Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** 5. Lease Serial No. DEPARTMENT OF THE INTERIOR NMLC061634B BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: NMNM071016X/POKER LAKE UNIT 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone POKER LAKE UNIT 30 BS 308H 2. Name of Operator 9. API Well No. XTO PERMIAN OPERATING LLC 30**-0**15**-5**5962 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory WC-015 G-06 S243119C/BONE SPRING 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970 (432) 683-2277 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 30/T25S/R31E/NMP At surface SWNE / 2435 FNL / 1979 FEL / LAT 32.101845 / LONG -103.81528 At proposed prod. zone SWSE / 50 FSL / 2440 FEL / LAT 32.064818 / LONG -103.816834 12. County or Parish 14. Distance in miles and direction from nearest town or post office\* 13 State **EDDY** NM 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 1979 feet location to nearest 880.0 property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet FED: COB000050 9783 feet / 23615 feet applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3366 feet 08/20/2024 45 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date CASSIE EVANS / Ph: (432) 682-8873 (Electronic Submission) 09/29/2023 Title Regulatory Analyst Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 07/23/2024 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Conditions of approval, if any, are attached.

#### 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: SWNE / 2435 FNL / 1979 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101845 / LONG: -103.81528 ( TVD: 0 feet, MD: 0 feet ) PPP: NWSE / 2569 FNL / 2439 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101228 / LONG: -103.81677 ( TVD: 9783 feet, MD: 10800 feet ) PPP: NWSE / 2654 FNL / 2424 FEL / TWSP: 25S / RANGE: 31E / SECTION: 31 / LAT: 32.086628 / LONG: -103.816795 ( TVD: 9783 feet, MD: 16100 feet ) PPP: SWNE / 2435 FNL / 2440 FEL / TWSP: 25S / RANGE: 31E / SECTION: 30 / LAT: 32.101843 / LONG: -103.816768 ( TVD: 9783 feet, MD: 10200 feet ) BHL: SWSE / 50 FSL / 2440 FEL / TWSP: 26S / RANGE: 31E / SECTION: 6 / LAT: 32.064818 / LONG: -103.816834 ( TVD: 9783 feet, MD: 23615 feet )

### **BLM Point of Contact**

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

# **Review and Appeal Rights**

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



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API Nu	mber		Pool Code		WELL LOCATION Pool Nam			)U2O·	Rone	Spri	na		
30-0	<sup>15</sup> -559	62	9	7975 9	7913	wc-015 G06 S2	243119C; Bor	ne Spring	Bone				
Propert	y Code 3 <b>27328</b>		Property Name	POKE	ER LAKE UNIT 30 BS					Well N 308H			
ORGIE	No.		Operator Name	XTO	PERMIAN OPERATIN	IG, LLC.					Level Elevation		
3730		g				Minaral Oncorn				3,366	5'		
Surface	Owner: [ ]	State   F	ee 🗌 Tribal 🗶	Federal		Mineral Owner:	State Fee	∐ Triba	I ⊠ Fed	eral			
UL	Section	Township	p Range	Lot	Surface Ft. from N/S	Location Ft. from E/W	Latitude	I	ongitude		County		
G	30	25 S	31 E	Lot	2,435' FNL	1,979' FEL	32.10184		-103.81	5280	EDDY		
Y 17	G .:		. D	ν.	1	ole Location	7						
UL O	Section 6	Township 26 S	P Range 31 E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 2,440' FEL	Latitude 32.06481		ongitude -103.81	6834	County EDDY		
Dedicate 880	ed Acres	Infill or D	efining Well NING	Definin	g Well API	Overlapping Spacing Y	Unit (Y/N)	Consolida U	tion Code	;			
	Jumbers.					Well setbacks are und	ler Common Ov		▼ Yes [	□ No			
								1 1					
	Ι	T			1	Point (KOP)	1				T		
UL G	Section 30	Township 25 S	p Range 31 E	Lot	Ft. from N/S 2,435' FNL	Ft. from E/W 1,979' FEL	Latitude 32.10184		ongitude -103.81	5280	County EDDY		
					First Take	Point (FTP)							
UL G	Section 30	Township 25 S	Range 31 E	Lot	Ft. from N/S 2,435' FNL	Ft. from E/W 2,440' FEL	Latitude 32,10184		ongitude -103.81	3768	County EDDY		
					,	Point (LTP)							
UL	Section	Township	.   -	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	2004	County		
0	6	26 S	31 E		100' FSL	2,440' FEL 32.064956 -103.816834 EDDY							
Unitize	d Area or Are	ea of Unifor	n Interest	Spacin	g Unit Type 🔀 Horizor	atal  Vertical	Grou	nd Floor E	Elevation:				
Cintize	Alca of Alc	NMNM	-071016X	Spacin	g chit Type 🖂 Horizon	tiai   Verticai	Giou	11001 1	zievation.	3,366'			
OPE	RATOR C	ERTIFIC	ATIONS			SURVEYOR (	CERTIFICA	TIONS					
012		EI(III IC	77770715			SURVEYOR CERTIFICATIONS							
					e and complete to the either owns a working	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same							
interest	or unleased r	nineral inte	rest in the land in	cluding th	ne proposed bottom hole want to a contract with	is true and correct  I, TIM C. PAPPAS, NEW	MEXICO PROFESS	SIONAL SURV					
an own	er of such a m	ineral or w	orking interest, or ing order heretofo	· to a volu	ntary pooling	21209, DO HEREBY CE ACTUAL SURVEY ON TH WERE PERFORMED BY	IE GROUND UPON ME OR UNDER MY	WHICH IT IS DIRECT SU	S BASED IPERVISION;	W	C. PAPP		
	•				anization has received	THAT I AM RESPONSIBL MEETS THE MINIMUM S' MEXICO, AND THAT IS	TANDARDS FOR SU TRUE AND CORREC	IRVEYING IN	NEW /		M WEXICO O		
					rest or unleased mineral ich any part of the well's	MY KNOWLEDGE AND B	14.				21209		
	ed interval w				pooling form the	TIM C. DADDAS	run_	·	\.	<b>%</b>			
_	۷.					TIM C. PAPPAS REGISTERED PROFESSIO STATE OF NEW MEXICO	DNAL LAND SURVE NO. 21209	ror .	\	Oris	CURVE		
lerr	a Sebasti	an	12/1	2/2024		-				-,3	YONAL SURVEY		
Signatu	re		Ι	Date		Signature and Seal	of Professional	Surveyor					
Terr	a Sebastiar	1											
Printed	Name					Certificate Number	D	ate of Surv	vey				
terra	ı.b.sebastia	an@exxor	mobil.com			TIM C. PAPPAS	S 21209	7/10/20	024				
Email A													
	Note: No al	lowable wil	l be assigned to t	his comp	letion until all interests i	have been consolidated	d or a non-stand	dard unit l	has been	approve	d by the division.		



2821 West 7th Street., Ste 200 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBP15 Firm 10193887
www.fscinc.net
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DATE: DRAWN BY: CHECKED BY: FIELD CREW:

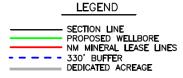
11-7-2024 LM CH IR 2023040188

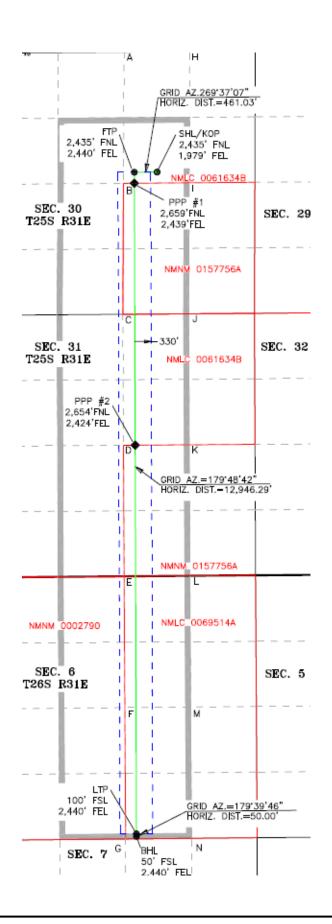
PROJECT NO: SCALE: SHEET: 1 OF 2 REVISION: NO

## 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.





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SHL/KUP Y =	(NAD83 NME)	Y=	IAD83 NME)
	401,173.1	, -	507,754.5
X =	701,751.2	X =	701,334.1
LAT. =		LAT. =	221001220 11
	103.815280 °W		
FTP (N	IAD83 NME)	BHL (N	AD83 NME)
Υ =	401,170.1	Y =	387,701.3
X =	701,290.2	X =	701,334.4
LAT. =	32.101843 "N	LAT. =	32.064818 °N
LONG. =	103.816768 °W	LONG. =	103.816834 °W
PPP #1	(NAD83 NME)	PPP #2	(NAD83 NME)
Y =	400,946.5	Y =	395,635.3
X =	701,290.9	X =	701,308.3
LAT. =	32.101228 "N	LAT. =	32.086628 "N
LONG. =	103.816770 °W	LONG. =	103.816795 °W
(	CORNER COORDIN	ATES (NAD83	NME)
A - Y =	403,603.8 N ,	X =	701,083.0 E
B - Y =	400,944.7 N	X =	701,070.7 E
C - Y =	398,288.0 N	X =	701,058.4 E
D - Y =	395,633.7 N ,	X =	701,071.1 E
E - Y =	392,974.7 N ,	X =	701,083.8 E
F - Y =	390,312.1 N ,	X =	701,099.4 E
G - Y =	387,649.2 N ,	X =	
H - Y =	403,612.5 N ,	X =	
I - Y =	400,955.6 N ,	X =	702,400.1 E
J - Y =	398,298.0 N	X =	702,389.1 E
K - Y =	395,642.9 N	X =	
L-Y=	303 00F F N	X =	
M-Y=	300 333 0 N	X =	702,428.8 E
N - Y =	207.661.0.11	X =	702,444.8 E
	(NAD27 NME)		IAD27 NME)
Y =	401,115.2	Y=	387,693.7
X =	660,565.6	X =	660,148.1
LAT. =	32.101720 *N	LAT. =	
	103.814801 *W		
Y =	IAD27 NME)	Y=	AD27 NME)
	401,112.2		
X =	660,104.6	X =	
LAT. =			32.064693 °N
	103.816289 *W		
	(NAD27 NME)		(NAD27 NME)
	400,888.5		395,577.6
X =	660,105.3	X =	660,122.5
LAT. =	32.101103 *N	LAT. =	32.086504 °N
LONG. =	103.816291 "W	LONG. =	103.816317 "W
	CORNER COORDIN	ATES (NAD27	NME)
A W-	403,545.8 N ,	X =	659,897.5 E
A - Y =		X =	659,885.1 E
B - Y =	400,886.7 N ,	^-	039,003.1 E
	400,886.7 N , 398,230.1 N ,	X =	659,872.7 E
B - Y =	200 220 4 84		
B - Y = C - Y =	398,230.1 N ,	X =	659,872.7 E
B - Y = C - Y = D - Y =	398,230.1 N , 395,575.9 N ,	X = X =	659,872.7 E 659,885.3 E
B - Y = C - Y = D - Y = E - Y =	398,230.1 N , 395,575.9 N , 392,917.0 N ,	X = X = X =	659,872.7 E 659,885.3 E 659,897.9 E
B - Y = C - Y = D - Y = E - Y = F - Y =	398,230.1 N , 395,575.9 N , 392,917.0 N , 390,254.4 N ,	X = X = X = X =	659,872.7 E 659,885.3 E 659,897.9 E 659,913.5 E
B - Y = C - Y = D - Y = E - Y = F - Y = G - Y =	398,230.1 N , 395,575.9 N , 392,917.0 N , 390,254.4 N , 387,591.6 N ,	X = X = X = X =	659,872.7 E 659,885.3 E 659,897.9 E 659,913.5 E 659,929.0 E
B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = H - Y =	398,230.1 N , 395,575.9 N , 392,917.0 N , 390,254.4 N , 387,591.6 N , 403,554.5 N ,	X = X = X = X = X =	659,872.7 E 659,885.3 E 659,897.9 E 659,913.5 E 659,929.0 E 661,224.9 E
B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = I - Y =	398,230.1 N , 395,575.9 N , 392,917.0 N , 390,254.4 N , 387,591.6 N , 403,554.5 N , 400,897.7 N , 398,240.1 N ,	X = X = X = X = X = X =	659,872.7 E 659,885.3 E 659,897.9 E 659,929.0 E 661,224.9 E 661,214.5 E
B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = I - Y = J - Y =	398,230.1 N , 395,575.9 N , 392,917.0 N , 390,254.4 N , 387,591.6 N , 403,554.5 N , 400,897.7 N , 396,240.1 N , 396,585.1 N ,	X = X = X = X = X = X = X = X = X = X =	659,872.7 E 659,885.3 E 659,897.9 E 659,929.0 E 661,224.9 E 661,214.5 E 661,203.4 E
B - Y = C - Y = D - Y = E - Y = F - Y = G - Y = I - Y = J - Y = K - Y =	398,230.1 N , 395,575.9 N , 392,917.0 N , 390,254.4 N , 387,591.6 N , 403,554.5 N , 400,897.7 N , 398,240.1 N , 395,585.1 N ,	X = X = X = X = X = X = X = X = X = X =	659,872.7 E 659,885.3 E 659,897.9 E 659,929.0 E 661,224.9 E 661,214.5 E 661,203.4 E 661,215.8 E



 DATE:
 11-7-2024
 PROJECT NO:
 2023040188

 DRAWN BY:
 LM
 SCALE:

 CHECKED BY:
 CH
 SHEET:
 2 OF 2

 FIELD CREW:
 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. Type: ⊠ Ori	ginal 🗆	Amendme	nt due to □	19.15.27.9.D	(6)(a) NMAC	□ 19.15.27.9.I	O(6)(b) NMA(	C □ Other.	
f Other, please d	escribe:								
II. Well(s): Prov	rida tha t	followin a in	oformation :	fam aaab marri	on no commista	d reall on out of	Servalla muomoa	d to be duilled	on managed
e recompleted fr							wens propose	ed to be diffied	or proposed
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	3 yr Anticipated decline Oil BBL/D	Anticipated Gas MCF/D	3 yr Anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr Anticipated decline Water BBL/D
POKER LAKE UNIT 30 BS 108H	TBD	30 T25S R31E	2435 FNL, 455 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 109H	TBD	30 T25S R31E	2435 FNL, 485 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 110H	TBD	30 T25S R31E	2435 FNL, 515 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 208H	TBD	30 T25S R31E	2435 FNL, 1980 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 209H	TBD	30 T25S R31E	2435 FNL, 2010 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 210H	TBD	30 T25S R31E	2435 FNL, 2040 FWL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 308H	TBD	30 T25S R31E	2435 FNL, 1979 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 309H	TBD	30 T25S R31E	2435 FNL, 1949 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 310H	TBD	30 T25S R31E	2435 FNL, 1919 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 408H	TBD	30 T25S R31E	2435 FNL, 659 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 409H	TBD	30 T25S R31E	2435 FNL, 629 FEL	1,900	200	3,250	900	3,750	400
POKER LAKE UNIT 30 BS 410H	TBD	30 T25S R31E	2435 FNL, 599 FEL	1,900	200	3,250	900	3,750	400
V. Central Deli	very Poi	nt Name:_		PLU 30 B	S CTB		[See 1	9.15.27.9(D)(1)	NMAC]

TD Reached

Date

TBD

Completion

Commencement Date

TBD

Spud Date

**TBD** 

API

TBD

Page **1** of **6** 

First Production

Date

TBD

**Initial Flow** 

**Back Date** 

**TBD** 

Well Name

POKER LAKE UNIT

30 BS 108H

POKER LAKE UNIT	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 109H						
POKER LAKE UNIT	<b>TBD</b>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 110H						
POKER LAKE UNIT	<b>TBD</b>	<u>TBD</u>	<u>TBD</u>	<b>TBD</b>	<b>TBD</b>	<u>TBD</u>
30 BS 208H						
POKER LAKE UNIT	<b>TBD</b>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 209H						
POKER LAKE UNIT	<b>TBD</b>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 210H						
POKER LAKE UNIT	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 308H						
POKER LAKE UNIT	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 309H						
POKER LAKE UNIT	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 310H						
POKER LAKE UNIT	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 408H						
POKER LAKE UNIT	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 409H						
POKER LAKE UNIT	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
30 BS 410H						

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

VII. Operational Practices: 

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

VIII. Best Management Practices: 

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

# Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

### IX. Anticipated Natural Gas Production:

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

# X. Natural Gas Gathering System (NGGS):

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

VI Man - A 44 . 1			1	
•	_	1 1	* * * *	nticipated pipeline route(s) connecting the
				em(s), and the maximum daily capacity of
the segment or porti	on of the natural gas g	athering system(s) to	which the well(s) will be con-	nected.
XII. Line Capacity	. The natural gas gathe	ering system 🗵 will [	$\square$ will not have capacity to g	gather 100% of the anticipated natural gas
production volume f	from the well prior to the	he date of first produc	ction.	
r	F	r r		
XIII Line Pressure	e Operator □ does □	does not anticipate th	at its existing well(s) connect	ted to the same segment, or portion, of the
	*		<b>O</b> , , ,	n line pressure caused by the new well(s).
naturai gas gamering	g system(s) described a	ibove will continue to	meet anticipated mereases in	Time pressure caused by the new wen(s).
□ A445 -15 O	1 4 4.		d	
☐ Attach Operator	s plan to manage produ	iction in response to t	the increased line pressure.	
				~
	•	• 1		SA 1978 for the information provided in
Section 2 as provide	d in Paragraph (2) of S	ubsection D of 19.15	.27.9 NMAC, and attaches a f	full description of the specific information
for which confidenti	iality is asserted and th	e hasis for such assert	tion	

# Section 3 - Certifications Effective May 25, 2021

# **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: 11/4/2024									
Phone: +1-832-625-7361									
OIL CONSERVATION DIVISION									
(Only applicable when submitted as a standalone form)									
Approved By:									
Title:									
Approval Date:									
Conditions of Approval:									

### VI. Separation Equipment:

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

#### VII. Operational Practices

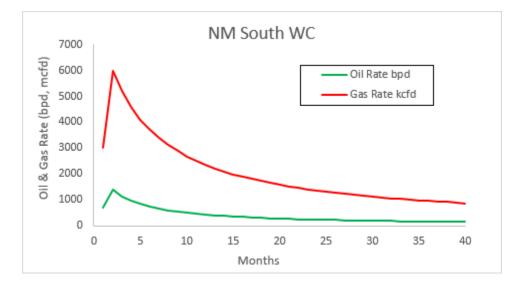
XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

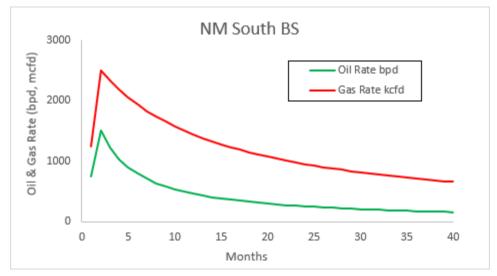
- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, XTO will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

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

# VIII. Best Management Practices during Maintenance

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







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

Well Name: POKER LAKE UNIT 30 BS

# Drilling Plan Data Report 10/07/2024

**APD ID:** 10400094850

Submission Date: 09/29/2023

Highlighted data reflects the most recent changes

**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Number: 308H

Well Type: OIL WELL

Well Work Type: Drill

**Show Final Text** 

# **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13828414	QUATERNARY	3366	0	0	ALLUVIUM	USEABLE WATER	N
13828415	RUSTLER	2382	984	984	ANHYDRITE, SANDSTONE	USEABLE WATER	N
13828416	TOP SALT	2055	1311	1311	SALT	NONE	N
13828417	BASE OF SALT	-606	3972	3972	SALT	NONE	N
13828418	DELAWARE	-816	4182	4182	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	N
13828419	BONE SPRING	-4642	8008	8008	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	Y
13828420	BONE SPRING 1ST	-5594	8960	8960	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y
13828421	BONE SPRING 2ND	-6317	9683	9683	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Y

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

Pressure Rating (PSI): 5M Rating Depth: 9783

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. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Wellhead: Permanent Wellhead Multibowl System A. Starting Head: 20" 10M top flange x 9-5/8" SOW bottom B. Tubing Head: 11" 10M bottom flange x 7-1/16" 15M top flange

#### Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

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. Based on discussions with the BLM on February 27th 2020, 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. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the surface casing, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the intermediate casing, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

### **Choke Diagram Attachment:**

PLU\_30\_BS\_5MCM\_20230926040012.pdf

### **BOP Diagram Attachment:**

PLU\_30\_BS\_5MBOP\_20240610074606.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	N	0	1084	0	1084	3366	2282	1084	J-55		OTHER - BTC	5.24	1.56	DRY	14.5 3	DRY	14.5 3
2	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	8900	0	8900	0	-5534	8900	L-80	-	OTHER - FLUSH JOINT	2.25	1.86	DRY	2.79	DRY	2.79
3	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	23615	0	9783	0	-6417	23615	P- 110		OTHER - SEMI- FLUSH	2.49	1.21	DRY	4.91	DRY	4.91

# **Casing Attachments**

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

**Casing Attachments** 

Casing ID: 1

**String** 

**SURFACE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

PLU\_30\_BS\_308H\_Csg\_20230927121200.pdf

Casing ID: 2

String

INTERMEDIATE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

PLU\_30\_BS\_308H\_Csg\_20230927121916.pdf

Casing Design Assumptions and Worksheet(s):

PLU\_30\_BS\_308H\_Csg\_20230927122001.pdf

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

PLU\_30\_BS\_308H\_Csg\_20230927120905.pdf

Casing Design Assumptions and Worksheet(s):

PLU\_30\_BS\_308H\_Csg\_20230927121000.pdf

**Section 4 - Cement** 

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1084	240	1.87	12.9	462	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	1084	130	1.35	14.8	188	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	8900	0	2.16	12.9	0	100	Class C	NA
INTERMEDIATE	Tail		0	8900	730	1.33	14.8	975	100	Class C	NA
INTERMEDIATE	Lead	6450	0	8900	350	2.77	10.5	975	100	Class C	NA
INTERMEDIATE	Tail		0	9950	220	1.35	14.8	299	100	Class C	NA
PRODUCTION	Lead		0	2361 5	20	2.69	11.5	76	20	NeoCem	NA
PRODUCTION	Tail		0	2361 5	1030	1.51	13.2	1557	20	VersaCem	NA

# **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

# **Circulating Medium Table**

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1084	4182	SALT SATURATED	10.5	11							
8900	2361 5	OIL-BASED MUD	11.5	12							
0	1084	WATER-BASED MUD	8.7	9.2							
4182	8900	OTHER : BDE/OBM or FW/Brine	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, CEMENT BOND LOG, MEASUREMENT WHILE DRILLING, MUD

LOG/GEOLOGICAL LITHOLOGY LOG, Coring operation description for the well:

No coring is planned for the well.

### **Section 7 - Pressure**

**Anticipated Bottom Hole Pressure: 5850 Anticipated Surface Pressure: 3697** 

Anticipated Bottom Hole Temperature(F): 175

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

PLU\_30\_BS\_H2S\_Plan\_20240328134452.pdf PLU\_30\_BS\_H2S\_DiaA\_20240606075145.pdf

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

PLU\_30\_BS\_H2S\_DiaB\_20240606075146.pdf PLU\_30\_BS\_H2S\_DiaC\_20240606075147.pdf PLU\_30\_BS\_H2S\_DiaD\_20240606075148.pdf

## **Section 8 - Other Information**

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

PLU\_30\_BS\_308H\_DD\_20230927122649.pdf

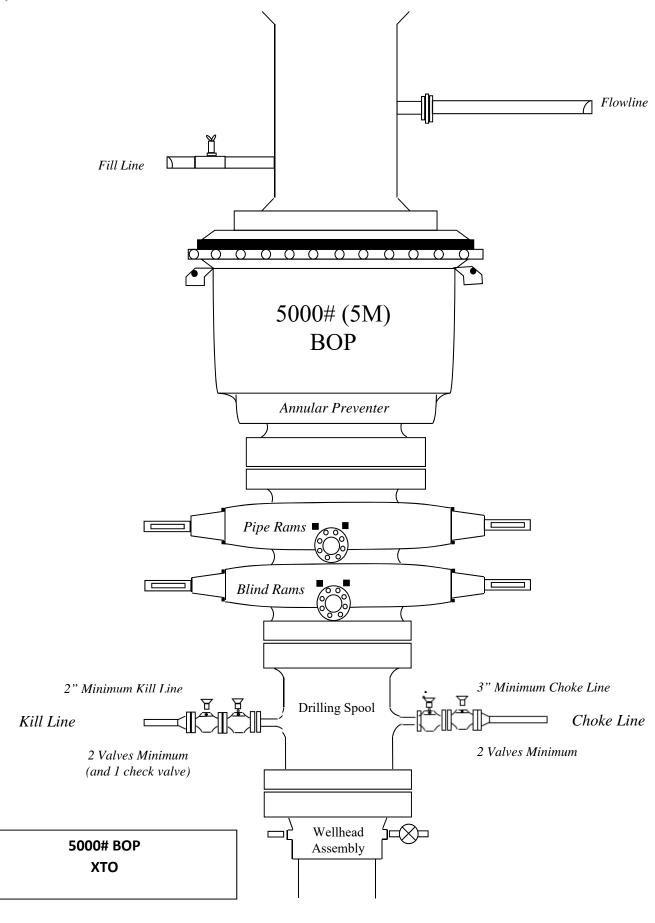
# Other proposed operations facets description:

## Other proposed operations facets attachment:

PLU\_30\_BS\_308H\_Cmt\_20240328115629.pdf PLU\_30\_BS\_MBS\_20240606060612.pdf

## **Other Variance attachment:**

PLU\_30\_BS\_FH\_20230921042356.pdf PLU\_30\_BS\_OLCV\_20230921042355.pdf PLU\_30\_BS\_Spud\_20230921042355.pdf PLU\_30\_BS\_BOP\_BTV\_20240328134627.pdf



# **Casing Assumptions**

Casing	g Design									
	Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
	12.25	0' – 1084'	9.625	40	J-55	BTC	New	1.56	5.24	14.53
	8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.56	2.65	2.11
	8.75	4000' – 8900'	7.625	29.7	HC L-80	Flush Joint	New	1.86	2.25	2.79
	6.75	0' – 8800'	5.5	23	RY P-110	Semi-Premium	New	1.21	2.76	2.13
	6.75	8800' - 9500'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.56	4.35
	6.75	9500' - 23615'	5.5	23	RY P-110	Semi-Flush	New	1.21	2.49	4.91

### **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 (6514') 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 180 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

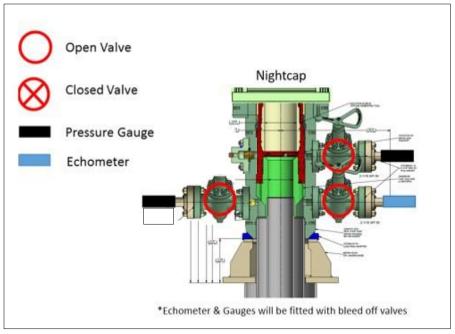
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

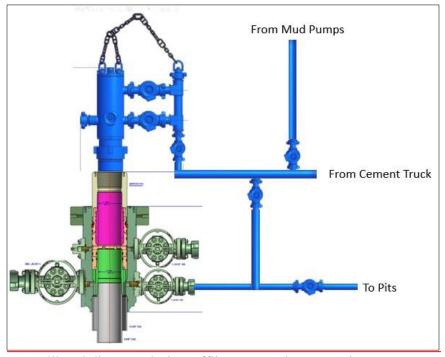
#### **XTO Permian Operating, LLC Offline Cementing Variance Request**



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

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



Wellhead diagram during offline cementing operations

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



GATES E & S NORTH AMERICA, INC

**DU-TEX** 

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX: 361-887-0812

EMAIL: crpe&s@gates.com

WEB: www.gates.com

# GRADE D PRESSURE TEST CERTIFICATE

Customer: Customer Ref. :

Invoice No.:

AUSTIN DISTRIBUTING

PENDING 201709

Test Date:

Hose Senal No.:

Created By:

6/8/2014

D-060814-1

NORMA

Product Description:

FD3.042.0R41/16.5KFLGE/E LE

End Filting 1:

Gates Part No. :

Working Pressure:

4 1/16 in.5K FLG 4774-6001 5,000 PSI

End Fitting 2: Assembly Code:

Test Pressure:

4 1/16 in.5K FLG

L33090011513D-060814-1

7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:

Date:

Signature:

QUALITY

6/8/2014

Technical Supervisor:

Date:

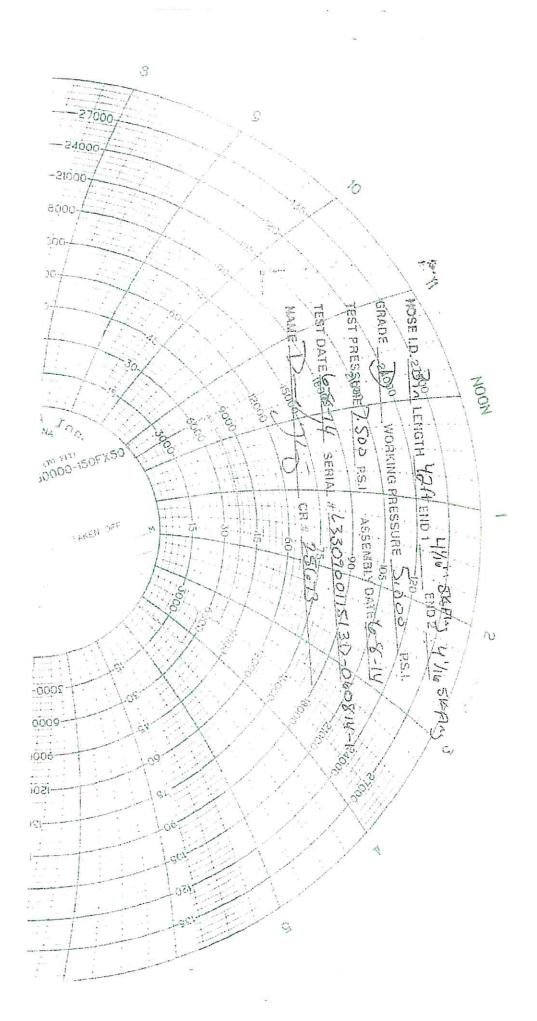
Signature:

**PRODUCTION** 

6/8/2014

Form PTC - 01 Rev.0 2

Reteased to Imaging: 1/9/2025 8:55:23 AM



**<u>Subject:</u>** 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 Pressureac					
Component to be Pressure Tested	Pressure Test—Low Pressure <sup>ac</sup> psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket				
Annular preventer <sup>b</sup>	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.				
xed pipe, variable bore, nd, and BSR preventers <sup>bd</sup> 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 <sup>e</sup>	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP				
hoke manifold—downstream f chokese 250 to 350 (1.72 to 2.41) RWP of valve(s), line(s), or MASP for the well pro whichever is lower							
celly, kelly valves, drill pipe afety 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	during the evaluation period. The persure tested on the largest and sm	oressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program.				

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 Oand 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

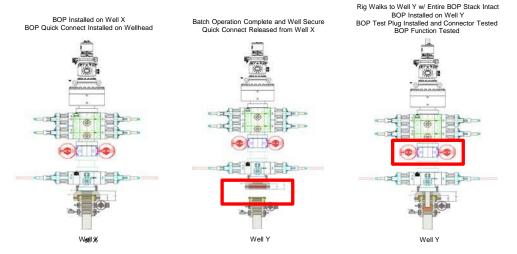
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

### **Procedures**

- 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



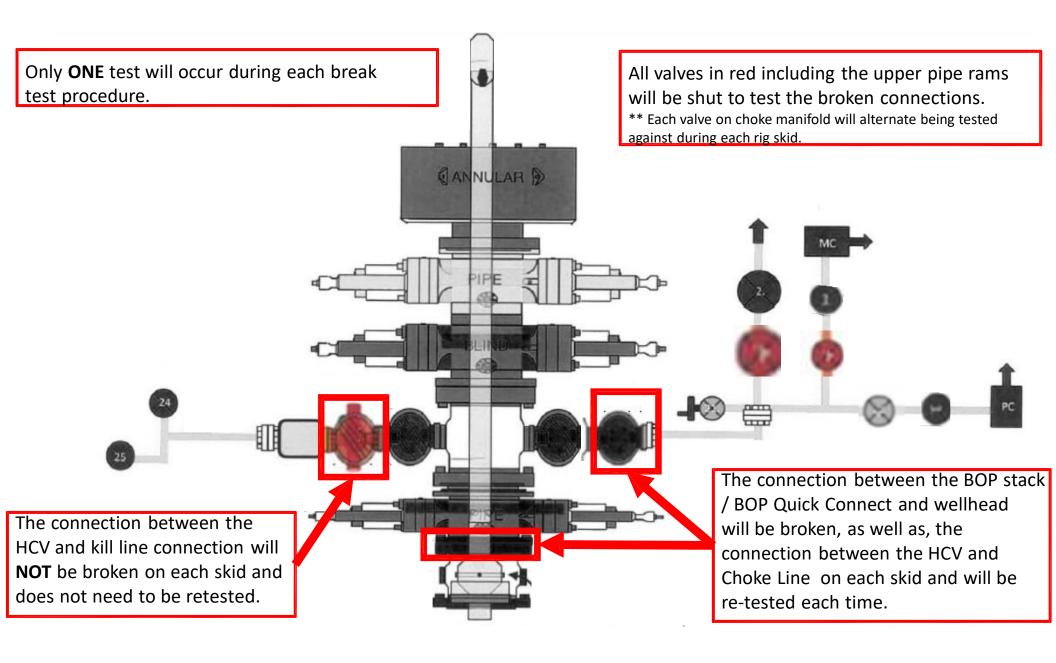
#### **Summary**

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.



ALL DIMENSIONS APPROXIMA

# CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

	XTO ENERGY IN	С
	DELAWARE BASI	Ν
DRAWN	VJK	31MA

APPRV

DRAWIN

DRAWING NO. HBE0000479

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



# **XTO Energy**

EDDY COUNTY, NM (NAD-27) POKER LAKE UNIT 30 BS 308H

Wellbore #1

**Plan: PERMIT** 

# **Standard Planning Report**

26 June, 2023

Released to an darges incured either directly 20165 to 15 50 23 was AM.



Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone: New Mexico East 3001
System Datum: Mean Sea Level

West(-)/East(+) (2500 usft/in)

Plan: PERMIT (308H/Wellbore #1)

Date: 10:41, June 26 2023

Created By: Matthew May

-2500

-1250

308H FTP

1250

2500

-1250

-0

-1250

-2500



#### WELL DETAILS: 308H

Project: EDDY COUNTY, NM (NAD-27) Site: POKER LAKE UNIT 30 BS Well: 308H Wellbore: Wellbore #1 Design: PERMIT

			Rig Name: RKB = 30' @ 3396	.00usft (TBD)	
			Ground Level:	3366.00	
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	401115.22	660565.61	32.1017204	-103.8148007

#### SECTION DETAILS

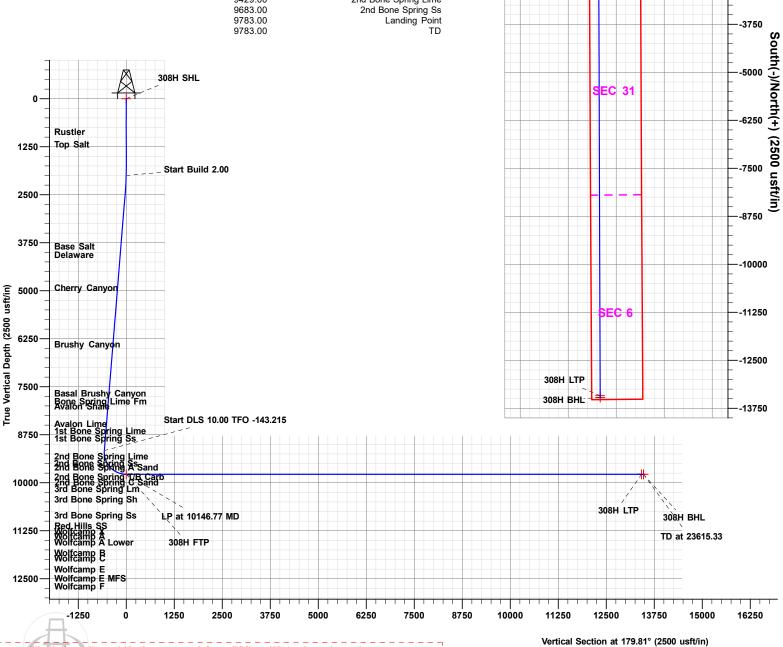
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.0ŏ	0.000	0.00	· ·
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00	
3	2288.70	5.77	323.17	2288.21	11.63	-8.71	2.00	323.168	-11.66	
4	9200.47	5.77	323.17	9164.92	568.19	-425.55	0.00	0.000	-569.59	
5	10146.77	90.00	179.81	9783.00	-3.02	-461.00	10.00	-143.215	1.49	308H FTP
6	23565.34	90.00	179.81	9783.00	-13421.52	-417.38	0.00	0.000	13420.06	308H LTP
7	23615.33	90.00	179.81	9783.00	-13471.51	-417.22	0.00	0.000	13470.05	308H BHL

#### DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
308H SHL	0.00	0.00	0.00	401115.22	660565.61	32.1017204	-103.8148007
308H BHL	9783.00	-13471.51	-417.22	387643.71	660148.39	32.0646935	-103.8163565
308H FTP	9783.00	-3.02	-461.00	401112.20	660104.61	32.1017182	-103.8162895
308H LTP	9783.00	-13421.52	-417.52	387693.70	660148.09	32.0648309	-103.8163567

#### FORMATION TOP DETAILS

TVDPath	Formation
984.00	Rustler
1311.00	Top Salt
3972.00	Base Salt
4182.00	Delaware
5043.00	Cherry Canyon
6514.00	Brushy Canyon
7791.00	Basal Brushy Canyon
8008.00	Bone Spring Lime Fm
8130.00	Avalon Shale
8586.00	Avalon Lime
8774.00	1st Bone Spring Lime
8960.00	1st Bone Spring Ss
9429.00	2nd Bone Spring Lime
9683.00	2nd Bone Spring Ss
9783.00	Landing Point
9783 00	TD



<u>District 1</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>District II</u>
811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

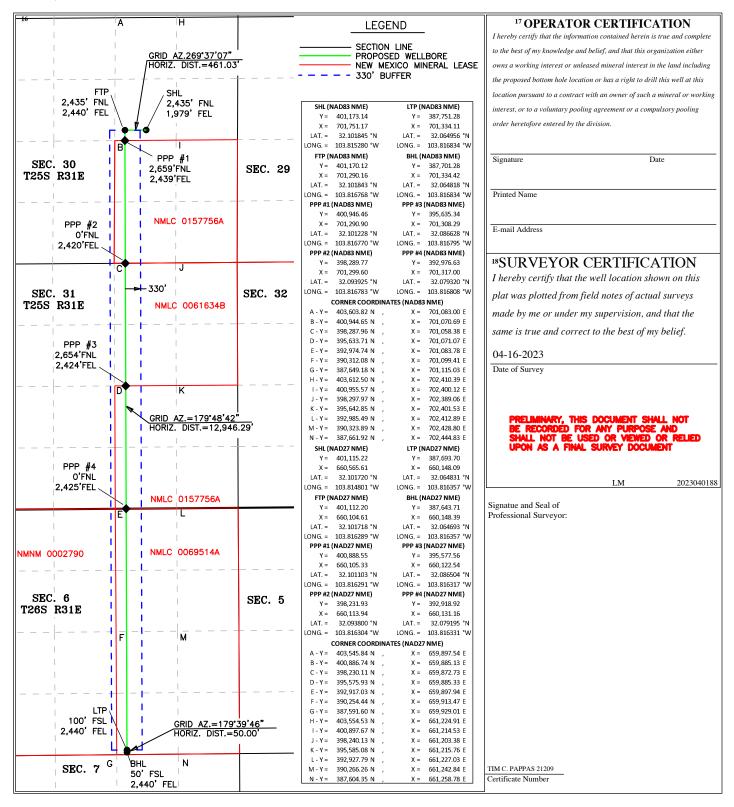
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

1 /	API Number 30-025	•		<sup>2</sup> Pool Code			<sup>3</sup> Pool Na	me		
<sup>4</sup> Property C	ode				<sup>5</sup> Property N	Name			6 7	Well Number
					308H					
7 OGRID N	lo.				<sup>8</sup> Operator N	Name				9 Elevation
373075	;			XTO PERMIAN OPERATING, LLC 3,366						3,366'
				<sup>10</sup> Surface Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County
G	30	25S	31E		2,435	NORTH	1,979	EAS	ST	EDDY
			11 Во	ttom Hol	e Location If	Different Fron	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County
О	6	26S	31E		50 SOUTH 2,440 EAST EDDY					EDDY
12 Dedicated Acres	13 Joint of	r Infill 14	Consolidation	Code 15 Or	der No.					

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





EDM 5000.1.13 Single User Db Database:

Company: XTO Energy

Project: EDDY COUNTY, NM (NAD-27) POKER LAKE UNIT 30 BS Site:

Well: 308H Wellbore: Wellbore #1 Design: **PERMIT** 

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 308H

RKB = 30' @ 3396.00usft (TBD)

RKB = 30' @ 3396.00usft (TBD)

179.81

Minimum Curvature

**Project** EDDY COUNTY, NM (NAD-27)

Map System: Geo Datum:

Map Zone:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum: Mean Sea Level

0.00

POKER LAKE UNIT 30 BS Site

Northing: 401,221.20 usft 32.1020486 Site Position: Latitude: From: Мар Easting: 657,754.30 usft Longitude: -103.8238776 **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.271

Well 308H

**Well Position** +N/-S -105.98 usft Northing: 401,115.22 usft Latitude: 32.1017204 +E/-W 2,811.31 usft Easting: 660,565.61 usft Longitude: -103.8148007 **Position Uncertainty** 0.00 usft Wellhead Elevation: 0.00 usft **Ground Level:** 3,366.00 usft

Wellbore Wellbore #1 Declination Field Strength Magnetics **Model Name** Sample Date **Dip Angle** (nT) (°) (°) 06/26/23 47.185 IGRF2020 6.410 59.685

Design **PERMIT** 

0.00

**Audit Notes:** 

Version: Phase: **PLAN** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.00

**Plan Sections** Measured Vertical Dogleg Build Turn Depth Depth +N/-S Inclination **Azimuth** +E/-W Rate Rate Rate **TFO** (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (°) (°) **Target** (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000 2,000.00 0.00 0.00 2,000.00 0.00 0.00 0.00 0.00 0.00 0.000 2,288.70 5.77 323.17 2.288.21 11.63 -8.71 2.00 2.00 0.00 323.168 568.19 0.00 9,200.47 5.77 323.17 9,164.92 -425.55 0.00 0.00 0.000 10,146.77 90.00 179.81 9.783.00 -3.02 -461.00 10.00 8.90 -15.15 -143.215 308H FTP 23,565.34 90.00 179.81 9,783.00 -13,421.52 -417.38 0.00 0.00 0.00 0.000 308H LTP 23,615.33 90.00 179.81 9,783.00 -13,471.51 -417.22 0.00 0.00 0.00 0.000 308H BHL



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

EDDY COUNTY, NM (NAD-27) Project: POKER LAKE UNIT 30 BS Site:

308H Well: Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 308H

RKB = 30' @ 3396.00usft (TBD) RKB = 30' @ 3396.00usft (TBD)

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
308H SHL 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	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
984.00	0.00	0.00	984.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,311.00 <b>Top Salt</b>	0.00	0.00	1,311.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	323.17	2,099.98	1.40	-1.05	-1.40	2.00	2.00	0.00
2,200.00	4.00	323.17	2,199.84	5.59	-4.18	-5.60	2.00	2.00	0.00
2,288.70	5.77	323.17	2,288.21	11.63	-8.71	-11.66	2.00	2.00	0.00
2,300.00	5.77	323.17	2,299.45	12.54	-9.39	-12.57	0.00	0.00	0.00
2,400.00	5.77	323.17	2,398.95	20.60	-15.43	-20.65	0.00	0.00	0.00
2,500.00	5.77	323.17	2,498.44	28.65	-21.46	-28.72	0.00	0.00	0.00
2,600.00	5.77	323.17	2,597.93	36.70	-27.49	-36.79	0.00	0.00	0.00
2,700.00	5.77	323.17	2,697.42	44.75	-33.52	-44.86	0.00	0.00	0.00
2,800.00	5.77	323.17	2,796.92	52.80	-39.55	-52.94	0.00	0.00	0.00
2,900.00	5.77	323.17	2,896.41	60.86	-45.58	-61.01	0.00	0.00	0.00
3,000.00	5.77	323.17	2,995.90	68.91	-51.61	-69.08	0.00	0.00	0.00
3,100.00	5.77	323.17	3,095.40	76.96	-57.64	-77.15	0.00	0.00	0.00
3,200.00	5.77	323.17	3,194.89	85.01	-63.67	-85.22	0.00	0.00	0.00
3,300.00	5.77	323.17	3,294.38	93.07	-69.70	-93.30	0.00	0.00	0.00
3,400.00	5.77	323.17	3,393.87	101.12	-75.73	-101.37	0.00	0.00	0.00
3,500.00	5.77	323.17	3,493.37	109.17	-81.77	-109.44	0.00	0.00	0.00
3,600.00	5.77	323.17	3,592.86	117.22	-87.80	-117.51	0.00	0.00	0.00
3,700.00	5.77	323.17	3,692.35	125.27	-93.83	-125.59	0.00	0.00	0.00
3,800.00	5.77	323.17	3,791.84	133.33	-99.86	-133.66	0.00	0.00	0.00
3,900.00	5.77	323.17	3,891.34	141.38	-105.89	-141.73	0.00	0.00	0.00
3,981.07	5.77	323.17	3,972.00	147.91	-110.78	-148.27	0.00	0.00	0.00
4,000.00	5.77	323.17	3,990.83	149.43	-111.92	-149.80	0.00	0.00	0.00
4,100.00 4,192.15 <b>Delaware</b>	5.77 5.77	323.17 323.17	4,090.32 4,182.00	157.48 164.90	-117.95 -123.51	-157.87 -165.31	0.00 0.00	0.00 0.00	0.00 0.00
4,200.00	5.77	323.17	4,189.81	165.54	-123.98	-165.95	0.00	0.00	0.00
4,300.00	5.77	323.17	4,289.31	173.59	-130.01	-174.02	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

EDDY COUNTY, NM (NAD-27) Project: POKER LAKE UNIT 30 BS Site:

Well: 308H Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 308H

RKB = 30' @ 3396.00usft (TBD) RKB = 30' @ 3396.00usft (TBD)

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	5.77	323.17	4,388.80	181.64	-136.04	-182.09	0.00	0.00	0.00
4,500.00	5.77	323.17	4,488.29	189.69	-142.07	-190.16	0.00	0.00	0.00
4,600.00	5.77	323.17	4,587.79	197.75	-148.10	-198.24	0.00	0.00	0.00
4,700.00	5.77	323.17	4,687.28	205.80	-154.14	-206.31	0.00	0.00	0.00
4,800.00	5.77	323.17	4,786.77	213.85	-160.17	-214.38	0.00	0.00	0.00
4,900.00	5.77	323.17	4,886.26	221.90	-166.20	-222.45	0.00	0.00	0.00
5,000.00	5.77	323.17	4,985.76	229.95	-172.23	-230.52	0.00	0.00	0.00
5,057.54	5.77	323.17	5,043.00	234.59	-175.70	-235.17	0.00	0.00	0.00
Cherry Ca			,						
5,100.00	5.77	323.17	5,085.25	238.01	-178.26	-238.60	0.00	0.00	0.00
5,200.00	5.77	323.17	5,184.74	246.06	-184.29	-246.67	0.00	0.00	0.00
5,300.00	5.77	323.17	5,284.23	254.11	-190.32	-254.74	0.00	0.00	0.00
5,400.00	5.77	323.17	5,383.73	262.16	-196.35	-262.81	0.00	0.00	0.00
5,500.00	5.77	323.17	5,483.22	270.22	-202.38	-270.88	0.00	0.00	0.00
5,600.00	5.77	323.17	5,582.71	278.27	-208.41	-278.96	0.00	0.00	0.00
5,700.00	5.77	323.17	5,682.20	286.32	-214.44	-287.03	0.00	0.00	0.00
5,800.00	5.77	323.17	5,781.70	294.37	-220.48	-295.10	0.00	0.00	0.00
5,900.00	5.77	323.17	5,881.19	302.42	-226.51	-303.17	0.00	0.00	0.00
6,000.00	5.77	323.17	5,980.68	310.48	-232.54	-311.25	0.00	0.00	0.00
6,100.00	5.77	323.17	6,080.18	318.53	-238.57	-319.32	0.00	0.00	0.00
6,200.00	5.77	323.17	6,179.67	326.58	-244.60	-327.39	0.00	0.00	0.00
6,300.00	5.77	323.17	6,279.16	334.63	-250.63	-335.46	0.00	0.00	0.00
6,400.00	5.77	323.17	6,378.65	342.69	-256.66	-343.53	0.00	0.00	0.00
6,500.00	5.77	323.17	6,478.15	350.74	-262.69	-351.61	0.00	0.00	0.00
6,536.04	5.77	323.17	6,514.00	353.64	-264.86	-354.52	0.00	0.00	0.00
Brushy Ca	anyon								
6,600.00	5.77	323.17	6,577.64	358.79	-268.72	-359.68	0.00	0.00	0.00
6,700.00	5.77	323.17	6,677.13	366.84	-274.75	-367.75	0.00	0.00	0.00
6,800.00	5.77	323.17	6,776.62	374.89	-280.78	-375.82	0.00	0.00	0.00
6,900.00	5.77	323.17	6,876.12	382.95	-286.81	-383.90	0.00	0.00	0.00
7,000.00	5.77	323.17	6,975.61	391.00	-292.85	-391.97	0.00	0.00	0.00
7,100.00	5.77	323.17	7,075.10	399.05	-298.88	-400.04	0.00	0.00	0.00
7,200.00	5.77	323.17	7,174.59	407.10	-304.91	-408.11	0.00	0.00	0.00
7,300.00	5.77	323.17	7,274.09	415.16	-310.94	-416.18	0.00	0.00	0.00
7,400.00	5.77	323.17	7,373.58	423.21	-316.97	-424.26	0.00	0.00	0.00
7,500.00	5.77	323.17	7,473.07	431.26	-323.00	-432.33	0.00	0.00	0.00
7,600.00	5.77	323.17	7,572.57	439.31	-329.03	-440.40	0.00	0.00	0.00
7,700.00	5.77	323.17	7,672.06	447.36	-335.06	-448.47	0.00	0.00	0.00
7,800.00	5.77	323.17	7,771.55	455.42	-341.09	-456.55	0.00	0.00	0.00
7,819.55	5.77	323.17	7,791.00	456.99	-342.27	-458.12	0.00	0.00	0.00
7,900.00	shy Canyon 5.77	323.17	7,871.04	463.47	-347.12	-464.62	0.00	0.00	0.00
8,000.00 8,037.66	5.77 5.77	323.17 323.17 323.17	7,970.54 8,008.00	471.52 474.55	-353.15 -355.43	-472.69 -475.73	0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Bone Spri	ng Lime Fm								
8,100.00	5.77	323.17	8,070.03	479.57	-359.19	-480.76	0.00	0.00	0.00
8,160.28	5.77	323.17	8,130.00	484.43	-362.82	-485.63	0.00	0.00	0.00
Avalon Sh		000 1=	0.400.50	40= 00	007.05	400.00		2.25	0.00
8,200.00	5.77	323.17	8,169.52	487.63	-365.22	-488.83	0.00	0.00	0.00
8,300.00	5.77	323.17	8,269.01	495.68	-371.25	-496.91	0.00	0.00	0.00
8,400.00	5.77	323.17	8,368.51	503.73	-377.28	-504.98	0.00	0.00	0.00
8,500.00	5.77	323.17	8,468.00	511.78	-383.31	-513.05	0.00	0.00	0.00
8,600.00	5.77	323.17	8,567.49	519.83	-389.34	-521.12	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

EDDY COUNTY, NM (NAD-27) Project: POKER LAKE UNIT 30 BS Site:

308H Well: Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 308H

RKB = 30' @ 3396.00usft (TBD)

RKB = 30' @ 3396.00usft (TBD)

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,618.60	5.77	323.17	8,586.00	521.33	-390.46	-522.62	0.00	0.00	0.00
Avalon Lir 8,700.00 8,800.00	ne 5.77 5.77	323.17 323.17	8,666.98 8,766.48	527.89 535.94	-395.37 -401.40	-529.20 -537.27	0.00 0.00	0.00 0.00	0.00 0.00
8,807.56	5.77	323.17	8,774.00	536.55	-401.86	-537.88	0.00	0.00	0.00
1st Bone \$ 8,900.00 8,994.51	<b>Spring Lime</b> 5.77 5.77	323.17 323.17	8,865.97 8,960.00	543.99 551.60	-407.43 -413.13	-545.34 -552.97	0.00 0.00	0.00 0.00	0.00 0.00
1st Bone S		202.47	0.005.40	550.04	440.40	EE0 44	0.00	0.00	0.00
9,000.00	5.77	323.17	8,965.46	552.04	-413.46	-553.41	0.00	0.00	0.00
9,100.00	5.77	323.17	9,064.96	560.10	-419.49	-561.48	0.00	0.00	0.00
9,200.47	5.77	323.17	9,164.92	568.19	-425.55	-569.59	0.00	0.00	0.00
9,250.00	3.47	264.47	9,214.31	570.04	-428.54	-571.46	10.00	-4.65	-118.52
9,300.00	6.34	212.70	9,264.14	567.57	-431.54	-568.99	10.00	5.75	-103.54
9,350.00	10.88	198.12	9,313.57	560.75	-434.50	-562.19	10.00	9.07	-29.17
9,400.00	15.70	192.21	9,362.22	549.65	-437.40	-551.10	10.00	9.64	-11.80
9,450.00	20.60	189.05	9,409.72	534.34	-440.22	-535.80	10.00	9.81	-6.32
9,470.75	22.65	188.13	9,429.00	526.78	-441.36	-528.24	10.00	9.87	-4.45
2nd Bone 9,500.00 9,550.00 9,600.00	25.54 30.50 35.47	187.07 185.69 184.67	9,455.70 9,499.83 9,541.76	514.95 491.61 464.51	-442.93 -445.52 -447.96	-516.41 -493.08 -465.99	10.00 10.00 10.00	9.89 9.92 9.94	-3.63 -2.75 -2.04
9,650.00	40.45	183.87	9,581.17	433.85	-450.24	-435.34	10.00	9.95	-1.60
9,700.00	45.43	183.22	9,617.76	399.86	-452.34	-401.36	10.00	9.96	-1.30
9,750.00	50.41	182.67	9,651.26	362.82	-454.24	-364.32	10.00	9.97	-1.10
9,800.00	55.39	182.20	9,681.41	322.98	-455.93	-324.49	10.00	9.97	-0.95
9,802.81	55.67	182.18	9,683.00	320.67	-456.02	-322.18	10.00	9.97	-0.89
2nd Bone	Spring Ss								
9,850.00	60.38	181.78	9,707.98	280.67	-457.39	-282.19	10.00	9.97	-0.84
9,900.00	65.37	181.40	9,730.77	236.20	-458.63	-237.72	10.00	9.98	-0.76
9,950.00	70.36	181.05	9,749.60	189.91	-459.61	-191.44	10.00	9.98	-0.70
10,000.00	75.35	180.72	9,764.34	142.15	-460.35	-143.68	10.00	9.98	-0.66
10,050.00	80.34	180.40	9,774.86	93.29	-460.82	-94.82	10.00	9.98	-0.63
10,100.00	85.33	180.10	9,781.10	43.70	-461.04	-45.23	10.00	9.98	-0.61
10,146.77	90.00	179.81	9,783.00	-3.02	-461.00	1.49	10.00	9.98	-0.60
	ing Point - 308								
10,200.00	90.00	179.81	9,783.00	-56.25	-460.83	54.72	0.00	0.00	0.00
10,300.00	90.00	179.81	9,783.00	-156.25	-460.50	154.72	0.00	0.00	0.00
10,400.00	90.00	179.81	9,783.00	-256.25	-460.18	254.72	0.00	0.00	0.00
10,500.00	90.00	179.81	9,783.00	-356.25	-459.85	354.72	0.00	0.00	0.00
10,600.00	90.00	179.81	9,783.00	-456.25	-459.53	454.72	0.00	0.00	0.00
10,700.00	90.00	179.81	9,783.00	-556.25	-459.20	554.72	0.00	0.00	0.00
10,800.00	90.00	179.81	9,783.00	-656.24	-458.88	654.72	0.00	0.00	0.00
10,900.00	90.00	179.81	9,783.00	-756.24	-458.55	754.72	0.00	0.00	0.00
11,000.00	90.00	179.81	9,783.00	-856.24	-458.23	854.72	0.00	0.00	0.00
11,100.00	90.00	179.81	9,783.00	-956.24	-457.90	954.72	0.00	0.00	0.00
11,200.00	90.00	179.81	9,783.00	-1,056.24	-457.58	1,054.72	0.00	0.00	0.00
11,300.00	90.00	179.81	9,783.00	-1,156.24	-457.25	1,154.72	0.00	0.00	0.00
11,400.00	90.00	179.81	9,783.00	-1,256.24	-456.93	1,254.72	0.00	0.00	0.00
11,500.00	90.00	179.81	9,783.00	-1,356.24	-456.60	1,354.72	0.00	0.00	0.00
11,600.00	90.00	179.81	9,783.00	-1,456.24	-456.28	1,454.72	0.00	0.00	0.00
11,700.00	90.00	179.81	9,783.00	-1,556.24	-455.95	1,554.72	0.00	0.00	0.00
11,800.00	90.00	179.81	9,783.00	-1,656.24	-455.63	1,654.72	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

EDDY COUNTY, NM (NAD-27) Project: POKER LAKE UNIT 30 BS Site:

Well: 308H Wellbore: Wellbore #1 PERMIT Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 308H

RKB = 30' @ 3396.00usft (TBD)

RKB = 30' @ 3396.00usft (TBD)

Design.	FLIXIVIII								
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)
11,900.00	90.00	179.81	9,783.00	-1,756.24	-455.30	1,754.72	0.00	0.00	0.00
12,000.00	90.00	179.81	9,783.00	-1,856.24	-454.98	1,854.72	0.00	0.00	0.00
12,100.00	90.00	179.81	9,783.00	-1,956.24	-454.65	1,954.72	0.00	0.00	0.00
12,200.00	90.00	179.81	9,783.00	-2,056.24	-454.33	2,054.72	0.00	0.00	0.00
12,300.00	90.00	179.81	9,783.00	-2,156.24	-454.00	2,154.72	0.00	0.00	0.00
12,400.00	90.00	179.81	9,783.00	-2,256.24	-453.68	2,254.72	0.00	0.00	0.00
12,500.00	90.00	179.81	9,783.00	-2,356.24	-453.35	2,354.72	0.00	0.00	0.00
12,600.00	90.00	179.81	9,783.00	-2,456.24	-453.03	2,454.72	0.00	0.00	0.00
12,700.00	90.00	179.81	9,783.00	-2,556.23	-452.70	2,554.72	0.00	0.00	0.00
12,800.00	90.00	179.81	9,783.00	-2,656.23	-452.38	2,654.72	0.00	0.00	0.00
12,900.00	90.00	179.81	9,783.00	-2,756.23	-452.05	2,754.72	0.00	0.00	0.00
13,000.00	90.00	179.81	9,783.00	-2,856.23	-451.73	2,854.72	0.00	0.00	0.00
13,100.00	90.00	179.81	9,783.00	-2,956.23	-451.40	2,954.72	0.00	0.00	0.00
13,200.00	90.00	179.81	9,783.00	-3,056.23	-451.08	3,054.72	0.00	0.00	0.00
13,300.00	90.00	179.81	9,783.00	-3,156.23	-450.75	3,154.72	0.00	0.00	0.00
13,400.00	90.00	179.81	9,783.00	-3,256.23	-450.43	3,254.72	0.00	0.00	0.00
13,500.00	90.00	179.81	9,783.00	-3,356.23	-450.10	3,354.72	0.00	0.00	0.00
13,600.00	90.00	179.81	9,783.00	-3,456.23	-449.78	3,454.72	0.00	0.00	0.00
13,700.00	90.00	179.81	9,783.00	-3,556.23	-449.45	3,554.72	0.00	0.00	0.00
13,800.00	90.00	179.81	9,783.00	-3,656.23	-449.13	3,654.72	0.00	0.00	0.00
13,900.00	90.00	179.81	9,783.00	-3,756.23	-448.80	3,754.72	0.00	0.00	0.00
14,000.00	90.00	179.81	9,783.00	-3,856.23	-448.47	3,854.72	0.00	0.00	0.00
14,100.00	90.00	179.81	9,783.00	-3,956.23	-448.15	3,954.72	0.00	0.00	0.00
14,200.00	90.00	179.81	9,783.00	-4,056.23	-447.82	4,054.72	0.00	0.00	0.00
14,300.00	90.00	179.81	9,783.00	-4,156.23	-447.50	4,154.72	0.00	0.00	0.00
14,400.00	90.00	179.81	9,783.00	-4,256.23	-447.17	4,254.72	0.00	0.00	0.00
14,500.00	90.00	179.81	9,783.00	-4,356.23	-446.85	4,354.72	0.00	0.00	0.00
14,600.00	90.00	179.81	9,783.00	-4,456.22	-446.52	4,454.72	0.00	0.00	0.00
14,700.00	90.00	179.81	9,783.00	-4,556.22	-446.20	4,554.72	0.00	0.00	0.00
14,800.00	90.00	179.81	9,783.00	-4,656.22	-445.87	4,654.72	0.00	0.00	0.00
14,900.00	90.00	179.81	9,783.00	-4,756.22	-445.55	4,754.72	0.00	0.00	0.00
15,000.00	90.00	179.81	9,783.00	-4,856.22	-445.22	4,854.72	0.00	0.00	0.00
15,100.00	90.00	179.81	9,783.00	-4,956.22	-444.90	4,954.72	0.00	0.00	0.00
15,200.00	90.00	179.81	9,783.00	-5,056.22	-444.57	5,054.72	0.00	0.00	0.00
15,300.00	90.00	179.81	9,783.00	-5,156.22	-444.25	5,154.72	0.00	0.00	0.00
15,400.00	90.00	179.81	9,783.00	-5,256.22	-443.92	5,254.72	0.00	0.00	0.00
15,500.00	90.00	179.81	9,783.00	-5,356.22	-443.60	5,354.72	0.00	0.00	0.00
15,600.00	90.00	179.81	9,783.00	-5,456.22	-443.27	5,454.72	0.00	0.00	0.00
15,700.00	90.00	179.81	9,783.00	-5,556.22	-442.95	5,554.72	0.00	0.00	0.00
15,800.00	90.00	179.81	9,783.00	-5,656.22	-442.62	5,654.72	0.00	0.00	0.00
15,900.00	90.00	179.81	9,783.00	-5,756.22	-442.30	5,754.72	0.00	0.00	0.00
16,000.00	90.00	179.81	9,783.00	-5,856.22	-441.97	5,854.72	0.00	0.00	0.00
16,100.00	90.00	179.81	9,783.00	-5,956.22	-441.65	5,954.72	0.00	0.00	0.00
16,200.00	90.00	179.81	9,783.00	-6,056.22	-441.32	6,054.72	0.00	0.00	0.00
16,300.00	90.00	179.81	9,783.00	-6,156.22	-441.00	6,154.72	0.00	0.00	0.00
16,400.00	90.00	179.81	9,783.00	-6,256.22	-440.67	6,254.72	0.00	0.00	0.00
16,500.00	90.00	179.81	9,783.00	-6,356.21	-440.35	6,354.72	0.00	0.00	0.00
16,600.00	90.00	179.81	9,783.00	-6,456.21	-440.02	6,454.72	0.00	0.00	0.00
16,700.00	90.00	179.81	9,783.00	-6,556.21	-439.70	6,554.72	0.00	0.00	0.00
16,800.00	90.00	179.81	9,783.00	-6,656.21	-439.37	6,654.72	0.00	0.00	0.00
16,900.00	90.00	179.81	9,783.00	-6,756.21	-439.05	6,754.72	0.00	0.00	0.00
17,000.00	90.00	179.81	9,783.00	-6,856.21	-438.72	6,854.72	0.00	0.00	0.00
17,100.00	90.00	179.81	9,783.00	-6,956.21	-438.40	6,954.72	0.00	0.00	0.00
17,200.00	90.00	179.81	9,783.00	-7,056.21	-438.07	7,054.72	0.00	0.00	0.00



EDM 5000.1.13 Single User Db Database: Company:

XTO Energy

EDDY COUNTY, NM (NAD-27) Project: POKER LAKE UNIT 30 BS Site:

308H Well: Wellbore: Wellbore #1 **PERMIT** Design:

Local Co-ordinate Reference:

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well 308H

RKB = 30' @ 3396.00usft (TBD)

RKB = 30' @ 3396.00usft (TBD)

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)
17,300.00	90.00	179.81	9,783.00	-7,156.21	-437.75	7,154.72	0.00	0.00	0.00
17,400.00	90.00	179.81	9,783.00	-7,256.21	-437.42	7,254.72	0.00	0.00	0.00
17,500.00	90.00	179.81	9,783.00	-7,356.21	-437.10	7,354.72	0.00	0.00	0.00
17,600.00	90.00	179.81	9,783.00	-7,456.21	-436.77	7,454.72	0.00	0.00	0.00
17,700.00	90.00	179.81	9,783.00	-7,556.21	-436.45	7,554.72	0.00	0.00	0.00
17,800.00	90.00	179.81	9,783.00	-7,656.21	-436.12	7,654.72	0.00	0.00	0.00
17,900.00	90.00	179.81	9,783.00	-7,756.21	-435.80	7,754.72	0.00	0.00	0.00
18,000.00	90.00	179.81	9,783.00	-7,856.21	-435.47	7,854.72	0.00	0.00	0.00
18,100.00	90.00	179.81	9,783.00	-7,956.21	-435.15	7,954.72	0.00	0.00	0.00
18,200.00	90.00	179.81	9,783.00	-8,056.21	-434.82	8,054.72	0.00	0.00	0.00
18,300.00	90.00	179.81	9,783.00	-8,156.21	-434.50	8,154.72	0.00	0.00	0.00
18,400.00	90.00	179.81	9,783.00	-8,256.20	-434.17	8,254.72	0.00	0.00	0.00
18,500.00	90.00	179.81	9,783.00	-8,356.20	-433.85	8,354.72	0.00	0.00	0.00
18,600.00	90.00	179.81	9,783.00	-8,456.20	-433.52	8,454.72	0.00	0.00	0.00
18,700.00	90.00	179.81	9,783.00	-8,556.20	-433.20	8,554.72	0.00	0.00	0.00
18,800.00	90.00	179.81	9,783.00	-8,656.20	-432.87	8,654.72	0.00	0.00	0.00
18,900.00	90.00	179.81	9,783.00	-8,756.20	-432.55	8,754.72	0.00	0.00	0.00
19,000.00	90.00	179.81	9,783.00	-8,856.20	-432.22	8,854.72	0.00	0.00	0.00
19,100.00	90.00	179.81	9,783.00	-8,956.20	-431.90	8,954.72	0.00	0.00	0.00
19,200.00	90.00	179.81	9,783.00	-9,056.20	-431.57	9,054.72	0.00	0.00	0.00
19,300.00	90.00	179.81	9,783.00	-9,156.20	-431.25	9,154.72	0.00	0.00	0.00
19,400.00	90.00	179.81	9,783.00	-9,256.20	-430.92	9,254.72	0.00	0.00	0.00
19,500.00	90.00	179.81	9,783.00	-9,356.20	-430.60	9,354.72	0.00	0.00	0.00
19,600.00	90.00	179.81	9,783.00	-9,456.20	-430.27	9,454.72	0.00	0.00	0.00
19,700.00	90.00	179.81	9,783.00	-9,556.20	-429.95	9,554.72	0.00	0.00	0.00
19,800.00	90.00	179.81	9,783.00	-9,656.20	-429.62	9,654.72	0.00	0.00	0.00
19,900.00	90.00	179.81	9,783.00	-9,756.20	-429.30	9,754.72	0.00	0.00	0.00
20,000.00	90.00	179.81	9,783.00	-9,856.20	-428.97	9,854.72	0.00	0.00	0.00
20,100.00	90.00	179.81	9,783.00	-9,956.20	-428.65	9,954.72	0.00	0.00	0.00
20,200.00	90.00	179.81	9,783.00	-10,056.20	-428.32	10,054.72	0.00	0.00	0.00
20,300.00	90.00	179.81	9,783.00	-10,156.19	-428.00	10,154.72	0.00	0.00	0.00
20,400.00	90.00	179.81	9,783.00	-10,256.19	-427.67	10,254.72	0.00	0.00	0.00
20,500.00	90.00	179.81	9,783.00	-10,356.19	-427.35	10,354.72	0.00	0.00	0.00
20,600.00	90.00	179.81	9,783.00	-10,456.19	-427.02	10,454.72	0.00	0.00	0.00
20,700.00	90.00	179.81	9,783.00	-10,556.19	-426.70	10,554.72	0.00	0.00	0.00
20,800.00	90.00	179.81	9,783.00	-10,656.19	-426.37	10,654.72	0.00	0.00	0.00
20,900.00	90.00	179.81	9,783.00	-10,756.19	-426.05	10,754.72	0.00	0.00	0.00
21,000.00	90.00	179.81	9,783.00	-10,856.19	-425.72	10,854.72	0.00	0.00	0.00
21,100.00	90.00	179.81	9,783.00	-10,956.19	-425.40	10,954.72	0.00	0.00	0.00
21,200.00	90.00	179.81	9,783.00	-11,056.19	-425.07	11,054.72	0.00	0.00	0.00
21,300.00	90.00	179.81	9,783.00	-11,156.19	-424.75	11,154.72	0.00	0.00	0.00
21,400.00	90.00	179.81	9,783.00	-11,256.19	-424.42	11,254.72	0.00	0.00	0.00
21,500.00	90.00	179.81	9,783.00	-11,356.19	-424.10	11,354.72	0.00	0.00	0.00
21,600.00	90.00	179.81	9,783.00	-11,456.19	-423.77	11,454.72	0.00	0.00	0.00
21,700.00	90.00	179.81	9,783.00	-11,556.19	-423.45	11,554.72	0.00	0.00	0.00
21,800.00	90.00	179.81	9,783.00	-11,656.19	-423.12	11,654.72	0.00	0.00	0.00
21,900.00	90.00	179.81	9,783.00	-11,756.19	-422.80	11,754.72	0.00	0.00	0.00
22,000.00	90.00	179.81	9,783.00	-11,856.19	-422.47	11,854.72	0.00	0.00	0.00
22,100.00	90.00	179.81	9,783.00	-11,956.19	-422.15	11,954.72	0.00	0.00	0.00
22,200.00	90.00	179.81	9,783.00	-12,056.18	-421.82	12,054.72	0.00	0.00	0.00
22,300.00	90.00	179.81	9,783.00	-12,156.18	-421.50	12,154.72	0.00	0.00	0.00
22,400.00	90.00	179.81	9,783.00	-12,256.18	-421.17	12,254.72	0.00	0.00	0.00
22,500.00	90.00	179.81	9,783.00	-12,356.18	-420.85	12,354.72	0.00	0.00	0.00
22,600.00	90.00	179.81	9,783.00	-12,456.18	-420.52	12,454.72	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: EDDY COUNTY, NM (NAD-27)
Site: POKER LAKE UNIT 30 BS

Well: 308H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 308H

RKB = 30' @ 3396.00usft (TBD)

RKB = 30' @ 3396.00usft (TBD)

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)
22,700.00 22,800.00 22,900.00	90.00 90.00 90.00	179.81 179.81 179.81	9,783.00 9,783.00 9,783.00	-12,556.18 -12,656.18 -12,756.18	-420.20 -419.87 -419.55	12,554.72 12,654.72 12,754.72	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
23,000.00 23,100.00 23,200.00 23,300.00	90.00 90.00 90.00 90.00	179.81 179.81 179.81 179.81	9,783.00 9,783.00 9,783.00 9,783.00	-12,856.18 -12,956.18 -13,056.18 -13,156.18	-419.22 -418.90 -418.57 -418.25	12,854.72 12,954.72 13,054.72 13,154.72	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
23,400.00 23,500.00 23,565.34 <b>308H LTP</b>	90.00 90.00 90.00	179.81 179.81 179.81	9,783.00 9,783.00 9,783.00	-13,256.18 -13,356.18 -13,421.52	-417.92 -417.59 -417.38	13,254.72 13,354.72 13,420.06	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
23,600.00 23,615.33 <b>308H BHL</b>	90.00 90.00	179.81 179.81	9,783.00 9,783.00	-13,456.18 -13,471.51	-417.27 -417.22	13,454.72 13,470.05	0.00 0.00	0.00 0.00	0.00 0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
308H SHL - plan hits target co - Point	0.00 enter	0.00	0.00	0.00	0.00	401,115.22	660,565.61	32.1017204	-103.8148007
308H BHL - plan hits target co - Point	0.00 enter	0.00	9,783.00	-13,471.51	-417.22	387,643.71	660,148.39	32.0646935	-103.8163565
308H LTP - plan misses targe - Point	0.00 et center by (		-,	-13,421.52 ısft MD (9783	-417.52 .00 TVD, -13	387,693.70 3421.52 N, -417.3	660,148.09 88 E)	32.0648309	-103.8163567
308H FTP - plan hits target ce - Point	0.00 enter	0.00	9,783.00	-3.02	-461.00	401,112.20	660,104.61	32.1017182	-103.8162894



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: EDDY COUNTY, NM (NAD-27)
Site: POKER LAKE UNIT 30 BS

Well: 308H
Wellbore: Wellbore #1
Design: PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well 308H

RKB = 30' @ 3396.00usft (TBD) RKB = 30' @ 3396.00usft (TBD)

Grid

_						
ľ	Measured	Vertical				Dip
	Depth (usft)	Depth (usft)	<u>.</u> .		Dip	Direction (°)
	, ,		Name	Lithology	(°)	( )
	984.00	984.00	Rustler			
	1,311.00	1,311.00	Top Salt			
	3,981.07	3,972.00	Base Salt			
	4,192.15	4,182.00	Delaware			
	5,057.54	5,043.00	Cherry Canyon			
	6,536.04	6,514.00	Brushy Canyon			
	7,819.55	7,791.00	Basal Brushy Canyon			
	8,037.66	8,008.00	Bone Spring Lime Fm			
	8,160.28	8,130.00	Avalon Shale			
	8,618.60	8,586.00	Avalon Lime			
	8,807.56	8,774.00	1st Bone Spring Lime			
	8,994.51	8,960.00	1st Bone Spring Ss			
	9,470.75	9,429.00	2nd Bone Spring Lime			
	9,802.81	9,683.00	2nd Bone Spring Ss			
	10,146.77	9,783.00	TD			
	10,146.77	9,783.00	Landing Point			

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** XTO

LEASE NO.: NMLC061634B

**LOCATION:** Sec. 30, T.25 S, R 31 E

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Poke Lake Unit 30 BS 208H

**SURFACE HOLE FOOTAGE:** 2435'/N & 1980'/W **BOTTOM HOLE FOOTAGE:** 50'/S & 1650/W

WELL NAME & NO.: Poke Lake Unit 30 BS 210H

**SURFACE HOLE FOOTAGE:** 2435'/N & 2040'/W **BOTTOM HOLE FOOTAGE:** 50'/S & 2530'/W

WELL NAME & NO.: Poke Lake Unit 30 BS 308H

**SURFACE HOLE FOOTAGE:** 2435'/N & 1979'/E **BOTTOM HOLE FOOTAGE:** 50'/S & 2440'/E

WELL NAME & NO.: Poke Lake Unit 30 BS 309H

**SURFACE HOLE FOOTAGE:** 2435'/N & 1949'/E **BOTTOM HOLE FOOTAGE:** 50'/S & 2090'/E

WELL NAME & NO.: Poke Lake Unit 30 BS 310H

**SURFACE HOLE FOOTAGE:** 2435'/N & 1919'/E **BOTTOM HOLE FOOTAGE:** 50'/S & 1650'/E

WELL NAME & NO.: Poke Lake Unit 30 BS 409H

**SURFACE HOLE FOOTAGE:** 2435'/N & 629'/E **BOTTOM HOLE FOOTAGE:** 50'/S & 770'/E

**WELL NAME & NO.:** Poke Lake Unit 30 BS 410H

**SURFACE HOLE FOOTAGE:** 2435'/N & 599'/E **BOTTOM HOLE FOOTAGE:** 50'/S & 330'/E

COA

$H_2S$	•	No	© Yes		
Potash /	None	Secretary	© R-111-Q	☐ Open Annulus	
WIPP	Choose	e an option (including bla	nk option.)	$\square$ WIPP	
Cave / Karst	C Low	• Medium	C High	Critical	
Wellhead	Conventional	<ul><li>Multibowl</li></ul>	O Both	O Diverter	
Cementing	Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	□ DV Tool	
Special Req	☐ Capitan Reef	☐ Water Disposal	$\square$ COM	Unit	
Waste Prev.	C Self-Certification	C Waste Min. Plan	APD Submitted p	prior to 06/10/2024	
Additional	Flex Hose	☐ Casing Clearance	☐ Pilot Hole	Break Testing	
Language	☐ Four-String	Offline Cementing	☐ Fluid-Filled		

#### A. HYDROGEN SULFIDE

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

#### **B. CASING**

- 1. The 9-5/8 inch surface casing shall be set at approximately 1084 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 **8 hours** or **500 pounds compressive strength**, 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 ~ 6508'-6538.'
  - 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.

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

- ❖ In Medium Cave/Karst Areas 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 Intermediate 1 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Choose an item. casing to tieback requirements listed above after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.
- ❖ If cement does not reach surface, the next casing string must come to surface.
- 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)

#### **Unit Wells**

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

#### **Commercial Well Determination**

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

#### **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.

#### **GENERAL REQUIREMENTS**

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

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

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

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

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

#### A. CASING

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

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

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

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

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

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

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

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

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

**Approved by Zota Stevens on 7/10/2024** 575-234-5998 / zstevens@blm.gov



### HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

#### Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

#### Emergency Procedures

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

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

#### Ignition of Gas source

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

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

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.18 <b>9</b> Air = I	10 ppm	<b>100 ppm/</b> hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = I	2 ppm	N/A	1000 ppm

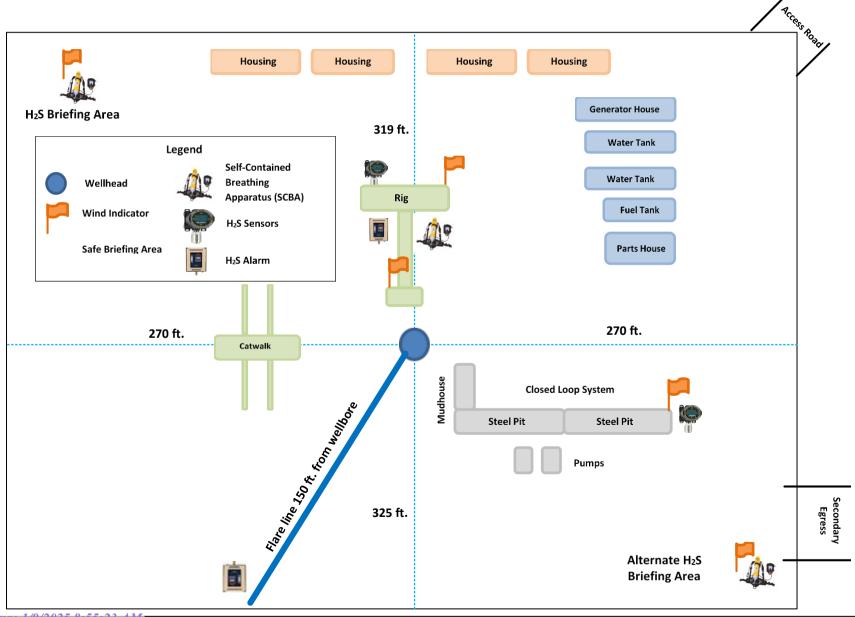
#### Contacting Authorities

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

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

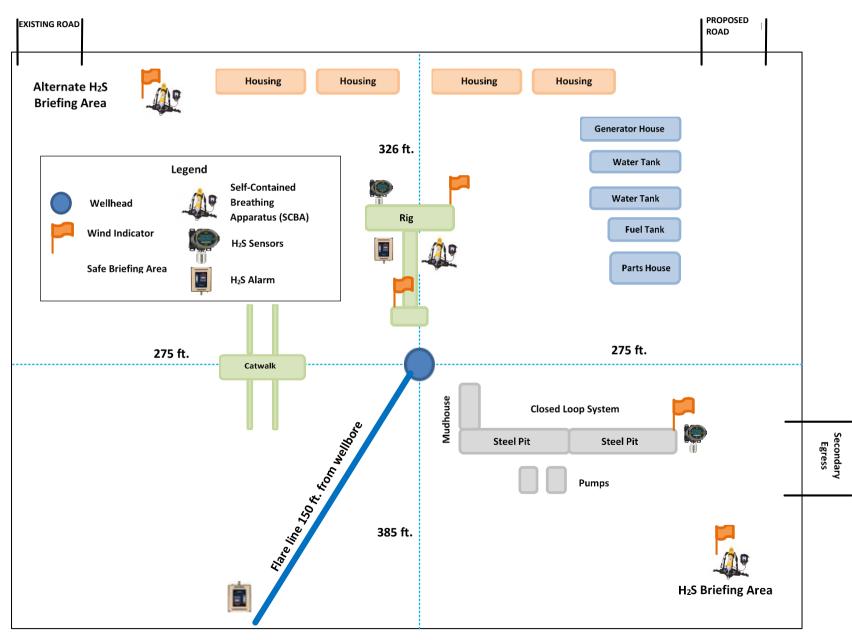
3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329		
XTO PERSONNEL: Christopher Cha, Drilling Manager Matt Water, Drilling Superintendent Robert Bartels, Construction Foreman Andy Owens, EH & S Manager Mike Allen, Production Foreman	432-701-1730 432-967-8203 406-478-3617 903-245-2602 918-421-9056		
SHERIFF DEPARTMENTS:			
Eddy County	575-887-7551		
Lea County	575-396-3611		
NEW MEXICO STATE POLICE:	575-392-5588		
FIRE DEPARTMENTS:	911		
Carlsbad	575-885-2111		
Eunice	575-394-2111		
Hobbs	575-397-9308		
Jal	575-395-2221		
Lovington	575-396-2359		
HOSPITALS:	911		
Carlsbad Medical Emergency	575-885-2111		
Eunice Medical Emergency	575-394-2112		
Hobbs Medical Emergency	575-397-9308		
Jal Medical Emergency	575-395-2221		
Lovington Medical Emergency	575-396-2359		
AGENT NOTIFICATIONS: For Lea County:			
Bureau of Land Management – Hobbs	575-393-3612		
New Mexico Oil Conservation Division – Hobbs	505-629-6116		
For Eddy County:			
Bureau of Land Management - Carlsbad	575-234-5972		
New Mexico Oil Conservation Division - Artesia	505-629-6116		



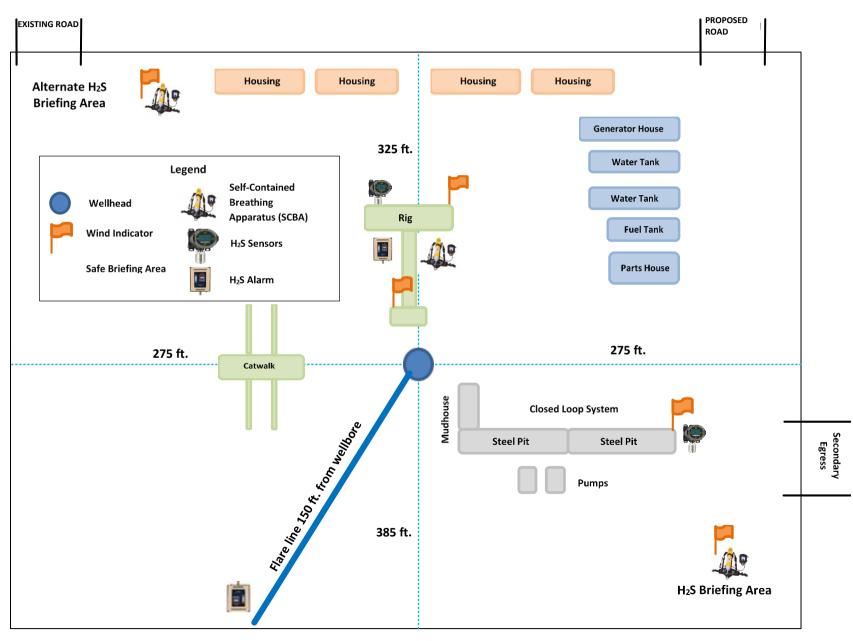


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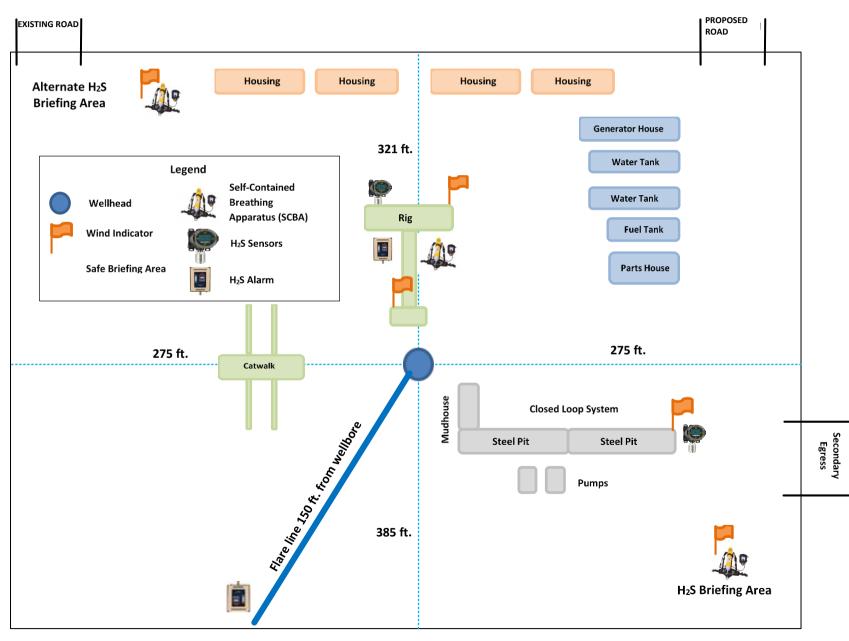












Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Safe containment attachment:

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

**FACILITY** 

Disposal type description:

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

#### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

#### **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.) Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

#### **Section 8 - Ancillary**

Are you requesting any Ancillary Facilities?: N

**Ancillary Facilities** 

Comments:

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

#### **Section 9 - Well Site**

#### **Well Site Layout Diagram:**

PLU\_30\_BS\_308H\_Well\_20230927123203.pdf PLU\_30\_BS\_308H\_RL\_20240606062901.pdf

Comments: Multi-well pad.

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

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: PLU 30 BS

Multiple Well Pad Number: C

#### Recontouring

PLU\_30\_BS\_IR3\_20240606080334.pdf PLU 30 BS IR2 20240606080335.pdf PLU\_30\_BS\_IR4\_20240606080420.pdf PLU\_30\_BS\_IR1\_20240607114632.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): 11.37

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres): 0 Other interim reclamation (acres): 0

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

1.62

Road interim reclamation (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

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

(acres): 0 Other long term disturbance (acres): 0

Road long term disturbance (acres):

(acres): 9.75

(acres): 0

3.85

**Total proposed disturbance:** Total interim reclamation: 1.62

Total long term disturbance: 13.6

#### **Disturbance Comments:**

15.21999999999999

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

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

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

**Existing Vegetation at the well pad:** Soils are classified 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:

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Seed

**Seed Table** 

**Seed Summary** 

Total pounds/Acre:

**Seed Type** 

Pounds/Acre

Seed reclamation

#### **Operator Contact/Responsible Official**

First Name: Robert Last Name: Bartels

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

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

**Seed BMP:** If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites

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

Existing invasive species? N

#### Existing invasive species treatment description:

#### **Existing invasive species treatment**

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

Weed treatment plan

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

Monitoring plan

Success standards: 100% compliance with applicable regulations.

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

Pit closure attachment:

#### **Section 11 - Surface Ownership**

Operator Name: XTO PERMIAN OPERATING LLC	

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

Other Local Office:

**USFS** Region:

USFS Forest/Grassland:

**USFS Ranger District:** 

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

**Other Local Office:** 

**USFS** Region:

**USFS** Forest/Grassland:

**USFS Ranger District:** 

Operator Name: XTO PERMIAN OPERATING LLC Well Name: POKER LAKE UNIT 30 BS Well Number: 308H Disturbance type: NEW ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office:** State Local Office: **Military Local Office: USFWS Local Office:** Other Local Office: **USFS** Region: **USFS** Forest/Grassland: **USFS Ranger District:** Disturbance type: TRANSMISSION LINE Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office:** 

**USFS Ranger District:** 

Page 12 of 14

**Other Local Office:** 

**USFS** Forest/Grassland:

**USFS** Region:

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Disturbance type: OTHER

Describe: Flowline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

DOD Local Office:

**NPS Local Office:** 

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

Other Local Office:

**USFS** Region:

**USFS Forest/Grassland:** 

**USFS Ranger District:** 

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

NPS Local Office:

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

Other Local Office:

**USFS** Region:

**USFS** Forest/Grassland:

**USFS Ranger District:** 

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Section 12 - Other

Right of Way needed? Y

Use APD as ROW? Y

**ROW Type(s):** 281001 ROW - ROADS,285003 ROW - POWER TRANS,288100 ROW - O&G Pipeline,289001 ROW- O&G Well Pad

**ROW** 

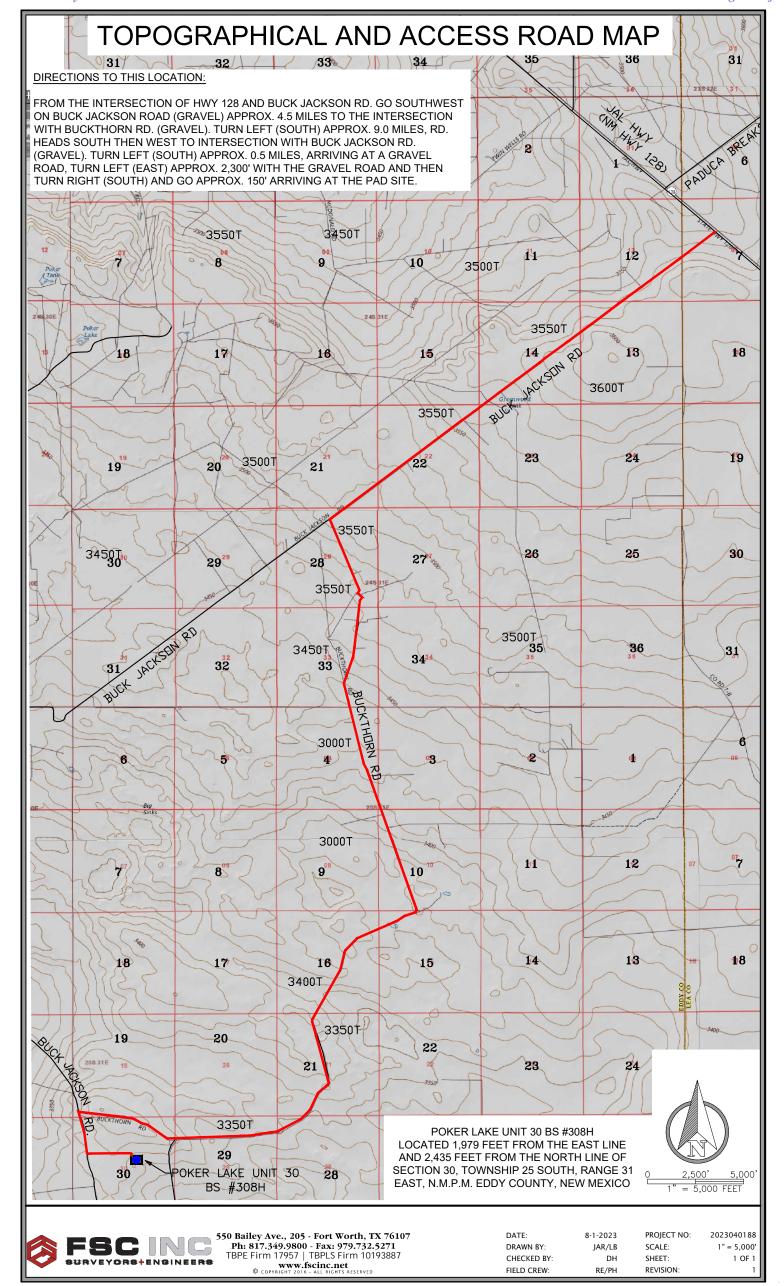
SUPO Additional Information: SUPO written for all wells in section/project area.

Use a previously conducted onsite? Y

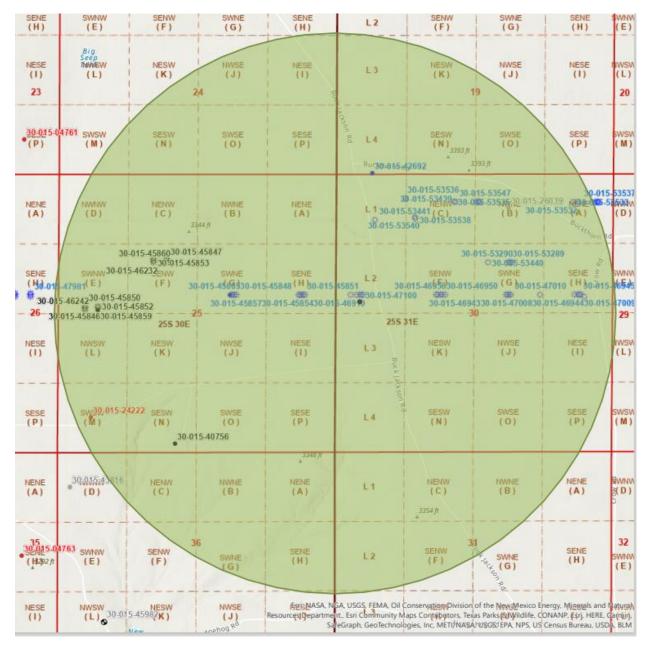
Previous Onsite information: June 9, 2022 with Zane Kirsch/Ben Kartchner were the BLM Natural Resource Specialist.

**Other SUPO** 

POKE\_LAKE\_UNIT\_30\_BS\_WELL\_LIST\_20230926142733.pdf PLU\_30\_BS\_SUPO\_20240607125058.pdf



# 1 Mile Radius Map



N

Poker Lake Unit 30 BS

			<u> </u>	1							I		
22	23	24	19	20	VI	CINI	TY N	ЛАР	19	20	21	22	23
27	26	25	30	29	28	34 4 27 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	RED ROAD	25	30	29 32 PAS	28 BREA	27	26
34	<sup>35</sup> T23	36 <b>R30E</b>	31/ T23/ R3	32 1 <b>E</b>	33	34	<b>\</b>	<sup>36</sup> 3 R31E	31 <b>T23</b> R	32 PA)	33	34	35
3	<b>T24</b>	R30E	T24 R3	1 <b>E</b> 5	4	3	<b>T24</b>	R31E	T24 K	5	4	3	2
10	11	12	7	8	9	10	11	12	They by	120,	9	10	11
15	14	13	18	17	16	15	11 JA JA	A SUL 13	18	17	16	15	14
22	23 TWIN	ELLS 24	19	20	21	22	53 Byr,	24	19	20	21	22	23
27	26	25	30	29	28	27	26	25	30	29	28	27	26
34	35 T24\ H	36 <b>R30E</b>	3x T24	32 <b>R31E</b>	33	34	35 <b>T24</b>	36 R31E	<sup>31</sup> T24 R:	32 <b>32E</b>	33	34	35
3		R30E	T25 R3	31 <b>E</b> 5	4	3 THURN R	<b>T25</b>	R31E	T25 R	32E 5	4	□RLA	2
10	11	12	7	8	9	DRV 10	11	12	7	8	9	RD 10	11
15 RUCK 22	2D 14	13	18	17	16	15	14	13	18	17	16	15	14
	23	BUCK JACK	19	20	21	22	23	24	19	20	21	22	23
HE DGI	FHDG RD	24 CK STM 25	30	29 POk	28 (ER LAKE	27 UNIT 30	26 D	25	30	29 COYCE LN	28 I	27	26
34	35	36 R30E	T25 R	RD ▼ 32	BS #3	08H 34	35	36 <b>R31E</b>	T25 <sup>31</sup> R:	32E <sup>32</sup>	33	34	35
3	<b>T26</b>		T26 R	X1	4	3	T26	R31E	T26 R		4	3	2

POKER LAKE UNIT 30 BS #308H LOCATED 1,979 FEET FROM THE EAST LINE AND 2,435 FEET FROM THE NORTH LINE OF SECTION 30, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



SURVEYORS+ENGINEERS FIELD CREW:

550 Bailey Ave., 205 - Fort Worth, TX 76107 PROJECT NO: Ph: 817.349,9800 - Fax: 979.732.5271 TBPE Firm 17957 | TBPLS Firm 10193887 www.fscinc.net

DATE: DRAWN BY: CHECKED BY: 2023040188 SCALE: SHEET:

8-1-2023

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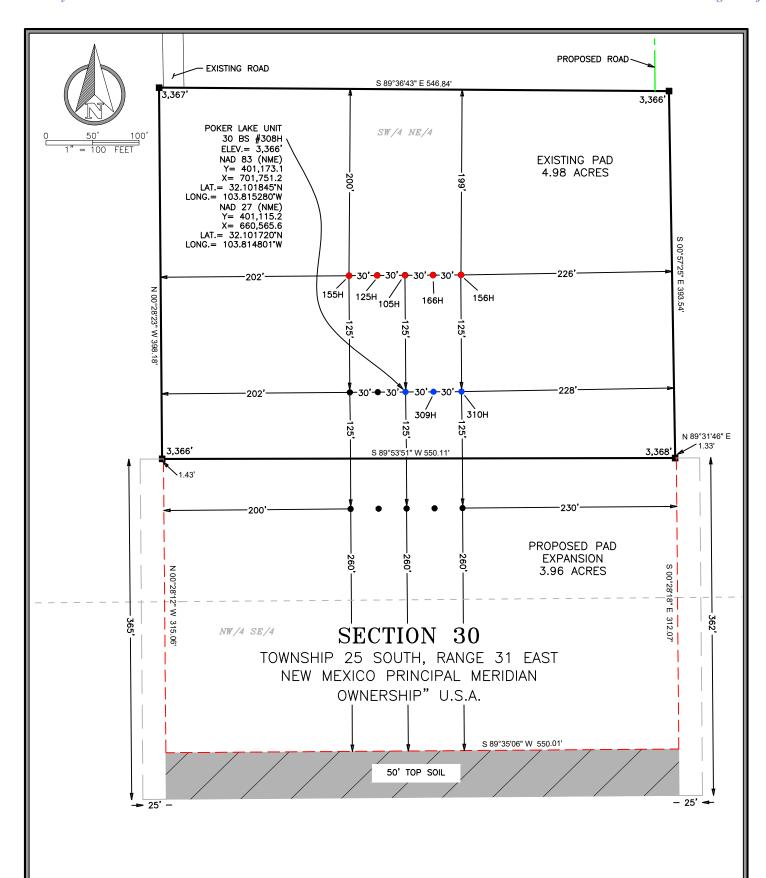
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1"= 10,000' REVISION:

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I, TIM C. PAPPAS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21209, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

1 Aug 2023

TIM C. PAPPAS REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 21209

1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR EXISTING ROAD LOCATION

#### DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HWY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON ROAD (GRAVEL) APPROX. 4.5 MILES TO THE INTERSECTION WITH BUCKTHORN RD. (GRAVEL). TURN LEFT (SOUTH) APPROX. 9.0 MILES, RD. HEADS SOUTH THEN WEST TO INTERSECTION WITH BUCK JACKSON RD. (GRAVEL). TURN LEFT (SOUTH) APPROX. 0.5 MILES, ARRIVING AT A GRAVEL ROAD, TURN LEFT (EAST) APPROX. 2,300' WITH THE GRAVEL ROAD AND THEN TURN RIGHT (SOUTH) AND GO APPROX. 150' ARRIVING AT THE PAD SITE.



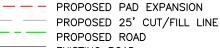
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## **LEGEND**



EXISTING ROAD

DRILLED SURFACE HOLE LOCATION PERMITTED SURFACE HOLE LOCATION TBD SURFACE HOLE LOCATION

XTO PERMIAN OPERATING, LLC.

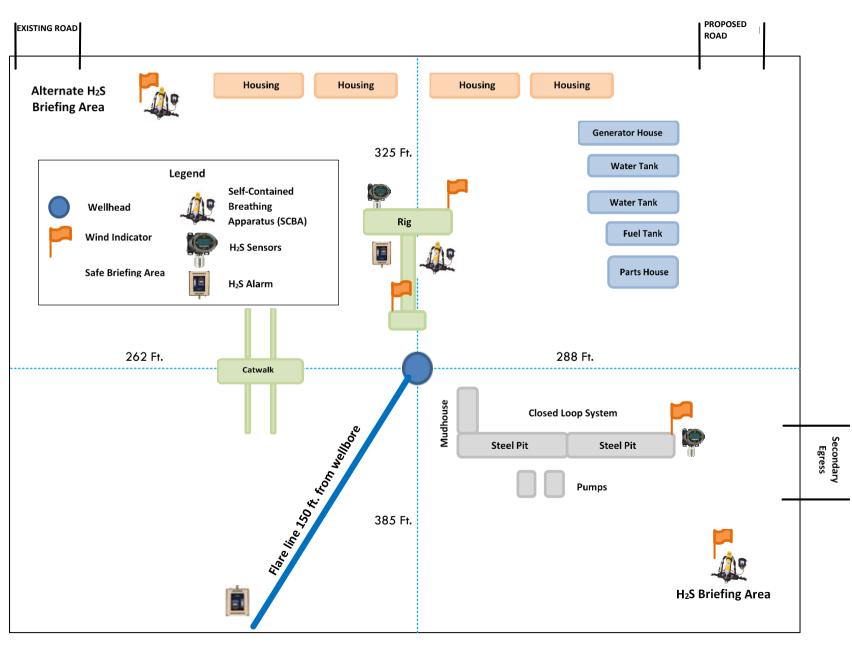
## WELL SITE PLAN PAD C

POKER LAKE UNIT 30 BS #308H LOCATED 1,979 FEET FROM THE EAST LINE AND 2,435 FEET FROM THE NORTH LINE OF SECTION 30, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

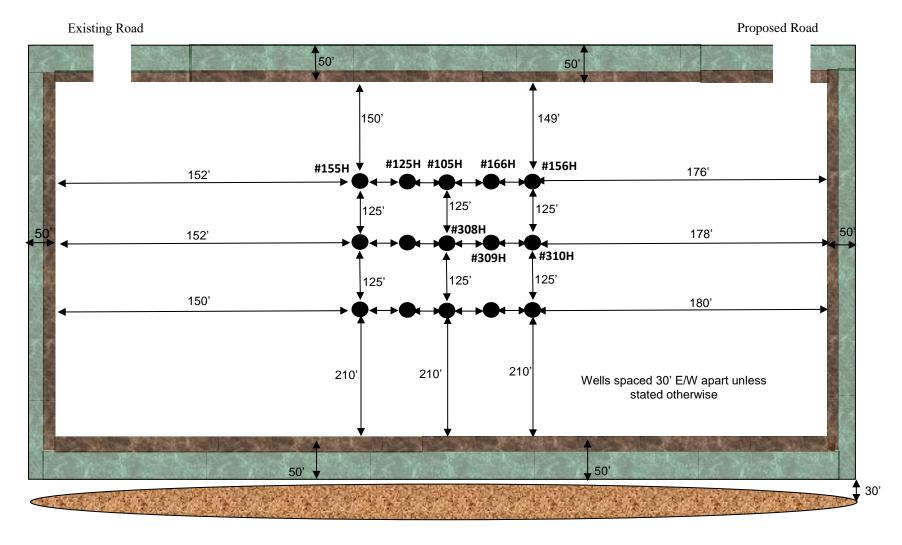
DATE:	8-1-2023	PROJECT NO:	2023040188
DRAWN BY:	AI/LB/CF	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RF	REVISION:	1



# **Rig Plat Layout**



Poker Lake Unit 30 BS: 155H, 125H, 105H, 166H, 156H, 308H, 309H, 310H All Wells Without Numbers are 'TBD' Allocations for Future Development



# **LEGEND**





Wellbore

Interim Reclamation

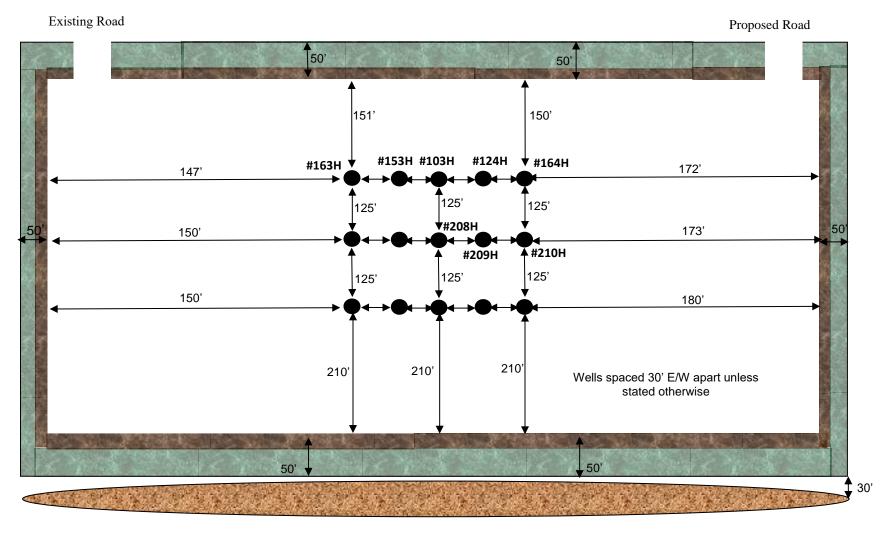


Ditch & Berm



Topsoil

Poker Lake Unit 30 BS: 163H, 153H, 103H, 124H, 164H, 208H, 209H, 210H All Wells Without Numbers are 'TBD' Allocations for Future Development



# **LEGEND**





Wellbore

Interim Reclamation

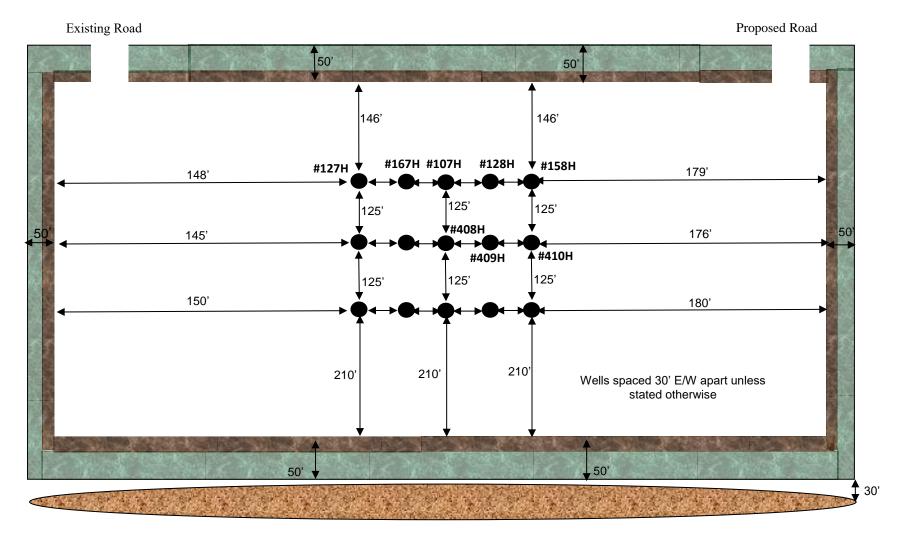


Ditch & Berm



Topsoil

Poker Lake Unit 30 BS: 127H, 167H, 107H, 128H, 158H, 408H, 409H, 410H All Wells Without Numbers are 'TBD' Allocations for Future Development



# **LEGEND**





Wellbore

Interim Reclamation

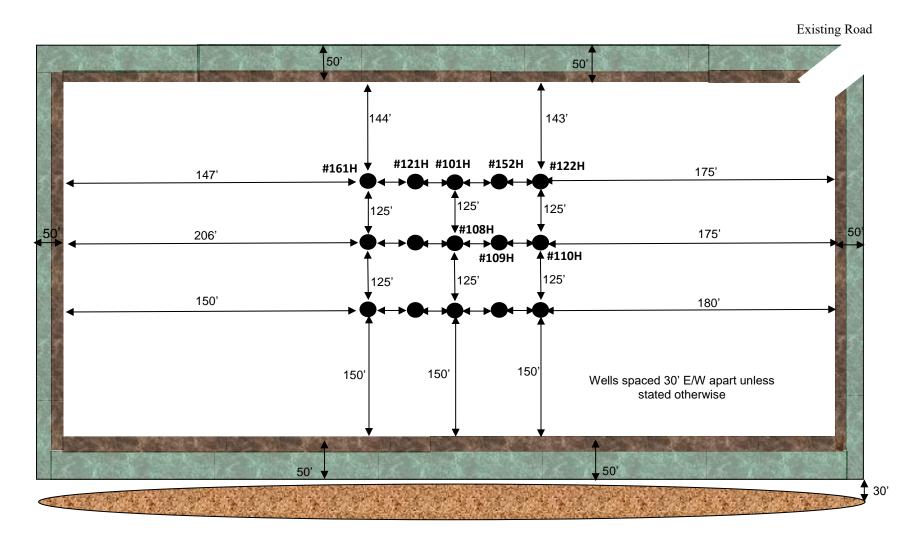


Ditch & Berm



Topsoil

Poker Lake Unit 30 BS: 161H, 121H, 101H, 152H, 122H, 108H, 109H, 110H All Wells Without Numbers are 'TBD' Allocations for Future Development



# **LEGEND**





Wellbore

Interim Reclamation



Ditch & Berm



Topsoil

#### **Permitted APDs**

POKER LAKE UNIT 30 BS #108H: PAD A - B3

**Surface Hole Location:** 455' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 330' FWL & 50' FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #109H: PAD A - B4

**Surface Hole Location:** 485' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 770' FWL & 50' FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #110H: PAD A - B5

Surface Hole Location: 515' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E. Bottom Hole Location: 1210' FWL & 50' FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #208H: PAD B - B3

**Surface Hole Location:** 1980' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 1650' FWL & 50' FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #209H: PAD B - B4

**Surface Hole Location:** 2010' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 2090' FWL & 50' FSL, Section 6, T. 26 S. R. 31 E.

**POKER LAKE UNIT 30 BS #210H:** PAD B - B5

**Surface Hole Location:** 2040' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 2530' FWL & 50' FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #308H: PAD C - B3

**Surface Hole Location:** 1979' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 2440' FEL & 50' FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #309H: PAD C - B4

**Surface Hole Location:** 1949' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 2090' FEL & 50' FSL, Section 6, T. 26 S. R. 31 E.

**POKER LAKE UNIT 30 BS #310H:** PAD C – B5

**Surface Hole Location:** 1919' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 1650' FEL & 50' FSL, Section 6, T. 26 S. R. 31 E.

**POKER LAKE UNIT 30 BS #408H:** PAD D – B3

**Surface Hole Location:** 659' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 1210' FEL & 50' FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #409H: PAD D - B4

**Surface Hole Location:** 629' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 770' FEL & 50' FSL, Section 6, T. 26 S. R. 31 E.

POKER LAKE UNIT 30 BS #410H: PAD D - B5

**Surface Hole Location:** 599' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E. **Bottom Hole Location:** 330' FEL & 50' FSL, Section 6, T. 26 S. R. 31 E.

#### **Planned APDs**

**FUTURE WELL #1:** PAD A – B1

Surface Hole Location: 395' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #2: PAD A - B2

Surface Hole Location: 425' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #3:** PAD A – C1

Surface Hole Location: 395' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #4:** PAD A – C2

Surface Hole Location: 425' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #5: PAD A - C3** 

Surface Hole Location: 455' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #6:** PAD A – C4

Surface Hole Location: 485' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

**FUTURE WELL #7:** PAD A – C5

Surface Hole Location: 515' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #8:** PAD B – B1

Surface Hole Location: 1920' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

**FUTURE WELL #9:** PAD B – B2

Surface Hole Location: 1950' FWL & 2435' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #10:** PAD B – C1

Surface Hole Location: 1921' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #11:** PAD B - C2

Surface Hole Location: 1951' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #12:** PAD B – C3

Surface Hole Location: 1981' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

**FUTURE WELL #13:** PAD B – C4

Surface Hole Location: 2011' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #14: PAD B - C5** 

Surface Hole Location: 2041' FWL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #15:** PAD C – B1

**Surface Hole Location:** 2039' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

FUTURE WELL #16: PAD C - B2

**Surface Hole Location:** 2009' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #17:** PAD C – C1

Surface Hole Location: 2037' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #18:** PAD C - C2

**Surface Hole Location:** 2007' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #19: PAD C - C3

**Surface Hole Location:** 1977' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #20:** PAD C – C4

**Surface Hole Location:** 1947' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

**FUTURE WELL #21:** PAD C – C5

**Surface Hole Location:** 1917' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #22: PAD D - B1

**Surface Hole Location:** 719' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

**FUTURE WELL #23:** PAD D – B2

Surface Hole Location: 689' FEL & 2435' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

**FUTURE WELL #24:** PAD D – C1

**Surface Hole Location:** 717' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

FUTURE WELL #25: PAD D - C2

Surface Hole Location: 687' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

FUTURE WELL #26: PAD D - C3

**Surface Hole Location:** 657' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

**FUTURE WELL #27:** PAD D - C4

**Surface Hole Location:** 627' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

**Bottom Hole Location:** To Be Determined

FUTURE WELL #28: PAD D - C5

Surface Hole Location: 597' FEL & 2560' FNL, Section 30, T. 25 S. R. 31 E.

Bottom Hole Location: To Be Determined

#### SURFACE USE PLAN

XTO Energy Inc.

# POKER LAKE UNIT 30 BS

# S30 T25S R31E

Well Name	SHL N/S Footage (ft)	SHL N/S Footage Line	SHL E/W Footage (ft)	SHL E/W Footage Line
POKER LAKE UNIT 30 BS 108H	2435	FNL	455	FWL
POKER LAKE UNIT 30 BS 109H	2435	FNL	485	FWL
POKER LAKE UNIT 30 BS 110H	2435	FNL	515	FWL
POKER LAKE UNIT 30 BS 208H	2435	FNL	1980	FWL
POKER LAKE UNIT 30 BS 209H	2435	FNL	2010	FWL
POKER LAKE UNIT 30 BS 210H	2435	FNL	2040	FWL
POKER LAKE UNIT 30 BS 308H	2435	FNL	1979	FEL
POKER LAKE UNIT 30 BS 309H	2435	FNL	1949	FEL
POKER LAKE UNIT 30 BS 310H	2435	FNL	1919	FEL
POKER LAKE UNIT 30 BS 408H	2435	FNL	659	FEL
POKER LAKE UNIT 30 BS 409H	2435	FNL	629	FEL
POKER LAKE UNIT 30 BS 410H	2435	FNL	599	FEL

#### **Well Site Locations**

The results of the Poker Lake Unit 30 Big Sinks Development Program will develop economic quantities of oil and gas in the 'Poker Lake Unit 30 Big Sinks' area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

#### Surface Use Plan

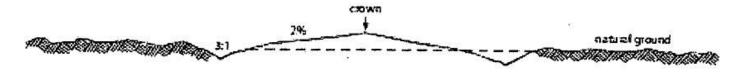
#### 1. Existing Roads

- A. The Poker Lake Unit 30 BS area is accessed by existing U.S. Hwy 128 and Buck Jackson Road approximately 4.5 miles to the intersection with Buckthorn Road. Turn left approximately 9 miles. Road heads South, then West to intersection with Buck Jackson Rd. Turn left approximately .5 miles. The proposed road and locations are to the east. Transportation Plan identifying existing roads that will be used to access the project area is included from Frank's Surveying marked as, 'Vicinity Map.'
- B. Transportation Plan identifying existing access roads that will be used to access the project area is included from FSC, Inc. Marked as 'Topographical and Access Road Map'. We are requesting a secondary access road to each pad as well. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Frank's Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

C. The project is located approximately 27 miles to the town of Loving, New Mexico.

## 2. New or Upgraded Access Roads

- A. New Roads. Proposed length of road 451.37 ft and width of 30ft, requires 0.3109 acre of area.
- B. **Well Pads**. There will be expansions on all 4 well pads, Pad A expansion is 167' x 550' (2.10 acres), Previously approved Pad A size is 400' x 550' (4.86 acres). Pad B expansion is 395' x 550' (5.01 acres), Previously approved Pad B size is 400' x 550' (4.91 acres). Pad C expansion is 169' x 550' (2.11 acres), Previously approved Pad C size is 400' x 550' (4.98 acres). Pad D expansion is 171' x 550' (2.15 acres), Previously approved Pad D size is 400' x 550' (4.90 acres). The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
- C. Anticipated Traffic. After well completion, travel to each well site will included one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
- D. **Routing**. All equipment and vehicles will be confined to the travel routes laid out in the vicinity map provided by Frank's Surveying unless otherwise approved by the BLM and applied for by XTO Permian Operating LLC.
- E. **Road Dimensions**. The maximum width of the driving surface of new roads will be 14 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.



# **Level Ground Section**

- F. **Surface Material**. Surface material will be native caliche. The average grade of all roads will be approximately 3%.
- G. Fence Cuts: No.
- H. Fences: No.
- I. Cattle Guards: No.
- J. Turnouts: No.
- K. Culverts: No.
- L. **Cuts and Fills**: Not significant.
- M. **Topsoil**. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
- N. **Maintenance**. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
- O. **Drainage**. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating

Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

#### 3. Location of Existing Wells

A. See attached 1-mile radius well map.

#### 4. Ancillary Facilities

A. **Ancillary Facilities**. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to: campsites, airstrips or staging areas.

#### 5. Location of Proposed Production Facilities

- A. **Production Facilities**. No additional facilities are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with facility information. No additional surface distribution is required or anticipated.
- B. **Flowlines**. No additional flowlines are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with flowline information. No additional surface distribution is required or anticipated.
- C. **Gas Pipeline**. No additional pipelines are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with MSO tie-in information. No additional surface distribution is required or anticipated.
- D. **Disposal Facilities**. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM.
- E. **Flare**. No additional flares are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with Flare information. No additional surface distribution is required or anticipated.
- F. **Aboveground Structures**. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment.
- G. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas.
- H. Electrical. No additional electrical are required for the Poker Lake Unit 30 BS wells from the original EA. Original EA was approved in 2018 with OHE information. No additional surface distribution is required or anticipated.

#### 6. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3<sup>rd</sup> party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased from the following company: Texas Pacific Water Resources

Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Permian Operating, LLC from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico.

Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

#### 7. Construction Activities

- A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.
- B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.
- C. Anticipated Caliche Locations:
  - a. Pit 1: Federal Caliche Pit, Section 17-T25S-R30E NESW
  - b. Pit 2: Federal Caliche Pit, Section 34-T25S-R29E SWSW

#### 8. Methods for Handling Waste

- **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.
- Sewage. Portable, self-contained toilets will be provided for human waste disposal. Upon completion of
  drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents
  thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations
  pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly
  maintained during the drilling and completion operations and will be removed when all operations are
  complete.
- Garbage and Other Waste Materials. All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- **Debris**. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.

#### Hazardous Materials.

i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).

- ii. XTO Permian Operator, LLC and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERLCA includes any 'hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
- iii. No hazardous substances or wastes will be stored on the location after completion of the well.
- iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

#### 9. Well Site Layout

- A. **Rig Plat Diagrams**: There are 4 multi-well pads in the Poker Lake Unit 30 Big Sinks lease anticipated. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East:
  - 1. Pad A is a 10-well pad expected to be 500'x 550'.
  - 2. Pad B is a 15-well pad expected to be 710'x 550'.
  - 3. Pad C is a 10-well pad expected to be 500'x 550'.
  - 4. Pad D is a 10-well pad expected to be 500'x 550'.

**Closed-Loop System**: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

- B. **V-Door Orientation**: These wells were staked with multiple v-door orientations. The following list is from West to East in accordance to the staked section and as agreed upon with Fernando Banos, BLM Natural Resource Specialist, present at the original on-site inspection.
  - 1. Pad A has a V-Door Orientation of West.
  - 2. Pad B has a V-Door Orientation of West.
  - 3. Pad C has a V-Door Orientation of West.
  - 4. Pad D has a V-Door Orientation of West.
- C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

#### 10. Plans for Surface Reclamation:

XTO Permian Operating LLC requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, XTO Permian Operating LLC. will coordinate interim reclamation with the appropriate BLM personnel or use the following plan:

Non-Commercial Well (Not Productive), Interim & Final Reclamation:

*Definition:* Reclamation includes disturbed areas where the original landform and a natural vegetative community will be restored and it is anticipated the site will not be disturbed for future development.

#### Reclamation Standards:

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plats attached).

All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded.

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

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

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.

The site will be free of State-or County-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds will be controlled.

#### Seeding:

- Seedbed Preparation: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- <u>Seed Application</u>. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

#### 11. Surface Ownership

- A. Within the Poker Lake Unit 30 Big Sinks project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

#### 12. Other Information

<u>Changes from Notice of Staking / Onsite</u> <u>Surveying</u>

- Well Sites. Well pad locations have been staked. Surveys of the proposed access roads and well pad
  locations have been completed by Frank Surveying, a registered professional land surveyor. Center stake
  surveys with access roads have been completed on State and Federal lands with Zane Kirsh, Bureau of
  Land Management Natural Resource Specialist in attendance.
- **Cultural Resources Archaeology**: A payment into the PA was previously made for these projects. We will make another payment on the expansion of the pads along with eh access roads.
- **Dwellings and Structures**. There are no dwellings or structures within 2 miles of this location.

#### Soils and Vegetation

- Environmental Setting. 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.
- Traffic. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.
- Water. There is no permanent or live water in the immediate or within the project area.

#### 13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050

#### **Operator's Representatives:**

The XTO Permian Operating, LLC representatives for ensuring compliance of the surface use plan are listed below:

#### Surface:

Robert Bartels Construction Execution Planner XTO Energy, Inc 3104 E. Greene St Carlsbad, NM 88220 406-478-3617 (Mobile)

Onsite: June 9, 2022 with Zane Kirsch/Ben Katchner with Bureau of Land Management Natural Resource Specialist.



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

PWD Data Report

PWD disturbance (acres):

**APD ID:** 10400094850 **Submission Date:** 09/29/2023

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Well Type: OIL WELL Well Work Type: Drill

# **Section 1 - General**

Would you like to address long-term produced water disposal?  ${\sf NO}$ 

## **Section 2 - Lined**

Would you like to utilize Lined Pit PWD options? N

**Produced Water Disposal (PWD) Location:** 

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Released to Imaging: 1/9/2025 8:55:23 AM

**Operator Name: XTO PERMIAN OPERATING LLC** 

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

**Lined pit Monitor description:** 

**Lined pit Monitor** 

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

## **Section 3 - Unlined**

Would you like to utilize Unlined Pit PWD options? N

**Produced Water Disposal (PWD) Location:** 

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

**Unlined pit Monitor** 

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

**Unlined Produced Water Pit Estimated** 

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

**Produced Water Disposal (PWD) Location:** 

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

**Minerals protection information:** 

**Mineral protection** 

**Underground Injection Control (UIC) Permit?** 

**UIC Permit** 

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

**Produced Water Disposal (PWD) Location:** 

PWD surface owner: PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

**Surface Discharge NPDES Permit?** 

**Surface Discharge NPDES Permit attachment:** 

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 -

Would you like to utilize Other PWD options? N

**Produced Water Disposal (PWD) Location:** 

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Released to Imaging: 1/9/2025 8:55:23 AM

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 30 BS Well Number: 308H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 411818

#### **CONDITIONS**

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	411818
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
tsebastian	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/13/2024
tsebastian	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/13/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/9/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/9/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/9/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/9/2025