4860	8199	8199	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : produced water	Y
14265043	BONE SPRING 1ST	-5832	9171	9171	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : produced water	Y
14265044	BONE SPRING 2ND	-6532	9871	9871	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : produced water	Y
14265049	BONE SPRING 3RD	-7387	10726	10726	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : produced water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11039

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

Requesting Variance? YES

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28 BS

Well Number: 406H

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 that does not penetrate into the Wolfcamp.

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

Choke Diagram Attachment:

PLU_28_BS_5MCM_20240905071212.pdf

BOP Diagram Attachment:

PLU_28_BS_5MBOP_20240805134249.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.2 5	9.625	NEW	API	Ν	0	1027	0	1027	3339	2312	1027	J - 55	40	BUTT	5.53	1.37	DRY	15.3 4	DRY	15.3 4
2	INTERMED IATE	9	7.625	NEW	API	Y	0	10150	0	10119	0	-6780	10150	L-80	29.7	FJ	1.97	1.65	DRY	2.22	DRY	2.22
3	PRODUCTI ON	6.75	5.5	NEW	NON API	Y	0	24843	0	11039	0	-7700	24843	P - 110	23	OTHER - TalonHTQ/F reedomHTQ	2.2	1.21	DRY	4.94	DRY	4.94

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC

Well Number: 406H

Casing ID:	1	String	SURFACE		
Inspection	Document:				
Spec Docur	nent:				
Tana and Ctu					
Tapered Str	ing Spec:				
Casing Des	ign Assumpt	ions and W	orksheet(s):		
Ū			()		
PLU_2	28_BS_406H_	_Csg_20230	929180421.pdf		
Casing ID:	2	String	INTERMEDIATE		
Inspection	Document:				
Spec Docur	nent:				
Tapered Str	ing Spec:				
PLU_2	28_BS_406H_	_Csg_20230	929180509.pdf		
Casing Des	ign Assumpt	ions and W	orksheet(s):		
PLU_2	28_BS_406H_	_Csg_20230	929180535.pdf		
Casing ID:	3	String	PRODUCTION		
Inspection	Document:				

Spec Document:

Freedom_Semi_Premium_5.5000_23.0000_0.4150__P110_RY_20240902085038.pdf Talon__Semiflush_HTQ_RD_5.5000_23.0000_0.4150__P110_RY_20240902085037.pdf

Tapered String Spec:

PLU_28_BS_406H_Csg_20230929180558.pdf

Casing Design Assumptions and Worksheet(s):

PLU_28_BS_406H_Csg_20230929180617.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28 BS

Well Number: 406H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1027	240	1.87	12.9	448.8	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	1027	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6450	300	1.35	14.8	405	100	Class C	NA
INTERMEDIATE	Tail		6450	1015 0	780	1.33	14.8	1037. 4	100	Class C	NA
PRODUCTION	Lead		9850	1055 0	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		1055 0	2484 3	1020	1.51	13.2	1540. 2	30	VersaCem	NA

Section 5 - Circulating Medium

Circulating Medium Table

Mud System Type: Semi-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 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 control sequipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

	Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
Re	lédséð i	o2Anaag	ingOM1-BA38E4D11:	26:55	<u>M</u> 12							
	0	3	MUD									

Well Name: POKER LAKE UNIT 28 BS

Well Number: 406H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1027	WATER-BASED MUD	8.7	9.2							fresh water or native water
1027	4261	SALT SATURATED	10.5	11							
4261	1015 0	OTHER : BDE/OBM	9	9.5					~		

Section 6 - Test, Logging, Coring

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

Mud Logger: Mud Logging Unit (2 man) below intermediate casing. Open hole logging will not be done on this well. List of open and cased hole logs run in the well:

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

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6888

Anticipated Surface Pressure: 4459

Anticipated Bottom Hole Temperature(F): 195

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240902085628.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28 BS

Well Number: 406H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_28_BS_406H_DD_20230929181004.pdf

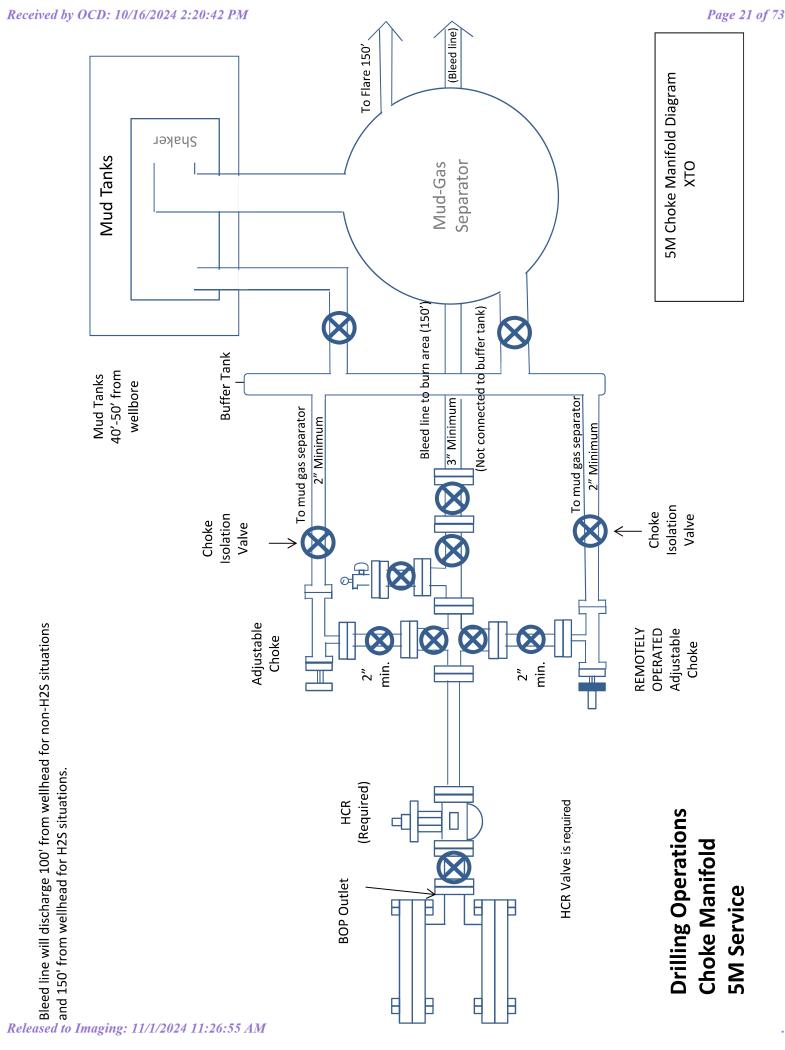
Other proposed operations facets description:

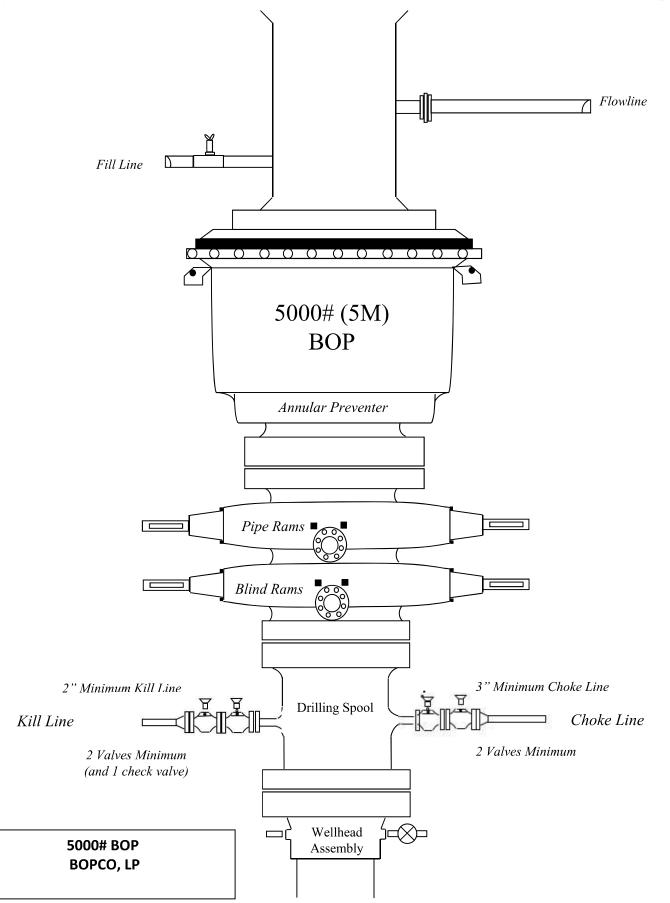
Other proposed operations facets attachment:

PLU_28_BS_H2S_Dia_Pad_2_20240805140042.pdf PLU_28_BS_H2S_Dia_Pad_3_20240805140042.pdf PLU_28_BS_H2S_Dia_Pad_1_20240805140042.pdf PLU_28_BS_H2S_Dia_Pad_4_20240805140042.pdf PLU_28_BS_406H_Cmt_20240805140151.pdf PLU_28_BS_406H_RL_20240805140151.pdf PLU_28_BS_MBS_20240805140330.pdf

Other Variance attachment:

Spudder_Rig_Request_20240805140435.pdf Offline_Cement_Variance_Surf___Interm_Csg_20240805140435.pdf Updated_Flex_Hose_20240805140435.pdf BOP_Break_Test_Variance_20240902090048.pdf





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asin	Casing Design									
	Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
52	12.25	0' - 1027'	9.625	40	J-55	BTC	New	1.37	5.53	15.34
fa	8.75	0' - 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.27	2.65	1.85
5	8.75	4000' - 10150'	7.625	29.7	HC L-80	Flush Joint	New	1.65	1.97	2.22
F	6.75	0' - 10050'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.42	1.97
Fa	6.75	10050' - 10768'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.26	4.35
	6.75	10768' - 24843'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.20	4.94

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Cement Variance Request

Intermediate Casing:

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6907') 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 inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

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

Production Casing:

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

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

Description of Operations:

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

XTO Permian Operating, LLC Offline Cementing Variance Request

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

1. Cement Program

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

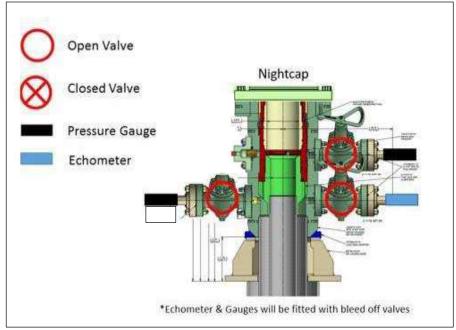
2. Offline Cementing Procedure

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

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



Annular packoff with both external and internal seals

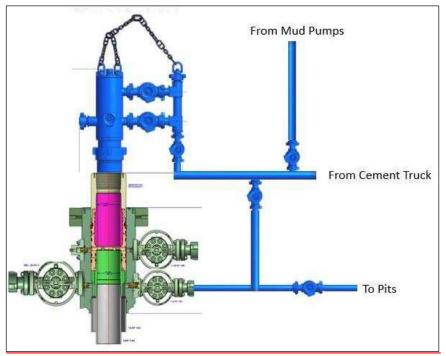


XTO Permian Operating, LLC Offline Cementing Variance Request

Wellhead diagram during skidding operations

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





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.



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairle Oak Dr. Houston, TX. 77086

PHONE: +1 (281) 602-4100 MERICA FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: www.gates.com/ollandgas NEW CHOKE HOSE INSTRUED 02-10-2024

CERTIFICATE OF CONFORMANCE

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

CUSTOMER: CUSTOMER P.O.#: CUSTOMER P/N:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA 15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531) IMR RETEST SN 74621 ASSET #66-1531
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #: QUANTITY: SERIAL #:	529480 1 74621 H3-012524-1
SIGNATURE	F. OSTWOS

 TITLE:
 QUALITY ASSURANCE

 DATE:
 1/25/2024



TEST REPORT

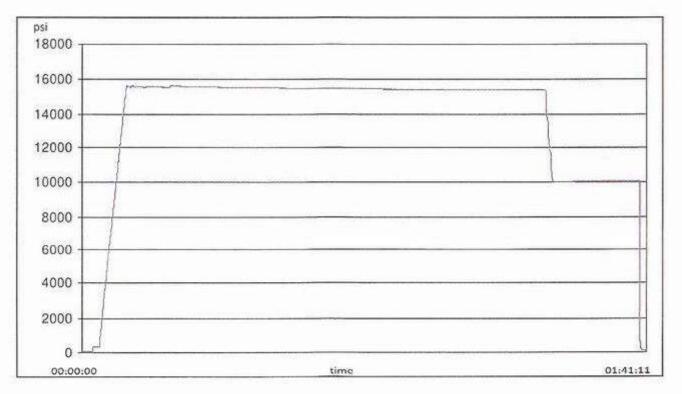
Page 30 of 73

1/25/2024 11:48:06 AM

CUSTOMER			TEST OBJECT		
Company:	Nabors Indi	ustries Inc.	Serial number:	H3-0125	24-1
			Lot number:		
Production description:	74621/66-1	531	Description:	74621/6	6-1531
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C C	к
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1	/16 10K
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psī			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1	/16 10K
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result	t:				

Test operator:

Travis



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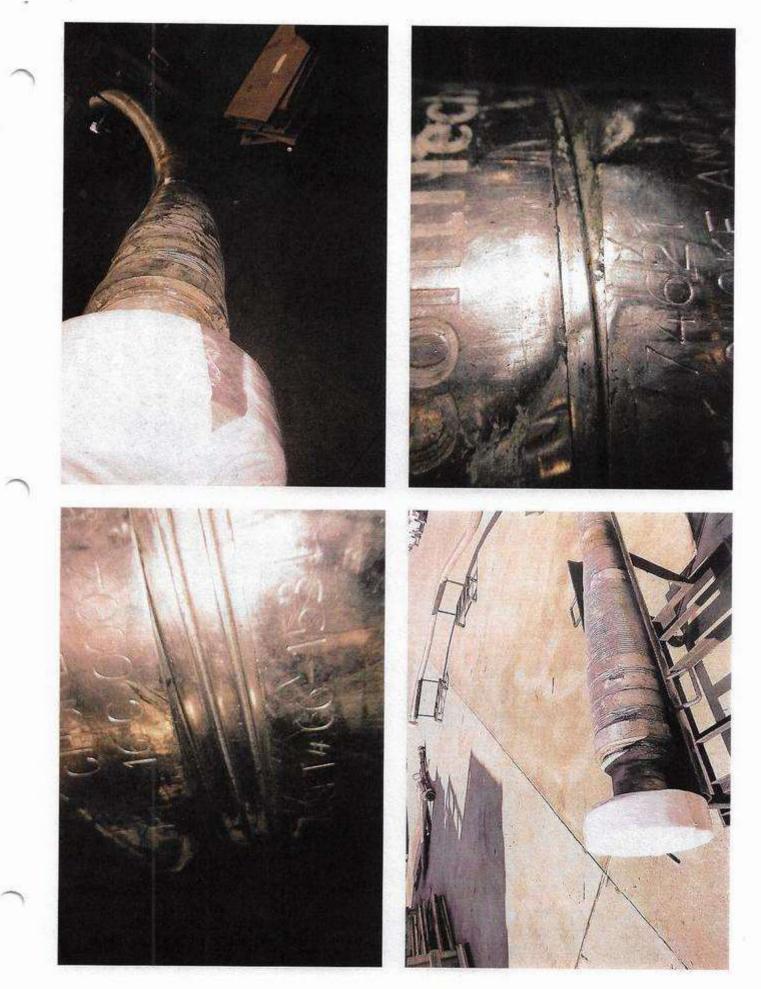
TEST REPORT

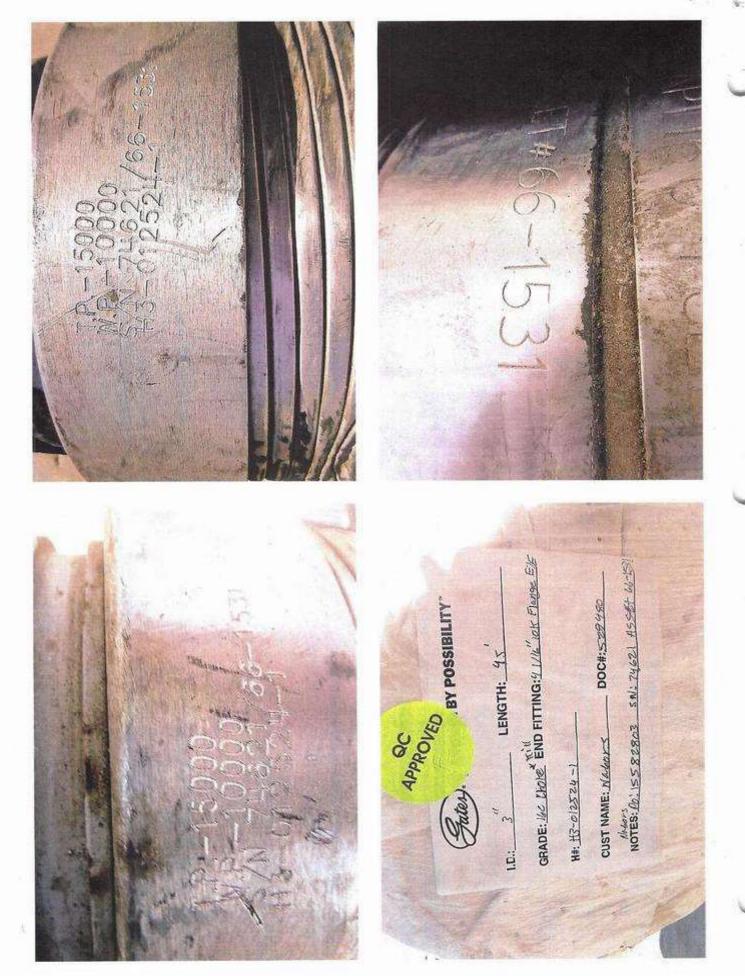
Page 31 of 73 H3-15/1b 1/25/2024 11:48:06 AM

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





Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by- well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

		Pressure Test-	-High Pressure
Component to be Pressure Tested	Pressure Test—Low Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ⁶	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	.250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	ASP for the well program,
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	
 Annular(s) and VBR(s) shall be pre- For pad drilling operations, moving pressure-controlling connections ^d For surface offshore operations, th 	during the evaluation period. The p essure tested on the largest and sm from one wellhead to another within when the integrity of a pressure see he ram BOPs shall be pressure test	pressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program. uired for pressure-containing ar the closing and locking pressu

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

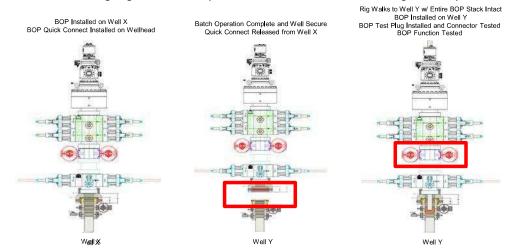
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- 1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

- 11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.



Note: Picture below highlights BOP components that will be tested during batch operations

Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

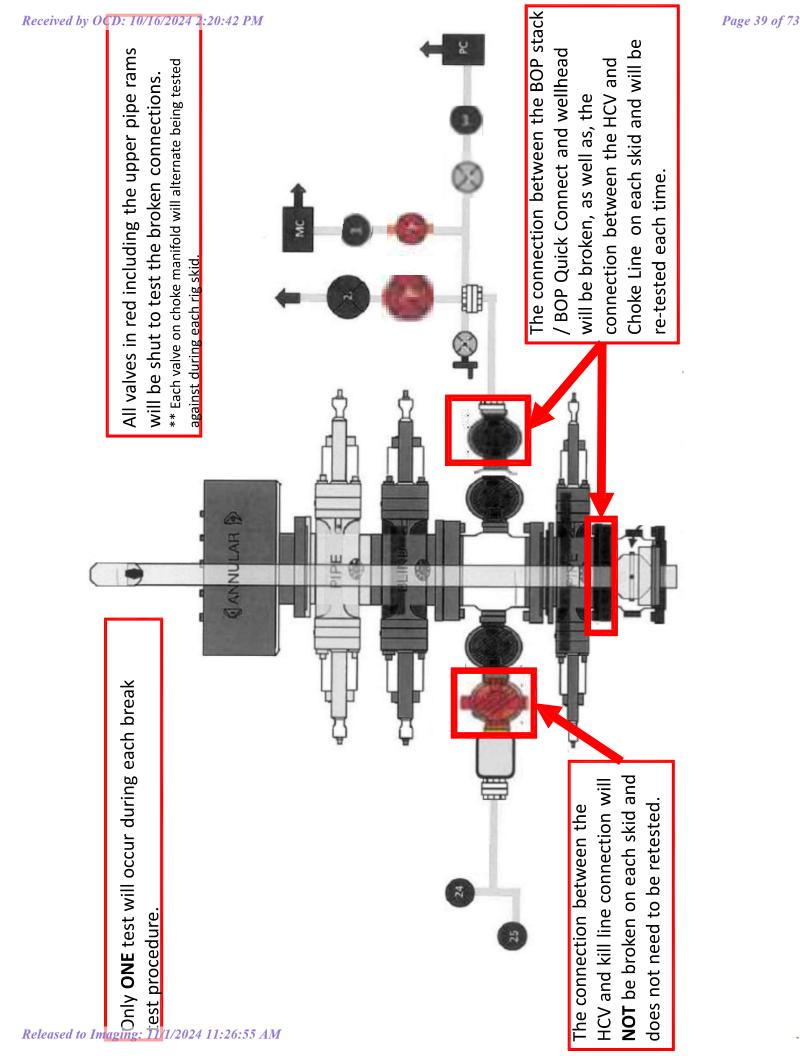
Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

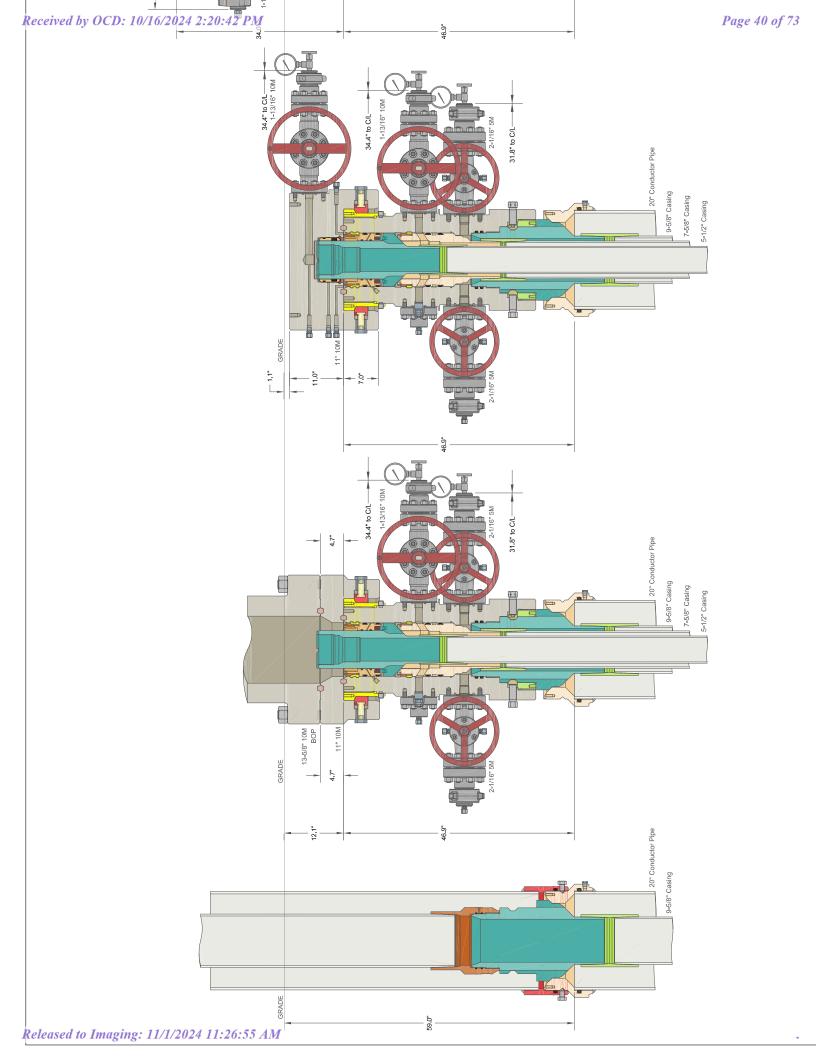
1. After a full BOP test is conducted on the first well on the pad.

2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.







XTO Energy EDDY COUNTY, NM (NAD-27 / NME) POKER LAKE UNIT 28 BS 406H

Wellbore #1

Plan: PERMIT

Standard Planning Report

16 June, 2023



Project:	EDDY COUNTY, NM (NAD-27 / NME)
Site:	POKER LAKE UNIT 28 BS
Well:	406H
Wellbore:	Wellbore #1
Design:	PERMIT

Page 42 of 73 PROJECT DETAILS: EDDY COUNTY, NM (NAD-27 / NME)

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

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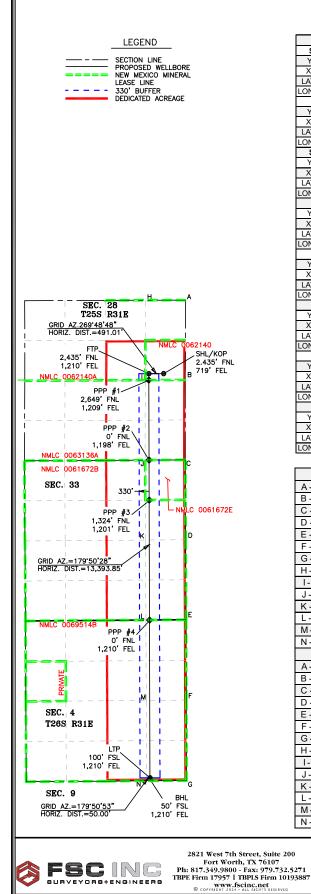
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First Take Point (FTP) UL Section Township Range Lot FL from NS P. from EW Latitude Longitude 28 25 S 31 E Lot FL from NS P. from EW 1,210' FEL 32.101861 -103.778447 Last Take Point (LTP) UL Section Township Range Lot FL from NS FL from EW Latitude -103.778549 UL tast Take Point (LTP) UL Section Township Range Lot FL from NS FL from EW Latitude -103.778549 Unitized Area or Area of Uniform Interest Spacing Unit Type IM Horizontal Vertical Ground Floor Elevation: 3.339' OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my belief. I hereby certify that the information contained herein is true and complete to the best of my belief. I hereby certify that the information contained herein is true and contract with an owner of such a mineral or working interest or under my supervision, a is true and correct to the best of my belief. I hereby certify that the information contained herein is	County					Ft. from E/W	t. from N/S	Lot	-	-		
UL H Section 28 Township 25 S Range 31 E Lot 31 E Ft. from N/S 2,435 FNL Ft. from E/W 1,210' FEL Latitude 32,101861 Longitude -103,778447 Last Take Point (LTP) UL VL P Section 4 Township 26 S Range 31 E Lot Spacing Unit Type I Horizontal Ft. from N/S 100' FSL Ft. from E/W 1,210' FEL Latitude 32,065043 Longitude -103,778549 Unitized Area or Area of Uniform Interest Unitized Spacing Unit Type I Horizontal Vertical Ground Floor Elevation: 3,339' OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 well at this location pursuant to a contract with a nowner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. SURVEYOR CERTIFICATIONS If this well is a horizontal well, I further certify that this organization has received the consent of at least one lesse or owner of a working interest or unleased mineral completed interval will be located or obtained a compulsory pooling form the division. I MCE PAPAS State For New MEXCO PROFESSIONAL UND SUNPEROR State For New MEXCO PROFESSIONAL UND SUNPEROR State For New MEXCO Professional Surveyor	51 EDDY	1 1 6861	-103.776	1828 -	32.101				31 E	25 S	28	н
Last Take Point (LTP) UL Section Township Range Lot Ft. from N/S Ft. from E/W Latitude Longitude 9 4 26 S 31 E 100' FSL Ft. from N/S Ft. from E/W Latitude -103.778549 Unitized Area or Area of Uniform Interest Spacing Unit Type I Horizontal Vertical Ground Floor Elevation: -3,339' OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest in the land including the proposed bottom hole is true and corner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. I hereby certify that the well location shown on this plat was p notes of actual surveys made by me or under my supervision, a is true and corner to the best of my belief. I the orgen to my king interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal will be located or obtained a compulsory pooling form the division. II OL16/2024 Signature Date	County					Ft. from E/W	t. from N/S	Lot				
UL Section Township Range Lot Ft. from N/S Ft. from E/W Latitude Longitude -103.778549 Unitized Area or Area of Uniform Interest Spacing Unit Type I Horizontal Vertical Ground Floor Elevation: -3,339' Unitized Spacing Unit Type I Horizontal Vertical Ground Floor Elevation: -3,339' OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undeased mineral interest in the land including the propose a bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. I hereby certify that the supervisional Supervor NO. If this well is a horizontal well, I further certify that this organization has received division. I horizontal well, I further certify that this organization has perceived division. I NOCH 2024 Samantha Weis 10/16/2024 Interest or unleased mineral or working interest or unleased mineral or NO contract or the BEST or NEW MEXCO NO. NO ENDER MO DEVERTION THE BEST or NEW MEXCO NO. 21209 Signature Date Signature and Seal of Professional Surveyor	17 EDDY	1 1 044 /	-103.778		32.101	· · ·			31 E	25 S	28	н
Unitized Spacing Unit Type I Horizontal Vertical Ground Floor Elevation: 3,339 OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. I hereby certify that the well location shown on this plat was p notes of actual surveys made by me or under my supervision, a is true and correct to the best of my belief. 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 interval will be located or obtained a compulsory pooling form the division. I M C PAPPAS, NEW MEXICO PROFESSIONAL SUPERVISION, THAT THIS SURVEY FULAT AND MEXICO AND BELEF. 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 interval will be located or obtained a compulsory pooling form the division. II Oct 20224 Samaattha Weils 10/16/2024 Signature Signature and Seal of Professional Surveyor	County I9 EDDY				Lot Ft. from N/S Ft. from E/W Latitude							
Unitized 3,339 OPERATOR CERTIFICATIONS SURVEYOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. I hereby certify that the exet of my belief. 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 formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division. I M C. PAPPAS, NEW MEXICO PROFESSIONAL LAND SURVEY PLAT AND THE SURVEY THAT THIS SURVEY TH		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100.170		52.000	I,ZIV FEL	P 4 26 S 31 E 100 FSL 1,210 FEL					
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest in the land including the proposed bottom hold location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. I hereby certify that the well location shown on this plat was p notes of actual surveys made by me or under my supervision, a is true and correct to the best of my belief. If this well as 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 mineres ti neeth ract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division. I M C. PAPPAS Signature Date Signature and Seal of Professional Surveyor	339'	^{on:} 3.339'	Elevation:	Ground Floor E	G	tal 🗌 Vertical	nit Type 🕱 Horizor	Spacing	Interest	ea of Uniforr		
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. I hereby certify that the well location shown on this plat was p notes of actual surveys made by me or under my supervision, and is true and correct to the best of my belief. 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 formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division. I hereby certify that the surveys mode by me or under my supervision, and the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division. Signature Date								1			<u>, u</u>	UnidZe
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Indication or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a volumtary pooling agreement or a compulsory pooling order heretofore entered by the division. I. TH C. PAPPES, NEW MERGO PROTESSIONAL SURPEYOR NO. 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 of formation) in which may part of the well's completed interval will be located or obtained a compulsory pooling form the division. Signature Date				by me or under	eys made b	notes of actual sur						
an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order 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 formation) in which any part of the well's division. Samantha Weis 10/16/2024 Signature Date Signature Date Signature Antice and Seal of Professional Surveyor		10.	VEYOR NO.	FESSIONAL SURVI	MEXICO PRO	I. TIM C. PAPPAS. NEW						
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 formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division. Samantha Weis 10/16/2024 Signature Date Signature and Seal of Professional Surveyor	ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED						y pooling	to a volu	ing interest, or	mineral or we	er of such a n	an own
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 formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling form the division. Samantha Weis 10/16/2024 Signature Date Signature and Seal of Professional Surveyor	LEW MEXIC		NEW /	R SURVEYING IN	ANDARDS FOF RUE AND COI	MEETS THE MINIMUM S			-		-	-
completed interval will be located or obtained a compulsory pooling form the division. III OCT 2024 The C. PAPPAS The C. PAPPAS Signature 10/16/2024 Signature Date Signature and Seal of Professional Surveyor	(21209)			Actor		MIT NOWLEDGE AND B	or unleased mineral	rking inter	owner of a wo	st one lessee	sent of at leas	the con
Signature Date Signature and Seal of Professional Surveyor		2	724	007 20							rted interval w	comple
Signature Date Signature and Seal of Professional Surveyor	SSIONAL SURVE	Ortss	TIM C. PAPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209									
						24			a We			
				nai ouiveyor	1 FIOLESSIOI	Signature and Seal of		au	L	Veis		c
Printed Name Certificate Number Date of Survey			vey	Date of Surv		Certificate Number						
samantha.r.bartnik@exxonmobil.com TIM C. PAPPAS 21209 7/10/2024					21209		1	obil.co	exxonmo	bartnik(
Email Address												
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved		en annrove	hacheen			ave been consolidated	on until all interests I	his compl	e assigned to t	llowable will	Note: No a	

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or a 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 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 than the First Take Point or Last Take Point) that is the closest to any outer boundary of the tract.

Surveyors 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 is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



			IATE TAE		
	OP (NAD 83			P (NAD 83 NMI	
Y = X =	401,237.3	N E	Y = X =	401,235.7	N E
LAT. =	713,647.4 32.101858	°N	LAT. =	713,156.4 32.101861	°N
	103.776861	°W	LONG. =		°W
	P (NAD 83 NM	IE)		IL (NAD 83 NM	E)
Y =	387,841.9	Ν	Y =	387,791.9	Ν
X =	713,193.6	E	X =	713,193.7	E
LAT. =	32.065043	°N	LAT. =	32.064905	°N
	103.778549 OP (NAD 27 I		LONG. =	103.778550 P (NAD 27 NMI	°W
Y=	401,179.4	N	Y=	401.177.8	-/ N
X =	672,461.7	E	X =	671,970.7	E
LAT. =	32.101734	°N	LAT. =	32.101736	°N
_ONG. =	103.776384	°W	LONG. =		°W
	P (NAD 27 NM	,		IL (NAD 27 NM	/
Y =	387,784.4	N	Y =		N
X = LAT. =	672,007.3 32.064918	°N	X = LAT. =	672,007.5 32.064781	°N
	103.778074	°W	LONG. =		°W
	#1 (NAD 83 N			P #1 (NAD 27 NM	
Y =	401,021.3	Ń	Y =	400,963.5	Ń
X =	713,157.0	Е	X =	671,971.3	E
LAT. =	32.101272	°N	LAT. =	32.101147	°N
	103.778449	°W	LONG. =		°W
Y=	#2 (NAD 83 N 398,370.6	ME) N	Y =	2 #2 (NAD 27 NM 398,312.8	N N
X =	713,164.4	E	X =	671,978.5	E
LAT. =	32.093985	°N	LAT. =	32.093861	°N
ONG. =	103.778469	°W	LONG. =	103.777992	°W
PPP	#3 (NAD 83 N	ME)	PPI	9 #3 (NAD 27 NA	ΛE)
Y =	397,046.8	N	Y =	396,989.0	N
X=	713,168.0	E	X=	671,982.1	E
LAT. = LONG. =	32.090346 103.778479	°N °W	LAT. = LONG. =	32.090222 103.778002	°N °W
	#4 (NAD 83 N			P #4 (NAD 27 NI	
Y=	393,071.1	N	Y =	393,013.5	
X =	713,179.1	E	X =	671,993.0	E
LAT. =	32.079417	°N	LAT. =	32.079293	°N
LONG. =	103.778509	°W	LONG. =	103.778033	°W
<u>C(</u>	ORNER CO	ORDI	NATES (NAD83 NME)
A - Y =	403,674	4.7 N	A - X =	714,37	3.5 E
B - Y =	401,027	7.1 N	B - X =	714,36	5.8 E
C - Y =	398,37	7.8 N	C - X =	714,36	2.6 E
D - Y =	395,732	2.5 N	D - X =	714,37	5.6 E
E - Y =	393,080	0.5 N	E - X =	714,38	8.8 E
F - Y =	390,416	6.3 N	F - X =	714,39	6.8 E
G - Y =	387,75	1.0 N	G - X =	714,40	3.8 E
H - Y =	403,670		H - X =	713,04	3.8 E
I-Y=	401,020		I-X=	713,03	_
J-Y=	398,369	-	J - X =	713,03	
K-Y=	395.72		K-X=	713,03	
L-Y=	393,070		L-X=	713,04	
M-Y=	390,40		M-X=	713,06	
N - Y =	390,40		N - X =	713,00	
				NAD27 NME	
A-Y=	403,616		A-X=	673,18	
B-Y=	400,969		B-X=	673,18	
C - Y =	398,320		C - X =	673,17	
D-Y=	395,674		D-X=	673,18	
E - Y =	393,022		E-X=	673,20	
F - Y =	390,358		F - X =	673,21	
G - Y =	387,693		G - X =	673,21	
H - Y =	403,612		H - X =	671,85	
I-Y=	400,962		I-X=	671,85	
J - Y =	398,312		J - X =	671,84	
K - Y =	395,664		K - X =	671,85	
L - Y =	393,012	2.6 N	L - X =	671,87	3.0 E
M - Y =	390,34	7.9 N	M - X =	671,88	1.4 E
N - Y =	387,683	3.5 N	N - X =	671,88	9.4 E
		DATI		10-11-2024	PROJECT
71 887		DRAV	 VN BY: CKED BY:	LM CH	SCALE: SHEET:

FIELD CREW:

IR

REVISION:

NO



Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	XTO EDD` POKI 406H Wellb	EDM 5000.1.13 Single User Db XTO Energy EDDY COUNTY, NM (NAD-27 / NME) POKER LAKE UNIT 28 BS 406H Wellbore #1 PERMIT			TVD Refe MD Refe North Re	Local Co-ordinate Reference:Well 406HTVD Reference:RKB = 30' @ 33MD Reference:RKB = 30' @ 33North Reference:GridSurvey Calculation Method:Minimum Curvation			3369.00usft (<i>'</i>
Project	EDDY	COUNTY, N	M (NAD - 27 /	NME)						
Map System: Geo Datum: Map Zone:	NAD 19	US State Plane 1927 (Exact solution) System Datum: Mean Sea Level NAD 1927 (NADCON CONUS) New Mexico East 3001								
Site	POKE	POKER LAKE UNIT 28 BS								
Site Position From: Position Unc	Ма	•	Norti East) usft Slot	•		165.51 usft 517.18 usft 13-3/16 "	Latitude: Longitude: Grid Conve	rgence:		32.1017509 -103.7891219 0.289 °
Well	406H									
Well Position	n +N/-S +E/-W					401,179.42 usft Latitude: 672,461.67 usft Longitude:				32.1017338 -103.7763838
Position Unc	ertainty	0.0	00 usft 🛛 🛚	/ellhead Elev	vation:	0.00	usft Gr	ound Level:		3,339 . 00 usf
Wellbore	Wellb	ore #1								
Magnetics	Мо	del Name IGRF2020	Samp	le Date 06/16/23	Declina (°)			Angle °) 59.692		Strength าT) 47,192
Desire	PERM	UТ								· · · · · · · · · · · · · · · · · · ·
Design Audit Notes:										
Version:			Pha	se: f	PLAN	Tie	on Depth:		0.00	
Vertical Sect	ion:	D	epth From (1 (usft)	rvd)	+N/-S (usft)		/-W sft)		ection (°)	
			0.00		0.00	0.	00	17	'9.84	
Plan Section	S									
Plan Section Measured Depth (usft)	s Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
Measured Depth (usft) 0.00 2,000.00 2,251.89	Inclination (°) 0.00 0.00 0.00 5.04	(°) 0.00 0.00 321.17	Depth (usft) 0.00 2,000.00 2,251.57	(usft) 0.00 0.00 8.62	(usft) 0.00 0.00 -6.94	Rate (°/100usft) 0.00 0.00 2.00	Rate (°/100usft) 0.00 0.00 2.00	Rate (°/100usft) 0.00 0.00	(°) 0.000 0.000 321.168	Target
Measured Depth (usft) 0.00 2,000.00	Inclination (°) 0.00 0.00 5.04 5.04 5.04 5.04 90.00 90.00	(°) 0.00 0.00	Depth (usft) 0.00 2,000.00 2,251.57 10,427.69 11,039.00 11,039.00	(usft) 0.00 0.00	(usft) 0.00 0.00	Rate (°/100usft) 0.00 0.00	Rate (°/100usft) 0.00 0.00	Rate (°/100usft) 0.00 0.00 0.00 -15.05 0.00	(°) 0.000 321.168 0.000 -141.217 0.000	Target 406H FTP 406H LTP 406H BHL

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Planning Report

Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well 406H RKB = 30' @ 3369.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 30' @ 3369.00usft (TBD)
Site:	POKER LAKE UNIT 28 BS	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/ - W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00 406H SHL	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	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
500.00 600.00 700.00 800.00 900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	500.00 600.00 700.00 800.00 900.00	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
927.00	0.00	0.00	927.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler 1,000.00 1,100.00 1,200.00 1,300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	1,000.00 1,100.00 1,200.00 1,300.00	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
1,306.00 Top Salt	0.00	0.00	1,306.00	0.00	0.00	0.00	0.00	0.00	0.00
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	1,400.00 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
1,800.00 1,900.00 2,000.00 2,100.00 2,200.00	0.00 0.00 0.00 2.00 4.00	0.00 0.00 0.00 321.17 321.17	1,800.00 1,900.00 2,000.00 2,099.98 2,199.84	0.00 0.00 0.00 1.36 5.44	0.00 0.00 0.00 -1.09 -4.38	0.00 0.00 -1.36 -5.45	0.00 0.00 0.00 2.00 2.00	0.00 0.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
2,251.89 2,300.00 2,400.00 2,500.00 2,600.00	5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	2,251.57 2,299.49 2,399.10 2,498.72 2,598.33	8.62 11.91 18.75 25.59 32.43	-6.94 -9.59 -15.09 -20.60 -26.11	-8.64 -11.94 -18.79 -25.65 -32.51	2.00 0.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,700.00 2,800.00 2,900.00 3,000.00 3,100.00	5.04 5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	2,697.94 2,797.56 2,897.17 2,996.79 3,096.40	39.27 46.12 52.96 59.80 66.64	-31.61 -37.12 -42.63 -48.13 -53.64	-39.36 -46.22 -53.07 -59.93 -66.79	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
3,200.00 3,300.00 3,400.00 3,500.00 3,600.00	5.04 5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	3,196.01 3,295.63 3,395.24 3,494.85 3,594.47	73.48 80.32 87.16 94.00 100.84	-59.15 -64.65 -70.16 -75.66 -81.17	-73.64 -80.50 -87.35 -94.21 -101.07	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
3,700.00 3,800.00 3,900.00 4,000.00 4,050.27	5.04 5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	3,694.08 3,793.70 3,893.31 3,992.92 4,043.00	107.68 114.52 121.36 128.20 131.64	-86.68 -92.18 -97.69 -103.20 -105.96	-107.92 -114.78 -121.63 -128.49 -131.94	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Base Salt		001.17	4 000 54	105.01	400 70	105.05	0.00	0.05	0.00
4,100.00 4,200.00 4,269.12	5.04 5.04 5.04	321.17 321.17 321.17	4,092.54 4,192.15 4,261.00	135.04 141.88 146.61	-108.70 -114.21 -118.01	-135.35 -142.20 -146.94	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Delaware 4,300.00	5.04	321.17	4,291.76	148.72	-119.71	-149.06	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 406H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3369.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 30' @ 3369.00usft (TBD)
Site:	POKER LAKE UNIT 28 BS	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.00	5.04	321.17	4,391.38	155.57	-125.22	-155.91	0.00	0.00	0.00
4,500.00 4,600.00 4,700.00 4,800.00 4,900.00	5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	4,490.99 4,590.60 4,690.22 4,789.83 4,889.45	162.41 169.25 176.09 182.93 189.77	-130.73 -136.23 -141.74 -147.25 -152.75	-162.77 -169.63 -176.48 -183.34 -190.19	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
5,000.00 5,100.00 5,200.00 5,240.87	5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17	4,989.06 5,088.67 5,188.29 5,229.00	196.61 203.45 210.29 213.09	-158.26 -163.77 -169.27 -171.52	-197.05 -203.91 -210.76 -213.56	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Cherry Ca 5,300.00	n yon 5.04	321.17	5,287.90	217.13	-174.78	-217.62	0.00	0.00	0.00
5,400.00 5,500.00 5,600.00 5,700.00 5,800.00	5.04 5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	5,387.51 5,487.13 5,586.74 5,686.36 5,785.97	223.97 230.81 237.65 244.49 251.33	-180.28 -185.79 -191.30 -196.80 -202.31	-224.47 -231.33 -238.19 -245.04 -251.90	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
5,900.00 6,000.00 6,100.00 6,200.00 6,300.00	5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	5,885.58 5,985.20 6,084.81 6,184.42 6,284.04	258.18 265.02 271.86 278.70 285.54	-207.82 -213.32 -218.83 -224.33 -229.84	-258.75 -265.61 -272.47 -279.32 -286.18	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
6,400.00 6,500.00 6,600.00 6,700.00 6,800.00	5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	6,383.65 6,483.26 6,582.88 6,682.49 6,782.11	292.38 299.22 306.06 312.90 319.74	-235.35 -240.85 -246.36 -251.87 -257.37	-293.03 -299.89 -306.75 -313.60 -320.46	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
6,900.00 6,925.38	5.04 5.04	321.17 321.17	6,881.72 6,907.00	326.58 328.32	-262.88 -264.28	-327.31 -329.05	0.00 0.00	0.00 0.00	0.00 0.00
Brushy Ca 7,000.00 7,100.00 7,200.00	5.04 5.04 5.04 5.04	321.17 321.17 321.17	6,981.33 7,080.95 7,180.56	333.42 340.26 347.10	-268.39 -273.89 -279.40	-334.17 -341.03 -347.88	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7,300.00 7,400.00 7,500.00 7,600.00 7,700.00	5.04 5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	7,280.17 7,379.79 7,479.40 7,579.02 7,678.63	353.94 360.79 367.63 374.47 381.31	-284.90 -290.41 -295.92 -301.42 -306.93	-354.74 -361.59 -368.45 -375.31 -382.16	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
7,800.00 7,900.00 7,999.53	5.04 5.04 5.04	321.17 321.17 321.17	7,778.24 7,877.86 7,977.00	388.15 394.99 401.80	-312.44 -317.94 -323.42	-389.02 -395.87 -402.70	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	shy Canyon	201 17	7 077 47	401.92	202.45	402 72	0.00	0.00	0.00
8,000.00 8,100.00	5.04 5.04	321.17 321.17	7,977.47 8,077.08	401.83 408.67	-323.45 -328.96	-402.73 -409.59	0.00 0.00	0.00 0.00	0.00 0.00
8,200.00 8,222.39	5.04 5.04	321.17 321.17	8,176.70 8,199.00	415.51 417.04	-334.46 -335.69	-416.44 -417.98	0.00 0.00	0.00 0.00	0.00 0.00
Bone Sprii	ng Lime Fm								
8,300.00 8,360.92	- 5.04 5.04	321.17 321.17	8,276.31 8,337.00	422.35 426.52	-339.97 -343.32	-423.30 -427.48	0.00 0.00	0.00 0.00	0.00 0.00
Avalon Sh		ac : :=	0.055.55	105.15	a · = · ·				
8,400.00 8.500.00	5.04 5.04	321.17	8,375.92 8,475.54	429.19 436.03	-345.47	-430.15	0.00	0.00	0.00
8,500.00 8,600.00	5.04 5.04	321.17 321.17	8,475.54 8,575.15	436.03 442.87	-350.98 -356.49	-437.01 -443.87	0.00 0.00	0.00 0.00	0.00 0.00

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COMPASS 5000.1 Build 74



Planning Report

Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well 406H RKB = 30' @ 3369.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 30' @ 3369.00usft (TBD)
Site:	POKER LAKE UNIT 28 BS	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,700.00 8,726.34	5.04 5.04	321.17 321.17	8,674.77 8,701.00	449.71 451.52	-361.99 -363.44	-450.72 -452.53	0.00 0.00	0.00 0.00	0.00 0.00
Avalon Lir 8,800.00	ne 5.04	321.17	8,774.38	456.55	-367.50	-457.58	0.00	0.00	0.00
8,900.00 8,994.37	5.04 5.04	321.17 321.17	8,873.99 8,968.00	463.39 469.85	-373.01 -378.20	-464.43 -470.90	0.00 0.00	0.00 0.00	0.00 0.00
1st Bone S	Spring Lime								
9,000.00 9,100.00 9,198.16	5.04 5.04 5.04	321.17 321.17 321.17	8,973.61 9,073.22 9,171.00	470.24 477.08 483.79	-378.51 -384.02 -389.42	-471.29 -478.15 -484.88	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1st Bone \$		02	0,11100	100110	000112	10 1100	0100	0.00	0100
9,200.00 9,300.00 9,400.00 9,500.00 9,600.00	5.04 5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17 321.17	9,172.83 9,272.45 9,372.06 9,471.68 9,571.29	483.92 490.76 497.60 504.44 511.28	-389.52 -395.03 -400.54 -406.04 -411.55	-485.00 -491.86 -498.71 -505.57 -512.43	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
9,616.78	5.04	321.17	9,588.00	512.43	-412.47	-513.58	0.00	0.00	0.00
,	Spring Lime	021.11	0,000.00	012.40	114.71	010.00	0.00	0.00	0.00
9,700.00 9,800.00 9,900.00 9,900.87	5.04 5.04 5.04 5.04 5.04	321.17 321.17 321.17 321.17 321.17	9,670.90 9,770.52 9,870.13 9,871.00	518.12 524.96 531.80 531.86	-417.06 -422.56 -428.07 -428.12	-519.28 -526.14 -532.99 -533.05	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
2nd Bone	Spring Ss								
10,000.00 10,056.48 2nd Bone	5.04 5.04 Spring A Sand	321.17 321.17	9,969.74 10,026.00	538.64 542.51	-433.58 -436.68	-539.85 -543.72	0.00 0.00	0.00 0.00	0.00 0.00
10,100.00 10,120.72	5.04 5.04	321.17 321.17	10,069.36 10,090.00	545.48 546.90	-439.08 -440.22	-546.71 -548.13	0.00 0.00	0.00 0.00	0.00 0.00
	Spring T/B Ca		10,100,07	550.00	444.50	550.50	0.00	0.00	0.00
10,200.00	5.04	321.17	10,168.97	552.32	-444.59	-553.56	0.00	0.00	0.00
10,233.16	5.04	321.17	10,202.00	554.59	-446.41	-555.84	0.00	0.00	0.00
10,296.40	Spring C Sand 5.04	321.17	10,265.00	558.92	-449.90	-560.17	0.00	0.00	0.00
10,300.00	Spring Lm 5.04	321.17	10,268.58	559.16	-450.09	-560.42	0.00	0.00	0.00
10,400.00 10,459.72	5.04 5.04	321.17 321.17 321.17	10,368.20 10,427.69	566.00 570.09	-455.60 -458.89	-567.27 -571.37	0.00	0.00	0.00 0.00
10,500.00 10,550.00 10,600.00 10,650.00 10,700.00	3.15 5.99 10.57 15.42 20.33	268.08 211.51 197.01 191.37 188.39	10,467.88 10,517.73 10,567.20 10,615.91 10,663.48	571.43 569.16 562.54 551.64 536.52	-461.11 -463.85 -466.55 -469.21 -471.79	-572.72 -570.45 -563.84 -552.94 -537.83	10.00 10.00 10.00 10.00 10.00	-4.68 5.67 9.16 9.68 9.83	-131.79 -113.16 -28.99 -11.28 -5.95
10,750.00 10,768.32	25.28 27.10	186.54 186.02	10,709.56 10,726.00	517.30 509.27	-474.27 -475.16	-518.63 -510.59	10.00 10.00	9.90 9.92	-3.70 -2.83
3rd Bone		105.00	10 750 70	404.44	470.05		40.00	0.00	0.40
10,800.00 10,850.00 10,900.00	30.25 35.22 40.20	185.26 184.32 183.58	10,753.79 10,795.84 10,835.38	494.14 467.21 436.71	-476.65 -478.89 -480.98	-495.47 -468.54 -438.05	10.00 10.00 10.00	9.93 9.95 9.96	-2.40 -1.89 -1.48
10,950.00 11,000.00 11,050.00 11,100.00 11,150.00	45.18 50.17 55.16 60.15 65.14	182.98 182.48 182.04 181.65 181.31	10,872.12 10,905.78 10,936.09 10,962.84 10,985.81	402.87 365.96 326.25 284.04 239.66	-482.91 -484.67 -486.23 -487.59 -488.73	-404.22 -367.31 -327.60 -285.40 -241.03	10.00 10.00 10.00 10.00 10.00	9.97 9.97 9.98 9.98 9.98 9.98	-1.20 -1.01 -0.87 -0.77 -0.70

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Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 406H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3369.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 30' @ 3369.00usft (TBD)
Site:	POKER LAKE UNIT 28 BS	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,200.00 11,250.00 11,300.00 11,350.00 11,399.03	70.13 75.12 80.11 85.10 90.00	180.98 180.68 180.39 180.11 179.84	11,004.83 11,019.76 11,030.48 11,036.91 11,039.00	193.45 145.75 96.93 47.36 -1.61	-489.65 -490.34 -490.80 -491.02 -491.00	-194.81 -147.12 -98.30 -48.73 0.24	10.00 10.00 10.00 10.00 10.00	9.98 9.98 9.98 9.98 9.98 9.98	-0.64 -0.60 -0.58 -0.56 -0.55
TD - Landi	ng Point - 406	H FTP							
11,500.00 11,600.00 11,700.00 11,800.00 11,900.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-102.58 -202.58 -302.58 -402.58 -502.58	-490.72 -490.45 -490.18 -489.90 -489.63	101.21 201.21 301.21 401.21 501.21	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
12,000.00 12,100.00 12,200.00 12,300.00 12,400.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-602.58 -702.57 -802.57 -902.57 -1,002.57	-489.35 -489.08 -488.81 -488.53 -488.26	601.21 701.21 801.21 901.21 1,001.21	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
12,500.00 12,600.00 12,700.00 12,800.00 12,900.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-1,102.57 -1,202.57 -1,302.57 -1,402.57 -1,502.57	-487.99 -487.71 -487.44 -487.16 -486.89	1,101.21 1,201.21 1,301.21 1,401.21 1,501.21	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
13,000.00 13,100.00 13,200.00 13,300.00 13,400.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-1,602.57 -1,702.57 -1,802.57 -1,902.57 -2,002.57	-486.62 -486.34 -486.07 -485.79 -485.52	1,601.21 1,701.21 1,801.21 1,901.21 2,001.21	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
13,500.00 13,600.00 13,700.00 13,800.00 13,900.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-2,102.57 -2,202.57 -2,302.57 -2,402.57 -2,502.57	-485.25 -484.97 -484.70 -484.43 -484.15	2,101.21 2,201.21 2,301.21 2,401.21 2,501.21	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
14,000.00 14,100.00 14,200.00 14,300.00 14,400.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-2,602.57 -2,702.57 -2,802.57 -2,902.57 -3,002.57	-483.88 -483.60 -483.33 -483.06 -482.78	2,601.21 2,701.21 2,801.21 2,901.21 3,001.21	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
14,500.00 14,600.00 14,700.00 14,800.00 14,900.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-3,102.57 -3,202.57 -3,302.57 -3,402.56 -3,502.56	-482.51 -482.24 -481.96 -481.69 -481.41	3,101.21 3,201.21 3,301.21 3,401.21 3,501.21	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
15,000.00 15,100.00 15,200.00 15,300.00 15,400.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-3,602.56 -3,702.56 -3,802.56 -3,902.56 -4,002.56	-481.14 -480.87 -480.59 -480.32 -480.04	3,601.21 3,701.21 3,801.21 3,901.21 4,001.21	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,500.00 15,600.00 15,700.00 15,800.00 15,900.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-4,102.56 -4,202.56 -4,302.56 -4,402.56 -4,502.56	-479.77 -479.50 -479.22 -478.95 -478.68	4,101.21 4,201.21 4,301.21 4,401.21 4,501.21	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
16,000.00 16,100.00	90.00 90.00	179.84 179.84	11,039.00 11,039.00	-4,602.56 -4,702.56	-478.40 -478.13	4,601.21 4,701.21	0.00 0.00	0.00 0.00	0.00 0.00

06/16/23 6:16:32AM



Planning Report

Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference:	Well 406H
Project:	EDDY COUNTY, NM (NAD-27 / NME)	TVD Reference: MD Reference:	RKB = 30' @ 3369.00usft (TBD) RKB = 30' @ 3369.00usft (TBD)
Site:	POKER LAKE UNIT 28 BS	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/ - W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,200.00	90.00	179.84	11,039.00	-4,802.56	-477.85	4,801.21	0.00	0.00	0.00
16,300.00	90.00	179.84	11,039.00	-4,902.56	-477.58	4,901.21	0.00	0.00	0.00
16,400.00	90.00	179.84	11,039.00	-5,002.56	-477.31	5,001.21	0.00	0.00	0.00
16,500.00	90.00	179.84	11,039.00	-5,102.56	-477.03	5,101.21	0.00	0.00	0.00
16,600.00	90.00	179.84	11,039.00	-5,202.56	-476.76	5,201.21	0.00	0.00	0.00
16,700.00	90.00	179.84	11,039.00	-5,302.56	-476.49	5,301.21	0.00	0.00	0.00
16,800.00	90.00	179.84	11,039.00	-5,402.56	-476.21	5,401.21	0.00	0.00	0.00
16,900.00	90.00	179.84	11,039.00	-5,502.56	-475.94	5,501.21	0.00	0.00	0.00
17,000.00	90.00	179.84	11,039.00	-5,602.56	-475.66	5,601.21	0.00	0.00	0.00
17,100.00	90.00 90.00	179.84 179.84	11,039.00 11,039.00	-5,702.56 -5,802.56	-475.39 -475.12	5,701.21 5,801.21	0.00 0.00	0.00 0.00	0.00 0.00
17,200.00 17,300.00	90.00	179.84	11,039.00	-5,902.56	475.12	5,801.21	0.00	0.00	0.00
17,400.00	90.00	179.84	11,039.00	-6,002.56	-474.57	6,001.21	0.00	0.00	0.00
17,500.00	90.00	179.84	11,039.00	-6,102.55	-474.29		0.00	0.00	0.00
17,600.00	90.00	179.84	11,039.00	-6,202.55	474.29	6,101.21 6,201.21	0.00	0.00	0.00
17,700.00	90.00	179.84	11,039.00	-6,302.55	-473.75	6,301.21	0.00	0.00	0.00
17,800.00	90.00	179.84	11,039.00	-6,402.55	-473.47	6,401.21	0.00	0.00	0.00
17,900.00	90.00	179.84	11,039.00	-6,502.55	- 473.20	6,501.21	0.00	0.00	0.00
18,000.00	90.00	179.84	11,039.00	-6,602.55	-472.93	6,601,21	0.00	0.00	0.00
18,100.00	90.00	179.84	11,039.00	-6,702.55	-472.65	6,701.21	0.00	0.00	0.00
18,200.00	90.00	179.84	11,039.00	-6,802.55	-472.38	6,801.21	0.00	0.00	0.00
18,300.00	90.00	179.84	11,039.00	-6,902.55	-472.10	6,901.21	0.00	0.00	0.00
18,400.00	90.00	179.84	11,039.00	-7,002.55	-471.83	7,001.21	0.00	0.00	0.00
18,500.00	90.00	179.84	11,039.00	-7,102.55	-471.56	7,101.21	0.00	0.00	0.00
18,600.00	90.00	179 <u>.</u> 84	11,039.00	-7,202.55	-471.28	7,201.21	0.00	0.00	0.00
18,700.00	90.00	179.84	11,039.00	-7,302.55	-471.01	7,301.21	0.00	0.00	0.00
18,800.00 18,900.00	90.00 90.00	179 <u>.</u> 84 179.84	11,039.00 11,039.00	-7,402.55 -7,502.55	-470.74 -470.46	7,401.21 7,501.21	0.00 0.00	0.00 0.00	0.00 0.00
19,000.00	90.00	179.84	11,039.00	-7,602.55	-470.19	7,601.21	0.00	0.00	0.00
19,100.00 19,200.00	90.00 90.00	179.84 179.84	11,039.00 11,039.00	-7,702.55 -7,802.55	-469.91 -469.64	7,701.21 7,801.21	0.00 0.00	0.00 0.00	0.00 0.00
19,300.00	90.00	179.84	11,039,00	-7,902,55	-469.37	7,901.21	0.00	0.00	0.00
19,400.00	90.00	179.84	11,039.00	-8,002.55	-469.09	8,001.21	0.00	0.00	0.00
19,500.00	90.00	179.84	11,039.00	-8,102.55	-468.82	8,101,21	0.00	0.00	0.00
19,600.00	90.00	179.84	11,039.00	-8,202.55	-468.54	8,201.21	0.00	0.00	0.00
19,700.00	90.00	179.84	11,039.00	-8,302.55	-468.27	8,301.21	0.00	0.00	0.00
19,800.00	90.00	179.84	11,039.00	-8,402.55	-468.00	8,401.21	0.00	0.00	0.00
19,900.00	90.00	179.84	11,039.00	-8,502.55	-467.72	8,501.21	0.00	0.00	0.00
20,000.00	90.00	179.84	11,039.00	-8,602.55	-467.45	8,601.21	0.00	0.00	0.00
20,100.00	90.00	179.84	11,039.00	-8,702.54	-467.18	8,701.21	0.00	0.00	0.00
20,200.00	90.00	179.84	11,039.00	-8,802.54	-466.90	8,801.21	0.00	0.00	0.00
20,300.00	90.00	179.84	11,039.00	-8,902.54	-466.63	8,901.21	0.00	0.00	0.00
20,400.00	90.00	179.84	11,039.00	-9,002.54	-466.35	9,001.21	0.00	0.00	0.00
20,500.00	90.00	179.84	11,039.00	-9,102.54	-466.08	9,101.21	0.00	0.00	0.00
20,600.00	90.00	179.84	11,039.00	-9,202.54	-465.81	9,201.21	0.00	0.00	0.00
20,700.00 20,800.00	90.00 90.00	179.84 179.84	11,039.00 11,039.00	-9,302.54 -9,402.54	-465.53 -465.26	9,301.21 9,401.21	0.00 0.00	0.00 0.00	0.00 0.00
20,800.00	90.00	179.84	11,039.00	-9,402.54 -9,502.54	-465.26	9,401.21 9,501.21	0.00	0.00	0.00
21,000.00 21,100.00	90.00 90.00	179.84 179.84	11,039.00 11,039.00	-9,602.54 -9,702.54	-464.71 -464.44	9,601.21 9,701.21	0.00 0.00	0.00 0.00	0.00 0.00
21,100.00	90.00	179.84	11,039.00	-9,802.54	-464.16	9,701.21	0.00	0.00	0.00
21,300.00	90.00	179.84	11,039.00	-9,902.54	-463.89	9,901.21	0.00	0.00	0.00
21,400.00	90.00	179.84	11,039.00	-10,002.54	-463.62	10,001.21	0.00	0.00	0.00
21,500.00	90.00	179.84	11,039.00	-10,102.54	-463.34	10,101.21	0.00	0.00	0.00
06/16/23 6:16:32AM			,000100	Page 7			0.00		IDASS 5000 1 Ruild 74

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Page 7



Planning Report

Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well 406H
Company:	XTO Energy	TVD Reference:	RKB = 30' @ 3369.00usft (TBD)
Project:	EDDY COUNTY, NM (NAD-27 / NME)	MD Reference:	RKB = 30' @ 3369.00usft (TBD)
Site:	POKER LAKE UNIT 28 BS	North Reference:	Grid
Well:	406H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
21,600.00	90.00	179.84	11,039.00	-10,202.54	-463.07	10,201.21	0.00	0.00	0.00
21,700.00	90.00	179.84	11,039.00	-10,302.54	-462.79	10,301.21	0.00	0.00	0.00
21,800.00	90.00	179.84	11,039.00	-10,402.54	-462.52	10,401.21	0.00	0.00	0.00
21,900.00	90.00	179.84	11,039.00	-10,502.54	-462.25	10,501.21	0.00	0.00	0.00
22,000.00	90.00	179.84	11,039.00	-10,602.54	-461.97	10,601.21	0.00	0.00	0.00
22,100.00	90.00	179.84	11,039.00	-10,702.54	-461.70	10,701.21	0.00	0.00	0.00
22,200.00	90.00	179.84	11,039.00	-10,802.54	-461.43	10,801.21	0.00	0.00	0.00
22,300.00	90.00	179.84	11,039.00	-10,902.54	-461.15	10,901.21	0.00	0.00	0.00
22,400.00	90.00	179.84	11,039.00	-11,002.54	-460.88	11,001.21	0.00	0.00	0.00
22,500.00 22,600.00 22,700.00 22,800.00 22,900.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-11,102.54 -11,202.54 -11,302.54 -11,402.53 -11,502.53	-460.60 -460.33 -460.06 -459.78 -459.51	11,101.21 11,201.21 11,301.21 11,401.21 11,501.21	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
23,000.00	90.00	179.84	11,039.00	-11,602.53	-459.24	11,601.21	0.00	0.00	0.00
23,100.00	90.00	179.84	11,039.00	-11,702.53	-458.96	11,701.21	0.00	0.00	0.00
23,200.00	90.00	179.84	11,039.00	-11,802.53	-458.69	11,801.21	0.00	0.00	0.00
23,300.00	90.00	179.84	11,039.00	-11,902.53	-458.41	11,901.21	0.00	0.00	0.00
23,400.00	90.00	179.84	11,039.00	-12,002.53	-458.14	12,001.21	0.00	0.00	0.00
23,500.00 23,600.00 23,700.00 23,800.00 23,900.00	90.00 90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00 11,039.00	-12,102.53 -12,202.53 -12,302.53 -12,402.53 -12,502.53	-457.87 -457.59 -457.32 -457.04 -456.77	12,101.21 12,201.21 12,301.21 12,401.21 12,501.21	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
24,000.00	90.00	179.84	11,039.00	-12,602.53	-456.50	12,601.21	0.00	0.00	0.00
24,100.00	90.00	179.84	11,039.00	-12,702.53	-456.22	12,701.21	0.00	0.00	0.00
24,200.00	90.00	179.84	11,039.00	-12,802.53	-455.95	12,801.21	0.00	0.00	0.00
24,300.00	90.00	179.84	11,039.00	-12,902.53	-455.68	12,901.21	0.00	0.00	0.00
24,400.00	90.00	179.84	11,039.00	-13,002.53	-455.40	13,001.21	0.00	0.00	0.00
24,500.00 24,600.00 24,700.00 24,792,54 406H LTP	90.00 90.00 90.00 90.00	179.84 179.84 179.84 179.84 179.84	11,039.00 11,039.00 11,039.00 11,039.00	-13,102.53 -13,202.53 -13,302.53 -13,395.07	-455.13 -454.85 -454.58 -454.33	13,101.21 13,201.21 13,301.21 13,393.75	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
24,800.00	90.00	179.84	11,039.00	-13,402.53	-454.31	13,401.21	0.00	0.00	0.00
	90.00	179.84	11,039.00	-13,445.07	-454.19	13,443.75	0.00	0.00	0.00
406H BHL		170.04	11,000.00	10,740.07	-0-1.13	10,440.70	0.00	0.00	0.00

0.00

0.01 11,039.00



Planning Report

Database: Company: Project: Site: Well: Wellbore:	XTO Energ EDDY CO POKER LA 406H Wellbore #	UNTY, NM (I AKE UNIT 28	NAD-27 / N	IME)	TVD Refe MD Refer North Ref	ence:	RK RK Grid	Well 406H RKB = 30' @ 3369.00usft (TBD) RKB = 30' @ 3369.00usft (TBD) Grid Minimum Curvature	
Design: Design Targets Target Name	PERMIT								
- hit/miss target - Shape	Dip Angle (°)	e Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
406H SHL - plan hits target - Point	0.0 center	0 0.01	0.00	0.00	0.00	401,179.42	672,461	.67 32.1017338	-103.7763838
406H BHL - plan hits target	0.0 center	0 0.01	11,039.00	-13,445.07	-454.19	387,734.35	672,007	.48 32.0647807	-103.7780740

-491.00

401,177.81

671,970.67

32.1017363

-103.7779694

-103.7780736

Point

406H FTP

plan hits target center
Point 0.00 0.01 11,039.00 -13,395.07 406H LTP -454.32 387,784.35 672,007.35 32.0649182 plan misses target center by 0.01usft at 24792.54usft MD (11039.00 TVD, -13395.07 N, -454.33 E)
 Point

-1.61

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
927.00	927.00	Rustler	0,		
1,306.00	1,306.00	Top Salt			
4,050.27	4,043.00	Base Salt			
4,269.12	4,261.00	Delaware			
5,240.87	5,229.00	Cherry Canyon			
6,925.38	6,907.00	Brushy Canyon			
7,999.53	7,977.00	Basal Brushy Canyon			
8,222.39	8,199.00	Bone Spring Lime Fm			
8,360.92	8,337.00	Avalon Shale			
8,726.34	8,701.00	Avalon Lime			
8,994.37	8,968.00	1st Bone Spring Lime			
9,198.16	9,171.00	1st Bone Spring Ss			
9,616.78	9,588.00	2nd Bone Spring Lime			
9,900.87	9,871.00	2nd Bone Spring Ss			
10,056.48	10,026.00	2nd Bone Spring A Sand			
10,120.72	10,090.00	2nd Bone Spring T/B Carb			
10,233.16	10,202.00	2nd Bone Spring C Sand			
10,296.40	10,265.00	3rd Bone Spring Lm			
10,768.32	10,726.00	3rd Bone Spring Sh			
11,399.03	11,039.00	TD			
11,399.03	11,039.00	Landing Point			

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ХТО
LEASE NO.:	NMLC062140
LOCATION:	Sec. 28, T.25 S, R 31 E
COUNTY:	Eddy County, New Mexico 🔻
WELL NAME & NO.:	Poker Lake Unit 28 BS 406H
SURFACE HOLE FOOTAGE:	2435'/N & 719'/E
BOTTOM HOLE FOOTAGE:	50'/S & 2010'/E

COA

H ₂ S	\odot	No	C Yes				
Potash /	None	Secretary	🖸 R-111-Q	🔟 Open Annulus			
WIPP	Choose	e an option (including bla	nk option.)	🔲 WIPP			
Cave / Karst	C Low	O Medium	🖲 High	C Critical			
Wellhead	Conventional	Multibowl	O Both	O Diverter			
Cementing	🔽 Primary Squeeze	🗖 Cont. Squeeze	🔽 EchoMeter	🔲 DV Tool			
Special Req	🗖 Capitan Reef	🔲 Water Disposal	COM	🔽 Unit			
Waste Prev.	© Self-Certification	🖱 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.

B. CASING

- 1. The **9-5/8** inch surface casing shall be set at approximately **1027** 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 **7-5/8** inch 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 6827'
- b. Second stage: Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. Excess calculates to 17%. Additional cement maybe required.

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

In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

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

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. 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)

<u>Unit Wells</u>

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

Commercial Well Determination

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

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.

Page 3 of 13

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

A. CASING

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

Page 4 of 13

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

B. PRESSURE CONTROL

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

requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

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

open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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 9/30/2024

575-234-5998 / zstevens@blm.gov

GENERAL REQUIREMENTS

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

- d. Spudding well (minimum of 24 hours)
- e. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- f. BOPE tests (minimum of 4 hours)

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Page 9 of 13

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G. DRILLING MUD

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H. 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 9/30/2024

575-234-5998 / zstevens@blm.gov



HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H_2S , and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

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

Characteristics of H₂S and SO₂

	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 ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

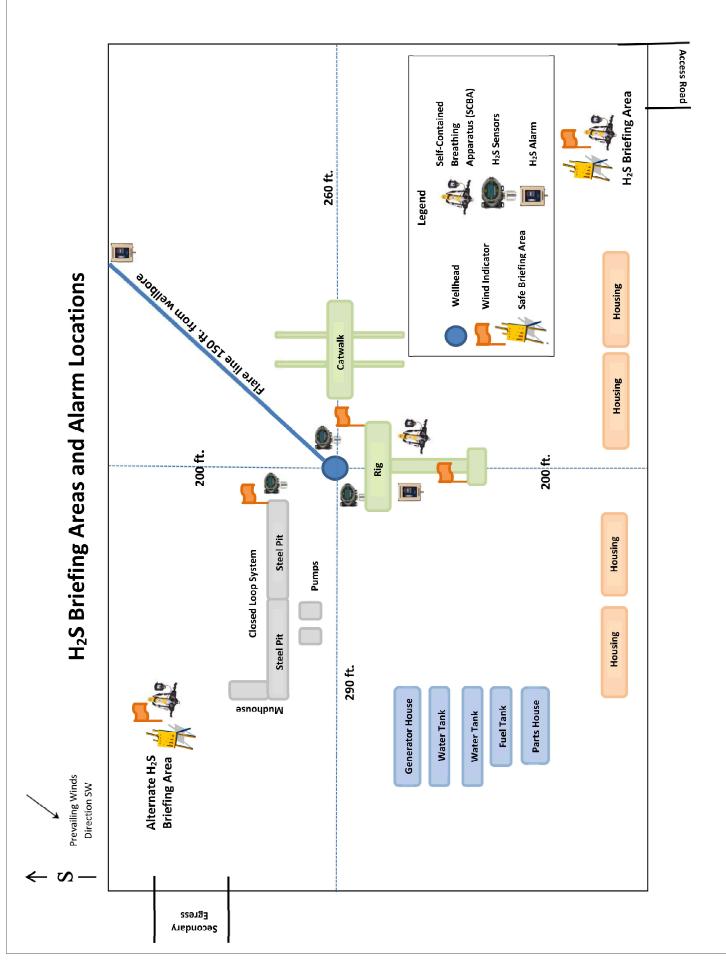
Contacting Authorities

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

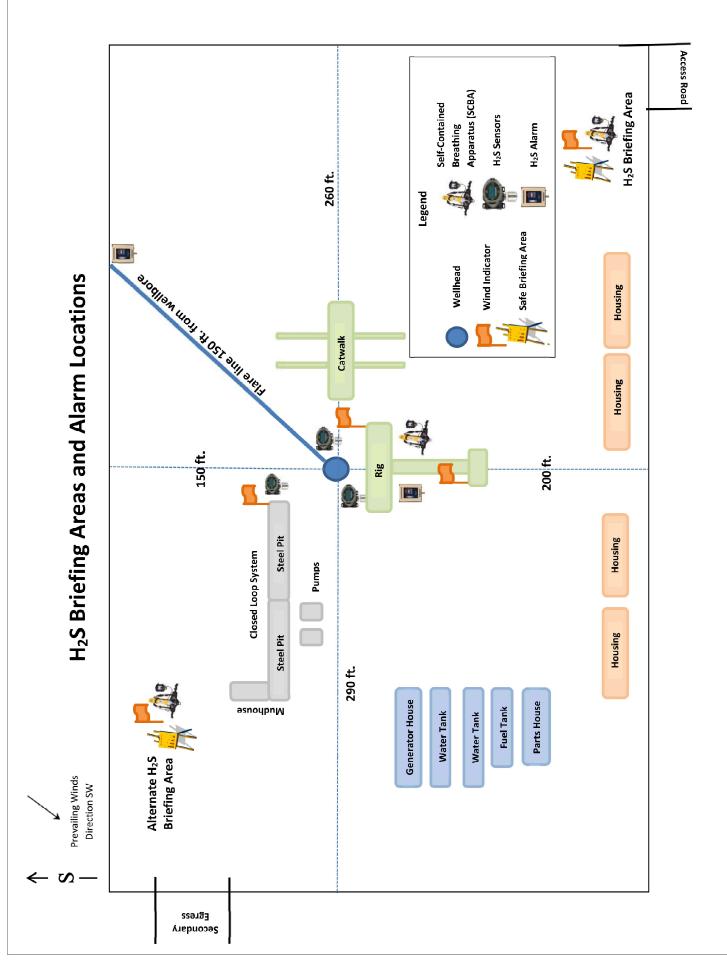
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CARLSBAD OFFICE – EDDY & LEA COUNTIES

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



Released to Imaging: 11/1/2024 11:26:55 AM



Released to Imaging: 11/1/2024 11:26:55 AM

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28 BS

Well Number: 406H

Safe containmant attachment:

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

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area 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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28 BS

Well Number: 406H

Section 9 - Well Site

Well Site Layout Diagram:

PLU_28_BS_406H_Well_20230929181206.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: PLU 28 BS

Multiple Well Pad Number: D

Recontouring

PLU_28_BS_IR1_20240620093649.pdf

PLU_28_BS_IR2_20240620093649.pdf

PLU_28_BS_IR3_20240620093649.pdf

PLU 28 BS IR4 20240620093650.pdf

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

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

Well pad proposed disturbance (acres): 11.88 Road proposed disturbance (acres):	Well pad interim reclamation (acres): 1.05 Road interim reclamation (acres): 0	Well pad long term disturbance (acres): 10.83 Road long term disturbance (acres): 0.76
0.76		
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres) :	(acres): 0
Pipeline proposed disturbance (acres): 6.93	Pipeline interim reclamation (acres): 6.93	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): (Other long term disturbance (acres): 0
Total proposed disturbance: 19.57	Total interim reclamation: 7.97999999999999995	Total long term disturbance: 11.59

Disturbance Comments:

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

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

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 28 BS

Well Number: 406H

Existing Vegetation at the well pad: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite. sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

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Action 393204

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	393204
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	11/1/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	11/1/2024
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.	11/1/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/1/2024
ward.rikala	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/1/2024
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.	11/1/2024