

Initial Application Part I

Received: 06/28/2019

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

RECEIVED: 06/28/2019	REVIEWER:	TYPE: SWD	APP NO: pMAM1918229881
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: XTO Permian Operating, LLC **OGRID Number:** 373075
Well Name: Poker Lake Unit 26 Bridge SWD #1 **API:** TBA
Pool: SWD: Devonian-Silurian **Pool Code:** 97869

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD
- B. Check one only for [I] or [II]
 [I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

SWD-2176

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
 A. ☒ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☒ Application requires published notice
 D. ☒ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☒ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

- ☐ Notice Complete
☐ Application
 Content
 Complete

- 3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Tracie J. Cherry, Regulatory Lead

Print or Type Name

Signature

Date

06/28/19

432-221-7379

Phone Number

tracie_cherry@xtoenergy.com

e-mail Address

McMillan, Michael, EMNRD

From: Cherry, Tracie <Tracie_Cherry@xtoenergy.com>
Sent: Friday, June 28, 2019 10:42 AM
To: McMillan, Michael, EMNRD
Subject: [EXT] Poker Lake Unit 26 Bridge SWD #1
Attachments: 3901_001.pdf; 6 PLU 26 Bridge SWD one mile buffer.pdf; 7 PLU 26 Bridge SWD two mile buffer.pdf

Good morning Michael.

Attached is scanned copy of For C-108, Application for Authorization to Inject and all required attachments. The "hard copy" application is being mailed to you via certified mail. Attached is PDF copy of the one-mile and two-mile radius maps in case the scanned copies are not clear.

All required notices were also mailed this date via certified mail.

As always, please do not hesitate to contact me if you have any questions or need any additional information.

Thank you....Tracie

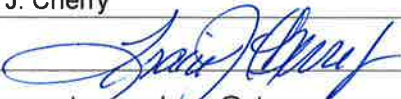
Tracie J Cherry
Regulatory Coordinator
Direct number 432-221-7379



a subsidiary of ExxonMobil

From: noreply2@xtoenergy.com [mailto:noreply2@xtoenergy.com]
Sent: Friday, June 28, 2019 11:17 AM
To: Cherry, Tracie <Tracie_Cherry@xtoenergy.com>
Subject: Attached Image

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance XX Disposal XX Storage XX
Application qualifies for administrative approval? XX Yes XX No
- II. OPERATOR: XTO Permian Operating, LLC (373075)
ADDRESS: 6401 Holiday Hill Rd. Bldg 5, Midland, TX 79707
CONTACT PARTY: Tracie J. Cherry, Regulatory Coordinator PHONE: 432-221-7379
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? XX Yes XX No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Tracie J. Cherry TITLE: Regulatory Lead
SIGNATURE:  DATE: 06/28/19
E-MAIL ADDRESS: tracie_cherry@xtoenergy.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

III. Well Data

A. 1) Lease name: **Poker Lake Unit 26 Bridge SWD**
 Well #: **1** API # **TBA**
 Section: **26**
 Township: **25S**
 Range: **29E**
 Footage: **875' FSL & 2306 FEL**

2) Casing Info:

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
18-5/8", 87.5# J-55 BTC	1250'	2035 sx C	24	Surf	Circ
13-3/8" 68# HCL-80 BTC	3880'	2230 sx Poz/C	17-1/2"	Surf	Circ
		870 sx C			
9-5/8" 53.5# HCP-110 BTC	11,820'	Stage 1	12-1/4"	Surf	Circ
		2210 sx Poz/H			
		Stage 2			
	11,870'	1205 sx Poz/H			
7" 32# HCP-110 BTC	11,400'-16,840'	800 sx Poz/H	8-1/2"	11,400'	Circ

3) Tubing to be used (size, lining material, setting depth):

Tapered String

5-1/2" , 17#, P-110 IPC to 10,900'

4-1/2" , 13.65#, P-110 IPC tubing @ 10,900'-16,740'

4) Name, model, and depth of packer to be used:

Baker Series F nickle plated permanent packer @ 16,740'

B. 1) Name of the injection formation and, if applicable, the field or pool name:

SWD; Devonian-Silurian

2) The injection interval and whether it is perforated or open hole:

Open hole, 16,840'-18,187' (or to the base of the Fusselman as determined by mud logs)

3) State if the well was drilled for injection or, if not, the original purpose of the well:

This well is being drilled for the purpose of injection

4) Give the depths of any other perforated intervals and detail on the sacks of cement or BPs used to seal off such perforations:

N/A

5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any:

Higher: Bell Canyon (+/- 4015), Cherry Canyon (+/-4922') Brushy Canyon (+/-6167'),

Bone Spring (+/-8737'), Wolfcamp (+/-11,132'), Atoka (+/-13,847')Morrow (+/-14,467')

Lower: None

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
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 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name PLU 26 BRIDGE SWD			⁶ Well Number 1
⁷ OGRID No. 260737		⁸ Operator Name XTO PERMIAN OPERATING, LLC.			⁹ Elevation 3,315'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	26	25 S	30 E		875	SOUTH	2,306	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order 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.

¹⁶ SEC. 22 				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
				Signature _____ Date _____	
				Printed Name _____	
				E-mail Address _____	
¹⁸ SURVEYOR CERTIFICATION 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 is true and correct to the best of my belief.				06-03-2019 Date of Survey Signature and Seal of Professional Surveyor:	
GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 399,095.7 X= 690,768.3 LAT.= 32.096274°N LONG.= 103.850777°W				GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 399,037.8 X= 649,582.9 LAT.= 32.096150°N LONG.= 103.850297°W	
CORNER COORDINATES TABLE NAD 83 NME A - Y= 400,883.8 N, X= 690,424.7 E B - Y= 400,896.3 N, X= 693,078.2 E C - Y= 398,218.5 N, X= 690,423.4 E D - Y= 398,235.0 N, X= 693,072.5 E				CORNER COORDINATES TABLE NAD 27 NME A - Y= 400,825.8 N, X= 649,239.4 E B - Y= 400,838.4 N, X= 651,892.9 E C - Y= 398,160.6 N, X= 649,238.0 E D - Y= 398,177.1 N, X= 651,887.1 E	
PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT				MARK DILLON HARP 23786 Certificate Number _____ AW 2018112625	

PLU 26 Bridge SWD #1

Proposed SWD Schematic (June 26, 2019)

County: Eddy
SHL: 875' FSL, 2306' FEL
Sec 26, T 25S, R 30E

BHL: 875' FSL, 2306' FEL
Sec 26, T 25S, R 30E



API # N/A
Elevation GL 3315', KB 3347' (32' AGL)
Rig: TBD (RKB 32')

Geology	Casing & Cement	Wellhead	Hole Size	General Notes
(Tech Data Sheet)				
TVD Formation				
1,047' Rustler	<u>Lead (100% OH excess)</u> 1075 sx 12.8ppg Class C Top of Tail @ 0' <u>Tail (100% OH excess)</u> 960 sx 14.8ppg Class C Top of Tail @ 800' 18-5/8" 87.5# J-55 BTC	1250' MD	24"	
1,437' Top Salt	<u>Lead (150% OH excess)</u> 2230 sx 12.8ppg Poz/C Top of Lead @ 0' <u>Tail (100% OH excess)</u> 870 sx 14.8ppg Class C Top of Tail @ 3100' 13-3/8" 68# HCL-80 BTC	3880' MD	17-1/2"	
3,772' Base Salt				
3,970' Delaware	<u>Sta 2 Lead (100% OH excess)</u> 790 sx 11.5ppg Poz/H Top of Lead @ 0' <u>Sta 2 Tail (100% OH excess)</u> 415 sx 14.8ppg Poz/H Top of Tail @ 3100' DV tool at 3980'		12-1/4"	
7,829' Bone Spring	<u>Sta 1 Lead (100% OH excess)</u> 1655 sx 11.5ppg Poz/H Top of Lead @ 3980'	11400' MD	5-1/2" 17# P-110 IPC tbg 0 - 10,900'	Crossover @ 10,900'
11,132' Wolfcamp	<u>Sta 1 Tail (100% OH excess)</u> 555 sx 14.8ppg Poz/H Top of Tail @ 10820'	11820' MD	4-1/2" 13.65## P-110 IPC tbg 10,900' - 16,737'	
11,672' Wolfcamp B	9-5/8" 53.5# HCP-110 BTC			
13,677' Strawn	<u>Tail (40% OH excess)</u> 805 sx 14.5ppg Poz/H Top of Tail @ 11400'		8-1/2"	
13,847' Atoka				
14,467' Morrow				
16,347' Mississippian Lm				
16,647' Woodford				
16,817' Devonian	7" 32# HCP-110 BTC	16840' MD	Baker Series F Nickle Plated Permanent pkr @ 16,737'	
17,937' Base of Fusselman				
18,187' TVD at BHL	Open hole completion	18,187' MD 18,187' TVD	6"	
Approvals Prepared by: _____ Peer Reviewed by: _____ Date _____ Reviewed by: _____ Approved by: _____				

PLU 26 Bridge SWD 1 Eddy County, New Mexico One Mile AOR

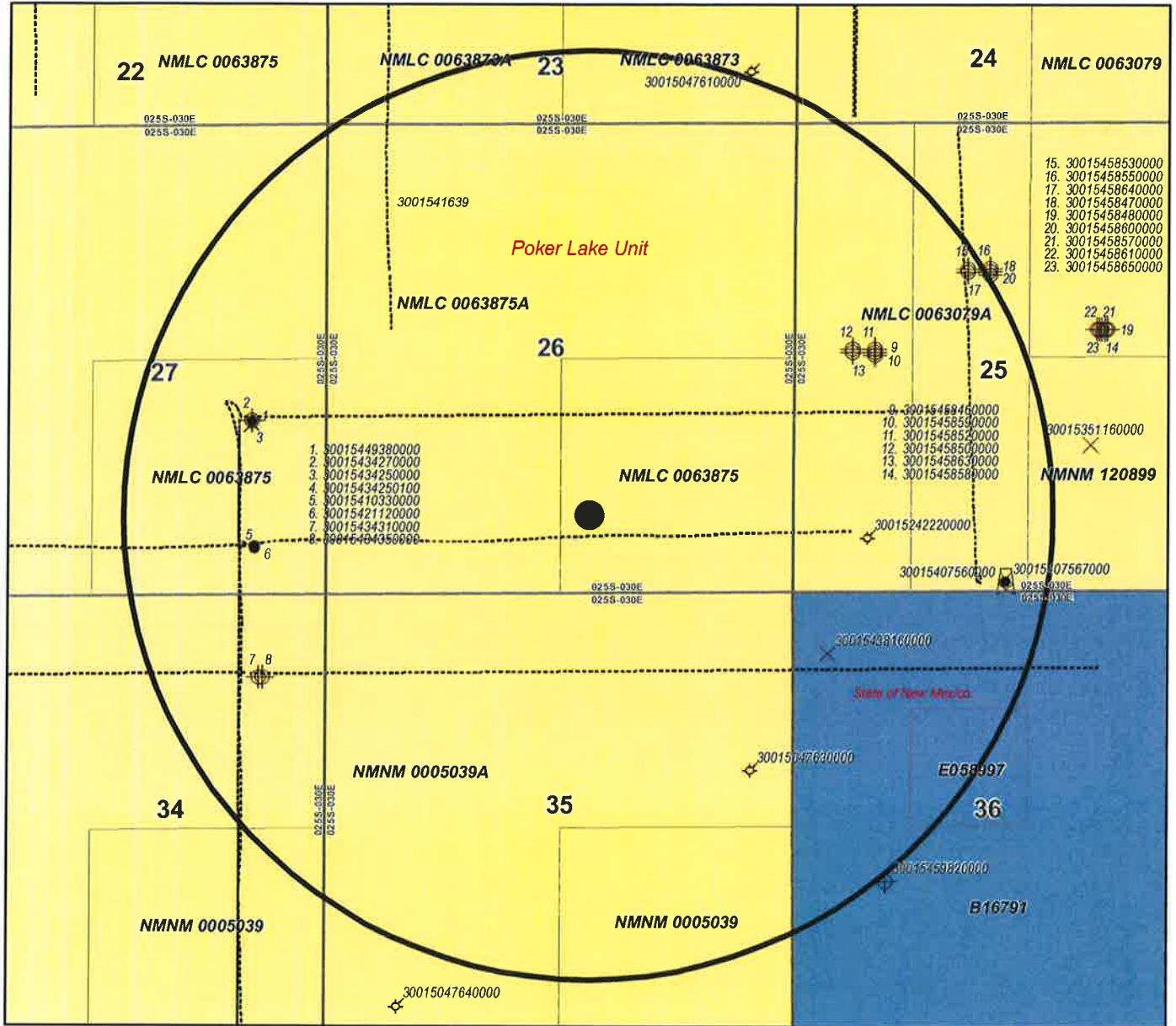
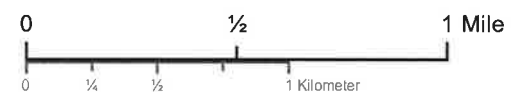























Exhibit A

[illegible]

----- wellbore	Well Status Name	<input checked="" type="checkbox"/> NON-PRODUCING OTHER
 State Lease	 GAS	 CO2
 Federal Lease	 INJECTION	 DRY
 two mile buffer	 MULTI OIL AND GAS PRODUCER	 STORAGE
 BLM Active Unit - Poker Lake	 OIL	 CBM
	 OIL AND GAS PRODUCER	 OTHER PRODUCING
	 MULTIPLE GAS PRODUCER	 WATER SUPPLY WELL
	 MULTIPLE OIL PRODUCER	 WELL PERMIT
	 ABANDONED	 WELL START
	 DRILLING	

known well operator in buffer
ALAMO CORP
BASS PERRY R
BOPCO LP
CHAPMAN FORD
CHESAPEAKE OPERG INC
EL PASO NAT GAS CO
EOG RESOURCES INC
FASKEN DAVID
XTO PERMIAN OPER LLC

WELLS WITHIN ONE MILE												
API	wellname	section	township	range	unit_tr	ogrid_name	status	spud_year	directional	pool_id_list	Well Type	Well Status
30-015-04761	Poker Lake Unit #9-A-5	23 25S	30E	30E	P	ALAMO CORPORATION	P	1958	0	Wildcat	Oil	Plugged (Site Released)
30-015-04763	MARSHAL FEDERAL #001	35 25S	30E	30E	H	FORD CHAPMAN	P	1960	0	No Data	Oil	Plugged (Site Released)
30-015-24222	POKER LAKE UNIT #056	25 25S	30E	30E	M	PERRY R BASS	P	1982	0	Wildcat	Oil	Plugged (Site Released)
30-015-40756	POKER LAKE CVX JV PB #004H	25 25S	30E	30E	N	XTO PERMIAN OPERATING LLC.	A	2012	H	[97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	Active
30-015-41033	POKER LAKE UNIT #421H	27 25S	30E	30E	P	XTO PERMIAN OPERATING LLC.	A	2014	H	[96620] CORRAL CANYON, DELAWARE SOUTH; [97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	Active
30-015-42112	POKER LAKE UNIT #457	27 25S	30E	30E	P	XTO PERMIAN OPERATING LLC.	A	2014	H	[96620] CORRAL CANYON, DELAWARE SOUTH; [97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	Active
30-015-43816	POKER LAKE UNIT CVX JV PB #020C	36 25S	30E	30E	D	XTO PERMIAN OPERATING LLC.	C	9999	H	[97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	Cancelled APD
30-015-44938	POKER LAKE UNIT #474Y	27 25S	30E	30E	I	XTO PERMIAN OPERATING LLC.	A	2018	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Oil	Active
30-015-45846	POKER LAKE UNIT 25 BD #102H	25 25S	30E	30E	E	XTO PERMIAN OPERATING LLC.	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-45847	POKER LAKE UNIT 25 BD #104H	25 25S	30E	30E	F	XTO PERMIAN OPERATING LLC.	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-45850	POKER LAKE UNIT 25 BD #121H	25 25S	30E	30E	E	XTO PERMIAN OPERATING LLC.	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-45852	POKER LAKE UNIT 25 BD #122H	25 25S	30E	30E	E	XTO PERMIAN OPERATING LLC.	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-45853	POKER LAKE UNIT 25 BD #123H	25 25S	30E	30E	F	XTO PERMIAN OPERATING LLC.	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-45855	POKER LAKE UNIT 25 BD #124H	25 25S	30E	30E	F	XTO PERMIAN OPERATING LLC.	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-45859	POKER LAKE UNIT 25 BD #701H	25 25S	30E	30E	E	XTO PERMIAN OPERATING LLC.	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-45860	POKER LAKE UNIT 25 BD #703H	25 25S	30E	30E	F	XTO PERMIAN OPERATING LLC.	N	9999	H	[97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	New (Not Drilled/Completed)
30-015-45863	POKER LAKE UNIT 25 BD #901H	25 25S	30E	30E	E	XTO PERMIAN OPERATING LLC.	N	9999	H	[97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	New (Not Drilled/Completed)
30-015-45864	POKER LAKE UNIT 25 BD #903H	25 25S	30E	30E	F	XTO PERMIAN OPERATING LLC.	N	9999	H	[97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	New (Not Drilled/Completed)
30-015-45982	PLU 36 BD BROMISTA MON STATE #001	36 25S	30E	30E	L	XTO PERMIAN OPERATING LLC.	N	9999	V	[98210] STRATAGRAPHIC	Oil	New (Not Drilled/Completed)
30-015-43425	POKER LAKE UNIT #474H	27 25S	30E	30E	I	XTO PERMIAN OPERATING LLC.	N	9999	H	[96620] CORRAL CANYON, DELAWARE SOUTH; [98220] PURPLE SAGE	Miscellaneous	New (Not Drilled/Completed)
30-015-43427	POKER LAKE UNIT #475H	27 25S	30E	30E	I	XTO PERMIAN OPERATING LLC.	N	9999	H	[98165] WC-015 G-04 \$2530271, DELAWARE	Oil	New (Not Drilled/Completed)
30-015-43431	POKER LAKE UNIT #470H	34 25S	30E	30E	A	XTO PERMIAN OPERATING LLC.	N	9999	H	[98165] WC-015 G-04 \$2530271, DELAWARE	Oil	New (Not Drilled/Completed)
30-015-43435	POKER LAKE UNIT CVX JV PB #021H	34 25S	30E	30E	A	XTO PERMIAN OPERATING LLC.	N	9999	H	[98165] WC-015 G-04 \$2530271, DELAWARE	Oil	New (Not Drilled/Completed)
Well bores that terminate inside or pass through the 1-mile buffer												
30-015-45848	POKER LAKE UNIT 25 BD #106H	12 25S	30E	30E	G	XTO PERMIAN OPERATING LLC	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-45861	POKER LAKE UNIT 25 BD #705H	25 25S	30E	30E	G	XTO PERMIAN OPERATING LLC	N	9999	H	[97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	New (Not Drilled/Completed)
30-015-45865	POKER LAKE UNIT 25 BD #905H	25 25S	30E	30E	G	XTO PERMIAN OPERATING LLC	N	9999	H	[97814] WILDCAT G-015 \$2630010, BONE SPRING	Oil	New (Not Drilled/Completed)
30-015-45857	POKER LAKE UNIT 25 BD #125H	25 25S	30E	30E	G	XTO PERMIAN OPERATING LLC	N	9999	H	[98220] PURPLE SAGE, WOLFCAMP (GAS)	Gas	New (Not Drilled/Completed)
30-015-41639	POKER LAKE UNIT CVX JV BS #025H	23 25S	30E	30E	D	XTO PERMIAN OPERATING LLC	A	2014	H	[13354] CORRAL CANYON, BONE SPRING, SOUTH	Oil	Active

Complete Water Analysis Report

Customer: **XTO ENERGY INC**
Region: **Carlsbad, NM**
Location: **Nash Draw 19**
System: **Production System**

Equipment: **Nash Draw 19 Federal 001 SWD**
Sample Point: **Transfer Pump**
Sample ID: **AL07043**
Acct Rep Email: **Anthony.Baeza@ecolab.com**

Collection Date: **06/08/2018**
Receive Date: **06/21/2018**
Report Date: **06/25/2018**
Location Code: **375624**

Field Analysis

Bicarbonate	60 mg/L	Dissolved CO2	1100 mg/L	Dissolved H2S	9 mg/L
Pressure Surface	20 psi	Temperature	96° F	pH of Water	6.3
Oil per Day	0 B/D	Gas per Day	0 Mcf/D	Water per Day	3500 B/D

Sample Analysis

Calculated Gaseous CO2	1.11 %	Calculated pH	6.30	Conductivity (Calculated)	392527 µS - cm3
Ionic Strength	5.25	Resistivity	0.025 ohms - m	Specific Gravity	1.196
Total Dissolved Solids	251270.3 mg/L				

Cations

Iron	46 mg/L	Manganese	7.14 mg/L	Barium	7.61 mg/L
Strontium	2000 mg/L	Calcium	28400 mg/L	Magnesium	4050 mg/L
Sodium	51200.00 mg/L	Potassium	1530 mg/L	Boron	28.9 mg/L
Lithium	15.1 mg/L	Copper	0.414 mg/L	Nickel	0.122 mg/L
Zinc	1.88 mg/L	Lead	0.25 mg/L	Cobalt	0.043 mg/L
Chromium	0.02 mg/L	Silicon	4.79 mg/L	Aluminum	Not Detected mg/L
Molybdenum	0.026 mg/L	Phosphorus	6.44 mg/L		

Anions

Bromide	1744.463 mg/L	Chloride	165315 mg/L	Sulfate	184.003 mg/L
---------	---------------	----------	-------------	---------	--------------

PTB Value

	Barite PTB	Calcite PTB	Celestite PTB	Gypsum PTB	Halite PTB	Iron Carbonate PTB	Iron Sulfide PTB
50°	4.29	11.73	93.75	25.67	0.00	0.00	7.10
75°	3.93	10.87	78.70	0.00	0.00	0.00	6.56
100°	3.30	10.04	66.11	0.00	0.00	0.00	6.05
125°	2.32	9.28	56.94	0.00	0.00	0.00	5.62
150°	0.96	8.63	51.03	0.00	0.00	0.00	5.29
175°	0.00	8.11	47.56	0.00	0.00	0.00	5.06
200°	0.00	7.71	45.63	0.00	0.00	0.00	4.90
225°	0.00	7.43	44.51	0.00	0.00	0.00	4.82
250°	0.00	7.26	43.71	0.00	0.00	0.00	4.79
275°	0.00	7.17	42.91	0.00	0.00	0.00	4.79
300°	0.00	7.14	42.00	0.00	0.00	0.00	4.82
325°	0.00	7.16	40.97	0.00	0.00	0.00	4.86
350°	0.00	7.22	39.85	0.00	0.00	0.00	4.90
375°	0.00	7.27	38.56	0.00	0.00	0.00	4.94
400°	0.00	9.14	36.83	0.00	0.00	0.00	6.24

Saturation Index

	Barite SI	Calcite SI	Celestite SI	Gypsum SI	Halite SI	Iron Carbonate SI	Iron Sulfide SI
50°	1.28	1.32	0.65	0.11	-0.52	-0.16	2.19
75°	0.88	1.18	0.47	-0.06	-0.54	-0.19	1.87
100°	0.57	1.06	0.35	-0.16	-0.56	-0.21	1.62
125°	0.32	0.96	0.29	-0.23	-0.58	-0.23	1.43
150°	0.11	0.88	0.25	-0.29	-0.60	-0.25	1.30
175°	-0.07	0.81	0.23	-0.35	-0.61	-0.27	1.21
200°	-0.23	0.76	0.23	-0.41	-0.63	-0.30	1.15
225°	-0.36	0.73	0.21	-0.49	-0.65	-0.32	1.12
250°	-0.48	0.70	0.20	-0.57	-0.66	-0.36	1.11
275°	-0.59	0.68	0.20	-0.64	-0.68	-0.40	1.12
300°	-0.70	0.67	0.19	-0.71	-0.69	-0.45	1.12
325°	-0.81	0.66	0.19	-0.74	-0.71	-0.52	1.14
350°	-0.92	0.65	0.18	-0.73	-0.72	-0.60	1.15
375°	-1.04	0.63	0.17	-0.66	-0.73	-0.71	1.15
400°	-1.17	0.81	0.17	-0.49	-0.74	-0.63	1.56

Scaling predictions calculated using Scale Soft Pitzer 2017

Scaling predictions dependent on provided field data. Incomplete/partial field data may impact results generated by scaling software.

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06/27/2018

Page 1 of 2

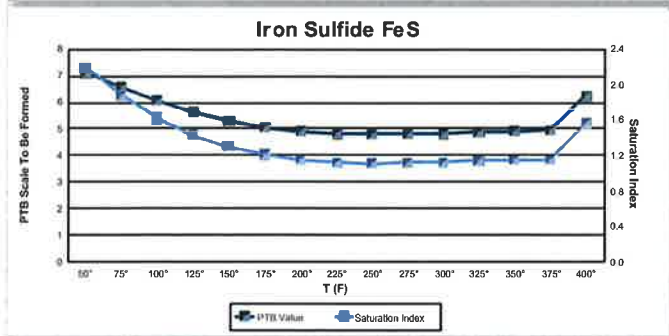
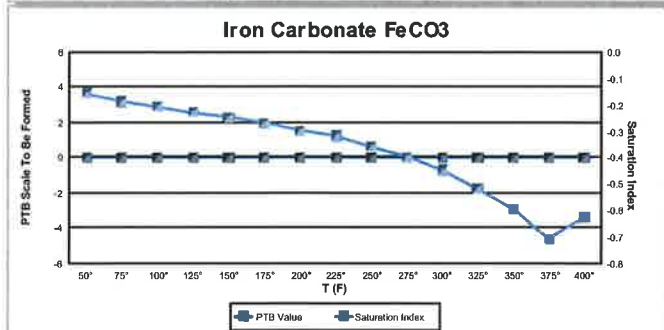
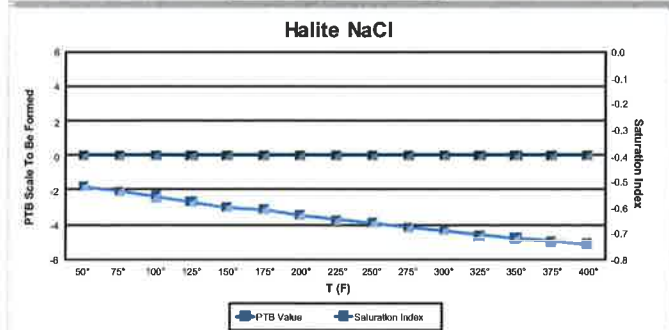
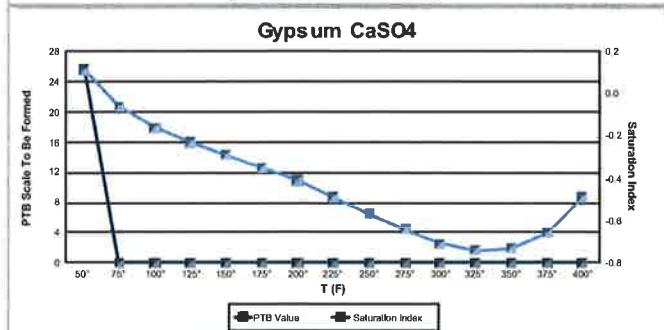
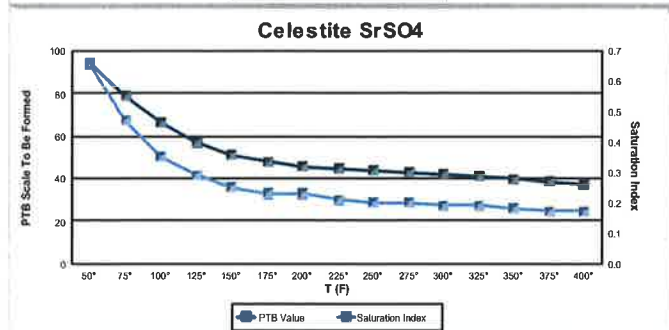
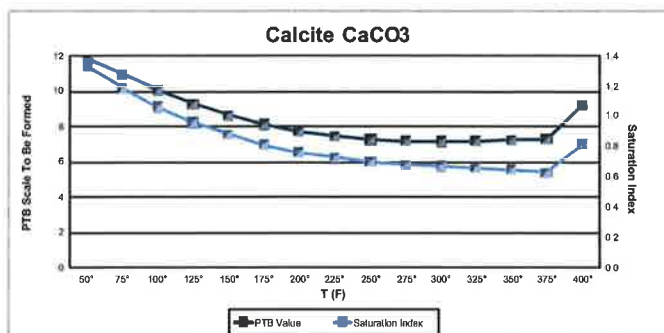
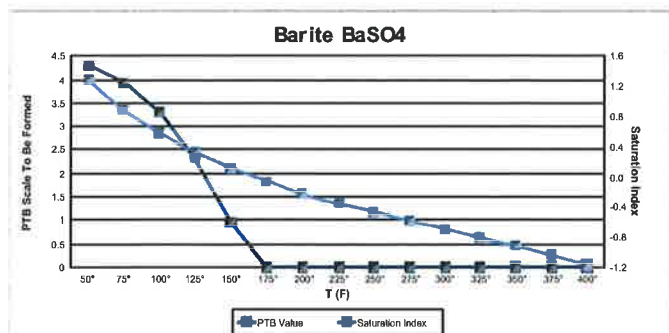
Exhibit D

Complete Water Analysis Report

Customer: XTO ENERGY INC
Region: Carlsbad, NM
Location: Nash Draw 19
System: Production System

Equipment: Nash Draw 19 Federal 001 SWD
Sample Point: Transfer Pump
Sample ID: AL07043
Acct Rep Email: Anthony.Baeza@ecolab.com

Collection Date: 06/08/2018
Receive Date: 06/21/2018
Report Date: 06/25/2018
Location Code: 375624



Scaling predictions calculated using Scale Soft Pitzer 2017

Scaling predictions dependent on provided field data. Incomplete/partial field data may impact results generated by scaling software.

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06/27/2018

Page 2 of 2



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 25-27

Township: 26S

Range: 30E

The data is furnished by the NMOSSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/24/19 3:22 PM

ACTIVE & INACTIVE POINTS OF DIVERSION

Exhibit E



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

WR File Nbr		Sub		basin Use		Diversion		Owner		County		POD Number		Well		Tag		Code		Grant		Source		Q Q Q		Sec		Twp		Rng		X		Y	
LWD 01210		CUB		PLS		17		BUCK & LARUE JACKSON TRUST		ED		LWD 01210 POD1										6416 4		3 2 3		36		25S		30E		609665		3550314*	

Record Count: 1

PLSS Search:

Section(s): 34-36 Township: 25S Range: 30E

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/24/19 3:23 PM

ACTIVE & INACTIVE POINTS OF DIVERSION

June 24, 2019

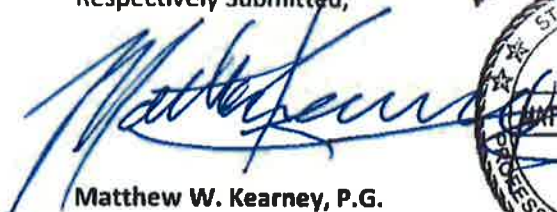
New Mexico, Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

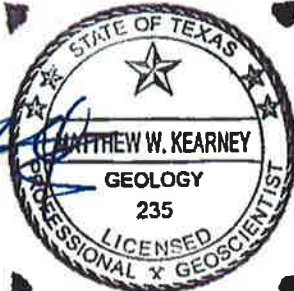
Re: Geology Statement per Question XII on the Application for Authorization to Inject Form C-108 for
XTO Energy Inc., an ExxonMobil subsidiary
PLU 26 Bridge SWD 1,
Section 26, Township 25 South, Range 30 East,
Eddy County, New Mexico

To whom it may concern:

XTO Energy, Inc., an ExxonMobil subsidiary, has examined available geological data at the above-mentioned well located at 875 feet from north line and 2,306 feet from east line of Section 26, Township 25 South, Range 30 East, Eddy County, New Mexico; and finds no evidence of open faults or other hydrologic connection between the disposal zone and the underground sources of drinking water.

Respectfully Submitted,


Matthew W. Kearney, P.G.



Geoscientist Geologist
XTO Energy Inc., an ExxonMobil subsidiary
22777 Springwoods Village Parkway
Spring, Texas 77389

Exhibit F

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001289668

Tracie J Cherry
XTO ENERGY
6401 HOLIDAY HILL RD. BLDG 5

MIDLAND TX 79707

I, a legal clerk of the **Carlsbad Current-Argus**,
a newspaper published daily at the City of
Carlsbad, in said county of Eddy, state of New
Mexico and of general paid circulation in said
county; that the same is a duly qualified
newspaper under the laws of the State wherein
legal notices and advertisements may be
published; that the printed notice attached
hereto was published in the regular and entire
edition of said newspaper and not in supplement
thereof on the date as follows, to wit:

06/26/19



Legal Clerk

Subscribed and sworn before me this
26th of June 2019.



State of WI, County of Brown
NOTARY PUBLIC



My Commission Expires

**NOTICE OF APPLICATION FOR
WATER DISPOSAL WELL PERMIT**

XTO Permian Operating, LLC is applying to the
New Mexico Oil Conservation Division for a per-
mit to dispose of produced water into a porous
formation not productive of oil or gas.

The applicant proposes to dispose of produced
water into **the Poker Lake Unit 26 Bridge SWD
#1** (Siluro-Devonian and Fusselman Forma-
tions). The maximum injection pressure will be
3,367 psi and the maximum rate will be 40,000
bbls. produced water per day. The proposed
disposal well is located approximately 17 miles
Southeast of Malaga, New Mexico in Section
26, T25S, R30E, 875' FSL & 2,306' FEL, Eddy
County, New Mexico. The produced water will
be disposed at a subsurface depth of
16,837'-18,187'.

Any questions concerning this application
should be directed to Tracie J Cherry, Regulator-
y Coordinator, XTO Energy, Inc, 6401 Holiday
Hill Rd, Bldg 5, Midland, Texas 79707,
(432) 221-7379.

Interested parties must file objections or re-
quests for hearing with the Oil Conservation Di-
vision, 1220 S. St. Francis Dr., Santa Fe, New
Mexico 87505 within 15 days.

June 26, 2019 # 1289668

Ad#:0001289668
P O : Poker Lake Unit 26 Bridge SWD #1
of Affidavits :0.00



Exhibit G

CERTIFIED MAILING LIST
XTO PERMIAN OPERATING, LLC
POKER LAKE UNIT 26 BRIDGE SWD #1

Surface Owner

Certified #7018 1130 0001 5531 4439

Bureau of Land Management
620 E. Greene Street
Carlsbad NM 88220-6292

Grazing Lessee

Certified #7018 1130 0001 5531 4446

DK Farms, Inc.
David Kirk
2727 Raquet Club Drive
Midland, TX 79705

Offset Notices

Certified #7018 1130 0001 5531 4453

The New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

Certified #7018 1130 0001 5531 4460

Chevron USA Inc
630 Deauville
Midland, TX 79706-2964

I, Tracie J Cherry, do hereby certify the surface owner and offset parties for the well shown were furnished a copy of XTO Permian Operating, LLC's application for salt water disposal, via certified mail on this date.

Signed:


Tracie J. Cherry

Title: Regulatory Coordinator

Date:





Statements Regarding Seismicity

XTO has performed a seismicity risk assessment associated with the proposed Poker Lake Unit 26 Bridge SWD Well by investigating historic seismicity, the presence of deep faulting and the potential for pore pressure build up that might cause a fault to slip. The analysis was done utilizing Stanford's Fault Slip Potential Tool version 2.0 (FSP; Walsh et al. 2017).

As part of our risk assessment we also consider mitigation options to address inherent uncertainties associated with the evaluation of possible seismicity. XTO has developed and will implement, as a precautionary measure, a seismicity monitoring plan to address the inherent uncertainty in the subsurface characterization, future rates of disposal and reservoir response.

A summary of the evaluation and seismicity monitoring plan follows:

Historic Seismicity

There are no seismic events reported by the USGS and State Geologic Survey within 6 miles of the proposed well. Additionally, the Texas Bureau of Economic Geology's TexNet website shows no recent earthquakes in Texas within ~25 miles of the New Mexico border in the Delaware Basin (Figure 1).

Deep Faulting

Utilizing licensed 3D seismic data in the area of the proposed SWD well, XTO did not interpret any coherent faults and/or linear features near the subject well. There are several seismic discontinuities that are interpreted as karst features in the Devonian section that do not appear to have significant lateral continuity.

Stress Regime

Utilizing data and analysis from Snee and Zoback, 'State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity' (Feb 2018, The Leading Edge) the region near the well is primarily a normal faulting regime (Figure 1).

Pore Pressure Modeling

A screening level investigation of possible pore pressure increases due to the proposed SWD well was performed utilizing the FSP tool. For this screening level analysis a 'high-side' flat rate model was run assuming disposal of 40,000 BWPD beginning in 2019 and continuing at that rate until 2040 (Figure 2). Snapshots of the calculated pore pressure increase in 2025 and 2040 are also shown in Figure 2.

Monitoring Plan

To manage the inherent uncertainty, XTO has contracted with a third party to provide seismicity monitoring using public seismometers augmented by a private array in the area of the proposed well. This will allow for a better determination of baseline seismicity as well as early detection should there be anomalous events. Additionally, XTO will determine the original pore pressure of the disposal interval prior to initiating operations. Upon request, XTO will share the results of this work with the EMNRD's UIC staff.



Tim Tyrrell
XTO Geoscience Technical Manager

PLU 26 Bridge SWD Well - Historic Seismicity

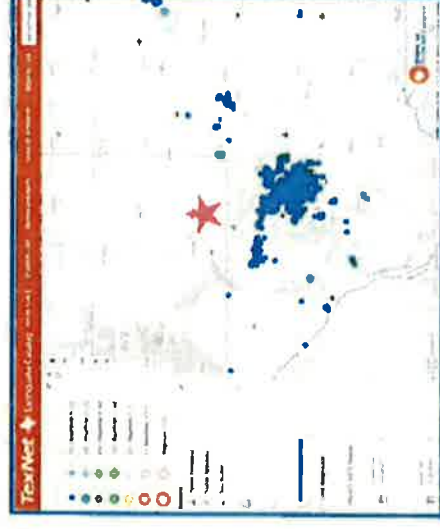
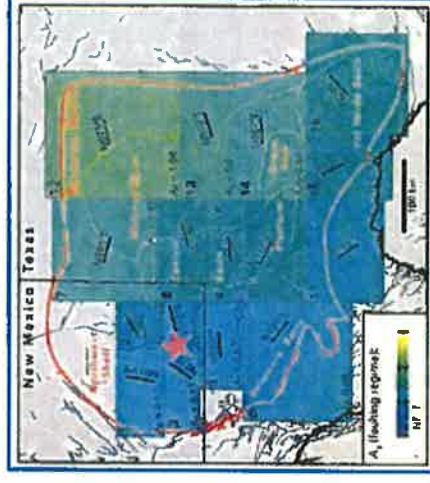
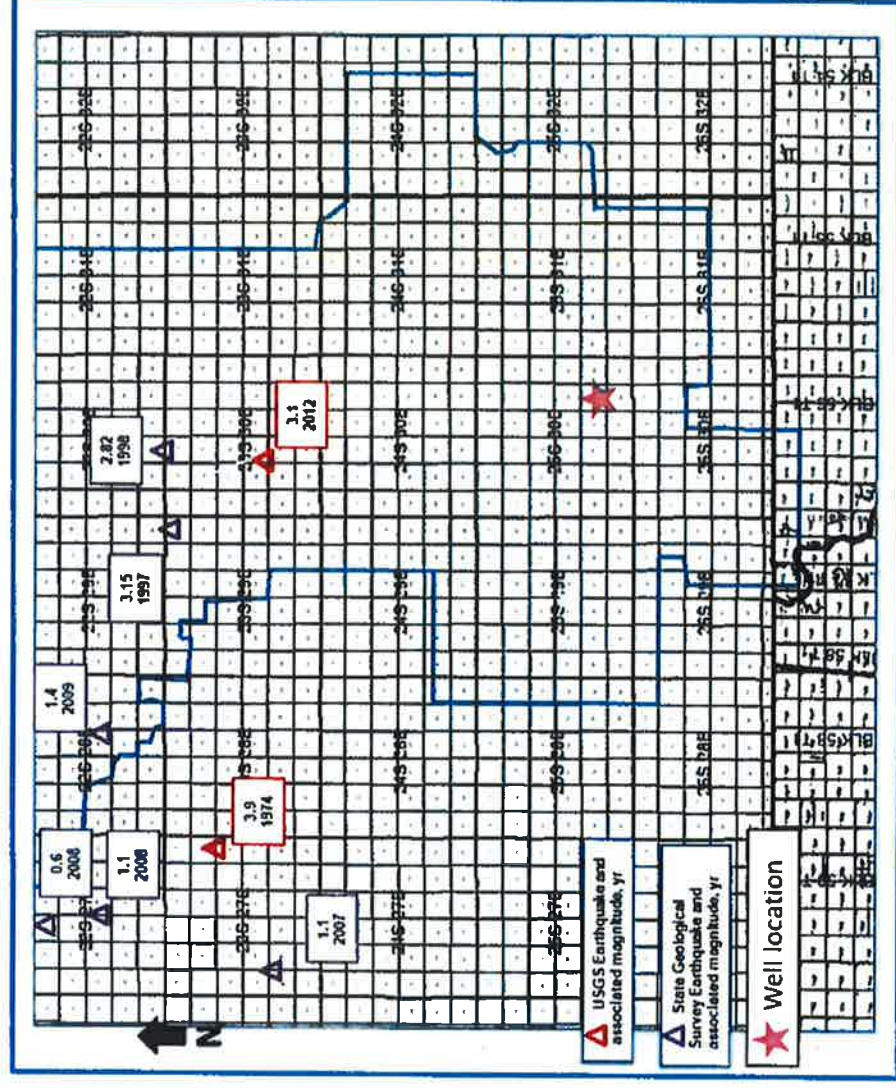
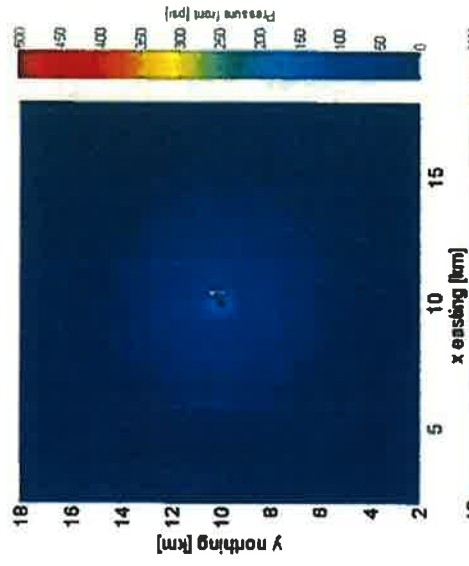


Figure 1

PLU 26 Bridge SWD Well – Pore Pressure

2025 Snapshot



2040 Snapshot

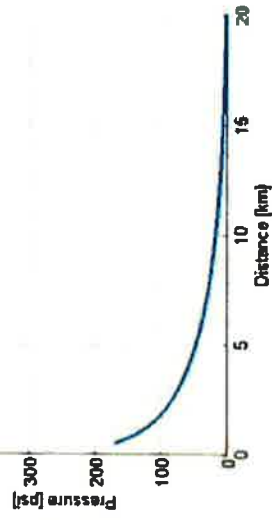
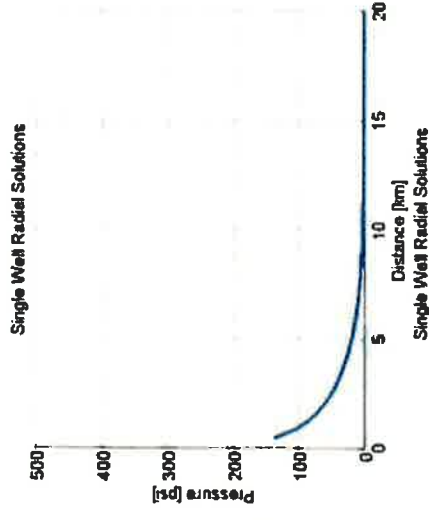
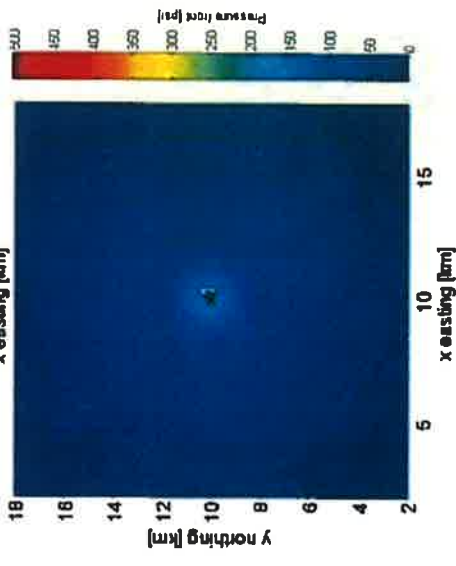
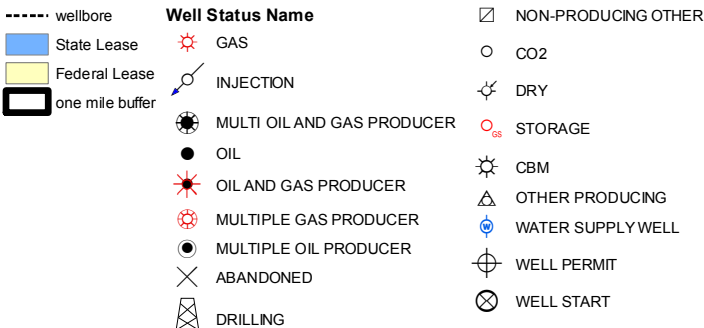
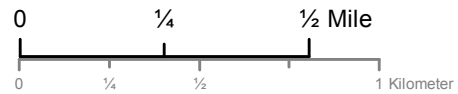
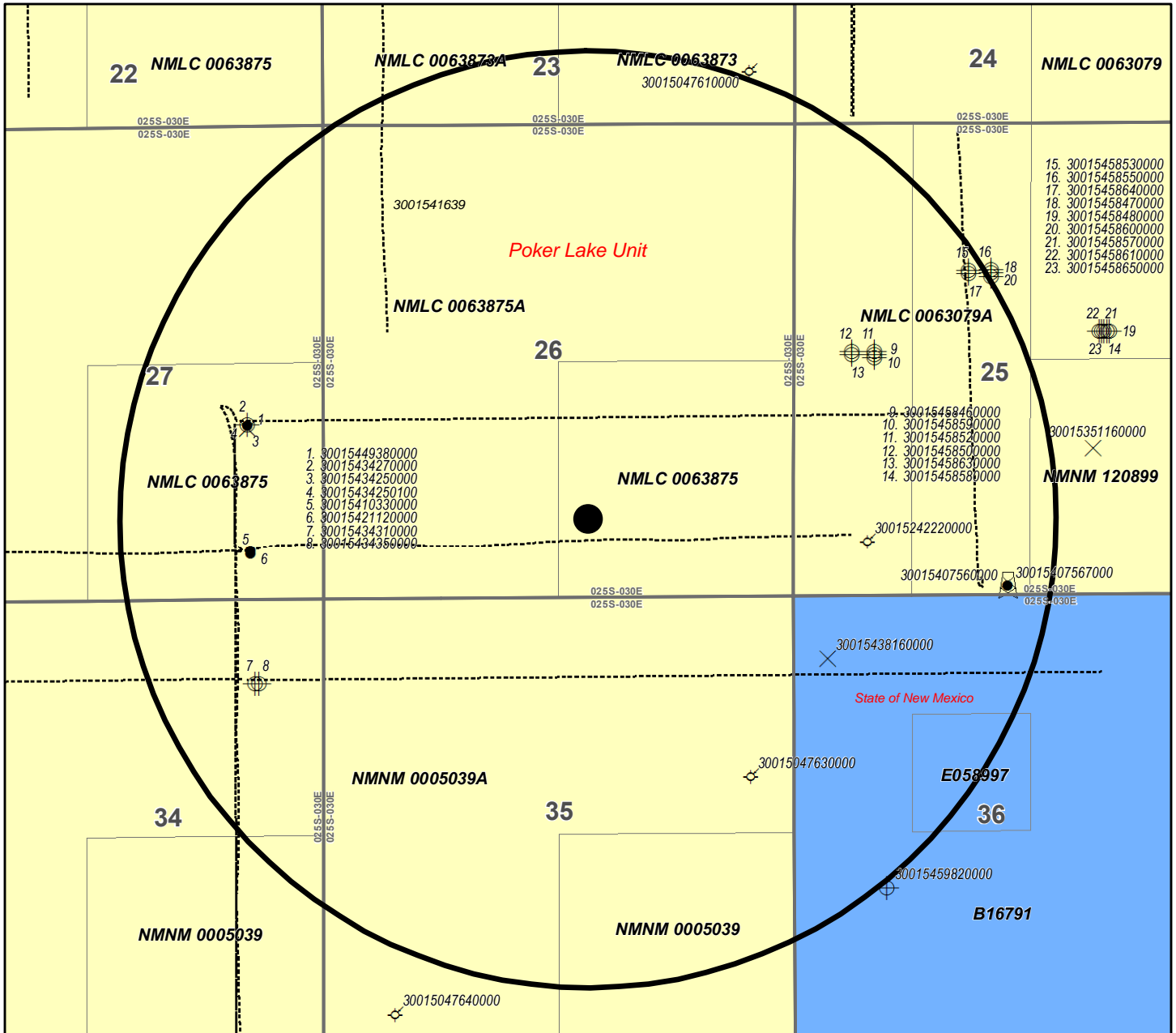


Figure 2

PLU 26 Bridge SWD 1 Eddy County, New Mexico One Mile AOR



known well operator in buffer
BASS PERRY R
BOPCO LP
CHAPMAN FORD
XTO PERMAN OPER LLC

[illegible]