

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: pMAM1918228720
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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: CC SR 24 RIBEYE SWD 1 **API:** TBA
Pool: Devonian; SWD **Pool Code:** 96101 Should 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-2175

- 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.

Cheryl Rowell, Regulatory Coordinator

Date

Print or Type Name

432-571-8205

Phone Number

Signature

cheryl_rowell@xtoenergy.com
 e-mail Address

McMillan, Michael, EMNRD

From: Rowell, Cheryl <Cheryl_Rowell@xtoenergy.com>
Sent: Friday, June 28, 2019 8:44 AM
To: McMillan, Michael, EMNRD
Subject: [EXT] SWD Application Submitted - CC 24 Ribeye SWD 1
Attachments: Submitted 6 27 19 _ CC 24 Ribeye SWD 1.pdf

Mr McMillan,

I have submitted the attached SWD application for the CC 24 Ribeye SWD 1 by certified mail on 6/27/19 to your office in Santa Fe.

Once received if you have any questions you can contact me at the number below.

Regards,
Cheryl

Cheryl Rowell
Regulatory Coordinator



An **ExxonMobil** Subsidiary
6401 Holiday Hill Rd, Bldg 5
Midland, TX 79701
Phone: 432-571-8205

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance ☒ Disposal Storage
Application qualifies for administrative approval? ☒ Yes No
- II. OPERATOR: XTO PERMIAN OPERATING, LLC
ADDRESS: 6401 HOLIDAY HILL RD., BLDG 5, MIDLAND, TX 79707
CONTACT PARTY: Cheryl Rowell PHONE: 432-571-8205
- 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? Yes ☒ 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: Cheryl Rowell TITLE: Regulatory Coordinator
SIGNATURE: Cheryl Rowell DATE: 6/26/19
E-MAIL ADDRESS: cheryl_rowell@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: _____

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: **CC SR 24 Ribeye SWD**
Well #: **1** API # **TBA**
Section: **24**
Township: **25S**
Range: **29E**
Footage: **110 FSL & 419 FEL**

2) Casing Info:

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
18-5/8", 87.5# J-55 BTC	860'	1520 sxs C	24	Surf	Circ
13-3/8" 68# HCL-80 BTC	3,350'	1970 sx Poz/C	17-1/2"	Surf	Circ
		840 sx C			
9-5/8" 53.5# HCP-110 BTC	11,140'	Stage 1 1065 sxs POZ/H	12-1/4"	Surf	Circ
DV tool @ 3450'		Stage 2 2165 sxs POZ/H			
7" 32# HCP-110 BTC	10,500'-16060'	790 sx Poz/H	8-1/2"	10,700'	Circ

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

Tapered String

5-1/2" , 17#, P-110 IPC to 10,200'

4-1/2" , 13.65#, P-110 IPC tubing @ 10,200'-15,960'

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

Baker Series F nickle plated permanent packer @ 15,960'

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

SWD; Devonian

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

Open hole, 16,060-17,186' (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: Cherry Canyon (+/-4107') Brushy Canyon (+/-5782'),

Avalon/Bone Spring (+/-7942'), Wolfcamp (+/-10,257'), Atoka (+/-12,867')Morrow (+/-13,477')

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 CC SR 24 RIBEYE SWD	⁶ Well Number 1
⁷ OGRID No. 260737	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,154'

¹⁰ Surface Location

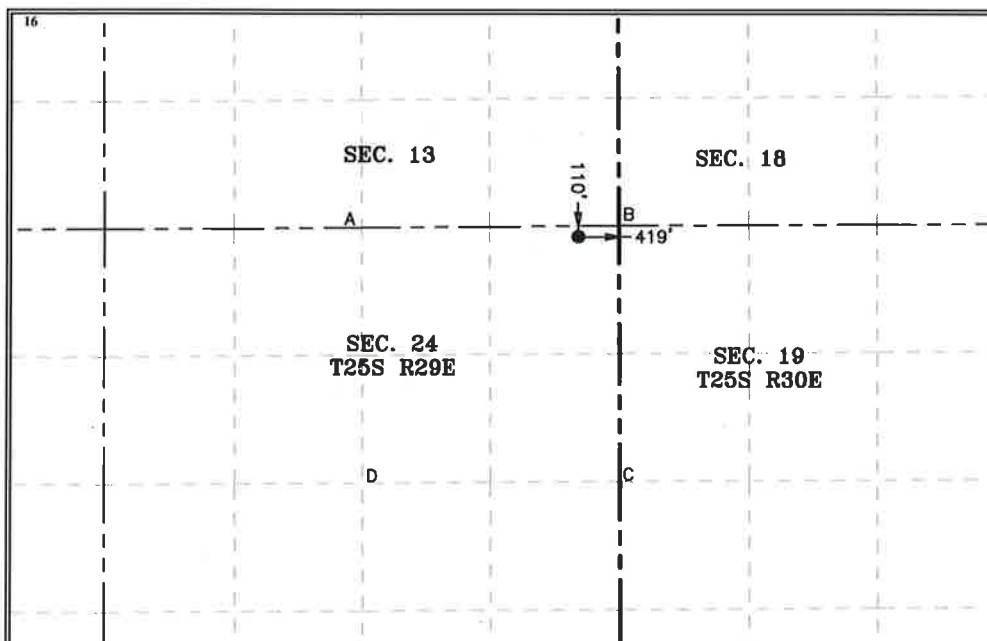
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	25 S	29 E		110	NORTH	419	EAST	EDDY

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.



GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 408,538.6
X= 665,970.4
LAT.= 32.122512°N
LONG.= 103.930741°W

CORNER COORDINATES TABLE
NAD 83 NME
A - Y= 408,628.8 N, X= 663,731.2 E
B - Y= 408,652.4 N, X= 666,388.9 E
C - Y= 405,993.3 N, X= 666,406.3 E
D - Y= 405,972.5 N, X= 663,743.5 E

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 408,480.4
X= 624,785.7
LAT.= 32.122387°N
LONG.= 103.930257°W

CORNER COORDINATES TABLE
NAD 27 NME
A - Y= 408,570.6 N, X= 622,546.5 E
B - Y= 408,594.2 N, X= 625,204.2 E
C - Y= 405,935.1 N, X= 625,221.5 E
D - Y= 405,914.3 N, X= 622,558.8 E

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.

06-06-2019

Date of Survey

Signature and Seal of
Professional Surveyor:

**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

AI

2019051211

C-108 DATA

- 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.
Maps attached (Exhibit A & Exhibit B).
- 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 wells type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
(Exhibit C)
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected:
20,000 average, 40,000 maximum BWPD
 2. Whether the system is open or closed: **closed**
 3. Proposed average and maximum injection pressure: **2,000 psi average, 3212 psi maximum**
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water: **Well will be part of a multi-well SWD system taking Permian waters. The majority of the produced water will come from Delaware, Bone Spring and Wolfcamp formations with minor amounts from Atoka and Morrow. An analysis of water to be disposed is attached (Exhibit D)**
 5. If injection is for disposal purposes into a zone not productive of oil & gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water:
No disposal wells are within one mile of the proposed well.
- 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 TDS 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:
- | | |
|---------------------------|--|
| Lithologic Detail: | Carbonates (Dolomite and Limestone) |
| Geological Name: | Devonian (Silurian-Devonian) |
| Thickness: | Est. 1,147' |
| Depth: | Est. 16,039' to 17,186' (includes 100 ft. b |

The Dewey Lake Red Beds consisting of alluvial sandstones, siltstones, and shales are present from the surface to the top of the Rustler Anhydrite. The top of the Rustler Anhydrite is estimated to be at approximately 720 feet below the surface in this CC SR 24 Ribeye SWD 1 well. These Dewey Lake Red Beds may contain fresh water throughout this geographic area, but it is not likely of drinking water quality (TDS of 10,000 mg/L or less).

Based on published maps, the Capitan Reef Aquifer is not present in this area.

No sources of fresh water are known to exist below the proposed disposal zone.

- IX. Describe the proposed stimulation program, if any:
Acid stimulate with approximately 5000 gallons of 15% NEFE HCL acid.
- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
Logs will be submitted with completion papers when well is drilled.
- 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.
According to the New Mexico Office of State Engineer database, there are no active water wells or points of diversion within a one-mile radius of the proposed well.
(Exhibit E)
- 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 hydrology connection between the disposal zone and any underground sources of drinking water.
(Exhibit F)
- XIV. Proof of Notice
(Exhibit G)

Corral Canyon 24 Ribeye SWD #1

Proposed SWD Schematic (June 26, 2019)

County: Eddy
SHL: 110' FNL, 419' FEL
Sec 24, T 25S, R 29E

BHL: 110' FNL, 419' FEL
Sec 24, T 25S, R 29E



API # N/A
Elevation GL 3154', KB 3186' (32' AGL)
Rig: TBD (RKB 32')

Geology	Casing & Cement	Wellhead	Hole Size	General Notes
TVD Formation		(Tech Data Sheet)		
720' Rustler	<u>Lead (100% OH excess)</u> 540 sx 12.8ppg Class C Top of Tail @ 0' <u>Tail (100% OH excess)</u> 980 sx 14.8ppg Class C Top of Tail @ 400' 18-5/8" 87.5# J-55 BTC	860' MD	24"	
986' Top Salt	<u>Lead (150% OH excess)</u> 1970 sx 12.8ppg Poz/C Top of Lead @ 0 <u>Tail (100% OH excess)</u> 840 sx 14.8ppg Class C Top of Tail @ 2600' 13-3/8" 68# HCL-80 BTC	3350' MD	17-1/2"	
3,244' Base Salt				
3,451' Delaware	<u>Stg 2 Lead (100% OH excess)</u> 665 sx 11.5ppg Poz/H Top of Lead @ 0' <u>Stg 2 Tail (100% OH excess)</u> 400 sx 14.8ppg Poz/H Top of Tail @ 2600' DV tool at 3450'		12-1/4"	5-1/2", 17#, P-110 IPC tbg to 10,200'
7,238' Bone Spring	<u>Stg 1 Lead (100% OH excess)</u> 1610 sx 11.5ppg Poz/H Top of Lead @ 3450'	10700' MD		Crossover 10,200'
10,466' Wolfcamp	<u>Stg 1 Tail (100% OH excess)</u> 555 sx 14.8ppg Poz/H Top of Tail @ 10140'	11140' MD		4-1/2", 13.65#, P-110 IPC tbg 10,000'-15,512'
10,994' Wolfcamp B	9-5/8" 53.5# HCP-110 BTC			
12,929' Strawn 13,058' Aloka 13,854' Morrow	<u>Tail (40% OH excess)</u> 790 sx 14.5ppg Poz/H Top of Tail @ 10700'		8-1/2"	
15,476' Mississippian Lm 15,696' Woodford 16,039' Devonian	7" 32# HCP-110 BTC	16060' MD		Baker Series F nickle plated permancent packer at 16,009'
17,036' Base of Fusselman			6"	
17,186' TVD at BHL	Open hole completion	17,186' MD 17,186' TVD		

Approvals

Prepared by: _____

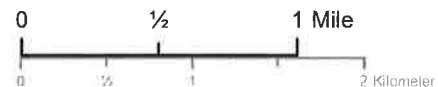
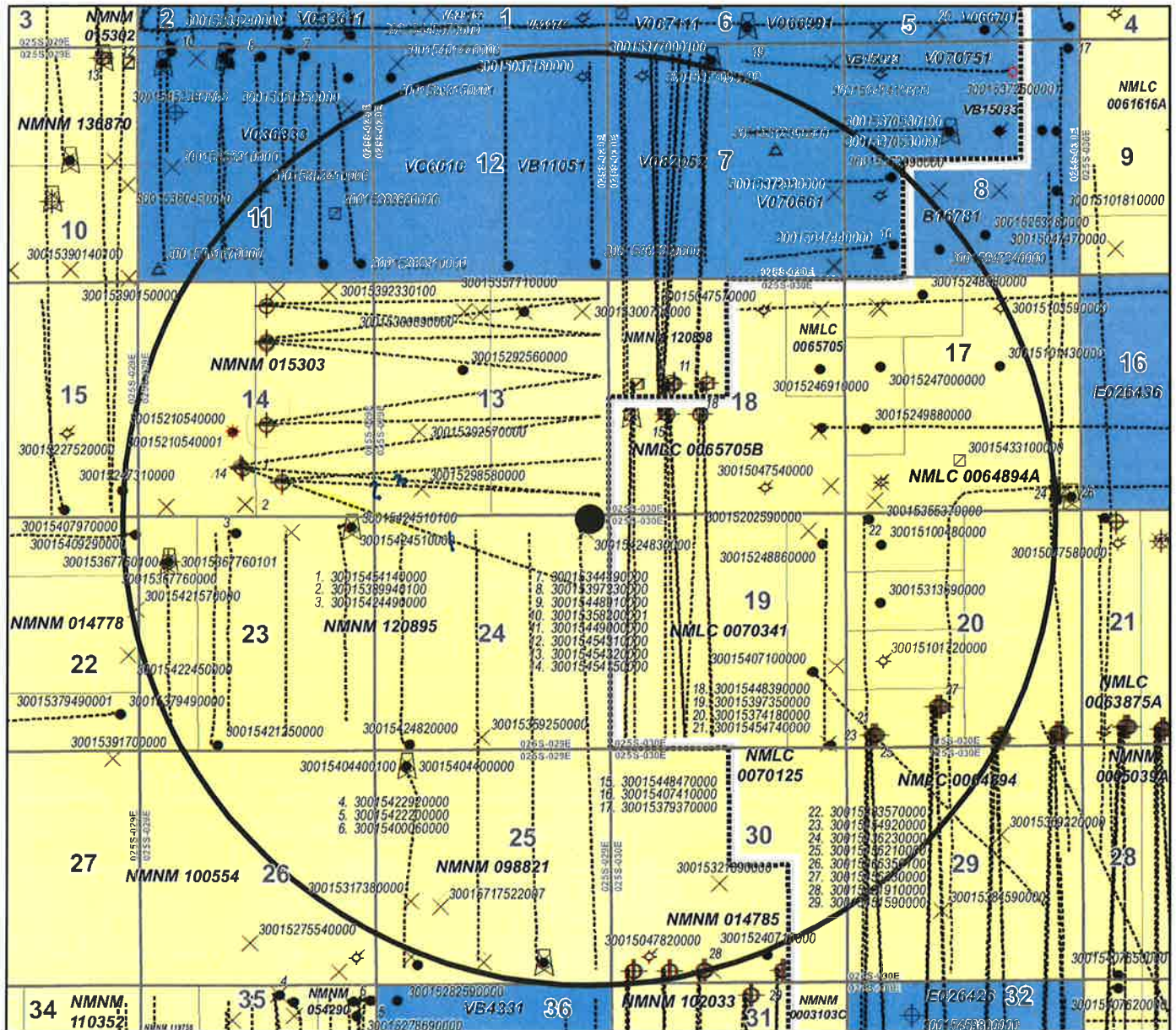
Peer Reviewed by: _____ Date

Reviewed by: _____

Approved by: _____

CC SR 24 Ribeye SWD 1 Eddy County, New Mexico

Exhibit A

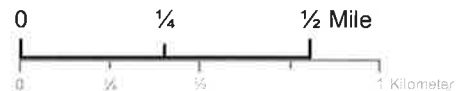
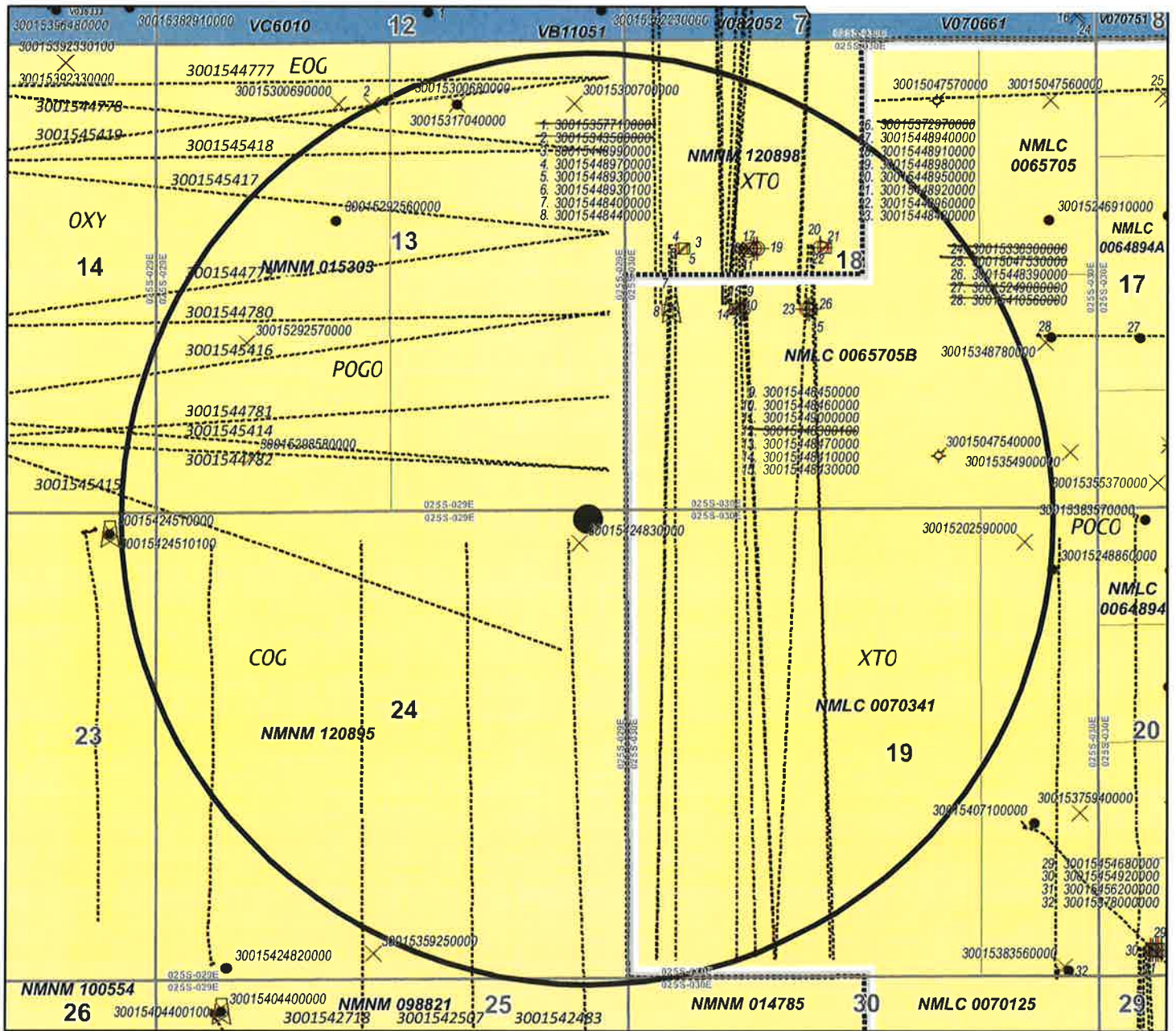


----- wellbore	Well Status Name	☐ NON-PRODUCING OTHER
State Lease	★ GAS	○ CO2
Federal Lease	⚡ INJECTION	☐ DRY
two mile buffer	⊙ MULTI OIL AND GAS PRODUCER	○ STORAGE
BLM Active Unit -	● OIL	☀ CBM
Poker Lake	★ OIL AND GAS PRODUCER	⚠ OTHER PRODUCING
	⊙ MULTIPLE GAS PRODUCER	⚡ WATER SUPPLY WELL
	⊙ MULTIPLE OIL PRODUCER	⊕ WELL PERMIT
	✕ ABANDONED	⊗ WELL START
	⚡ DRILLING	

known well operators in buffer	
ALAMO CORPORATION	LOWE RALPH L
BASS PERRY R	MARBOB ENERGY CORP
BENNETT J GLENN	MOBIL PRDUCNG TX&NM
BOPCO LP	OXY U S A INC
CALVIN F TENNISON	POCO RESOURCES LLC
CARPER DRLG CO	POGO PRODUCING CO
CHEVRON U S A INC	POOL FRED DRLG INC
COG OPERATING LLC	STEWRT J RAY
COG PROD LLC	WESTERN STATES PROD
ENDEAVOR ENERGY RES	XTO ENERGY INC
EOG RESOURCES INC	XTO PERMAN OPER LLC
GIANT OPERATING LLC	YATES DRILLING CO
HARVARD PET CO LLC	

CC SR 24 Ribeye SWD 1 Eddy County, New Mexico

Exhibit B



- wellbore
- State Lease
- Federal Lease
- one mile buffer
- BLM Active Unit - Poker Lake

Well Status Name

- GAS
- INJECTION
- MULTI OIL AND GAS PRODUCER
- OIL
- OIL AND GAS PRODUCER
- MULTIPLE GAS PRODUCER
- MULTIPLE OIL PRODUCER
- ABANDONED
- DRILLING

- NON-PRODUCING OTHER
- CO2
- DRY
- STORAGE
- CBM
- OTHER PRODUCING
- WATER SUPPLY WELL
- WELL PERMIT
- WELL START

known well operators in buffer

- ALAMO CORPORATION
- OXY U S A INC
- POGO PRODUCING CO
- WESTERN STATES PROD
- XTO ENERGY INC
- XTO PERMAN OPER LLC

CC SR 24 Ribeye SWD 1

Wells within a 1 mile radius

API	Wellname	Sec	Twn	Rng	Unit Ltr	Operator	Pool	Well Status
30-015-44886	POKER LAKE #065	19	25S	30E	A	POCO Resources LLC	[13360] CORRAL CANYON, DELAWARE	Active
30-015-29256	BRADLY 13 FEDERAL #001	13	25S	29E	F	OXY USA INC	[13365] CORRAL CANYON, DELAWARE, WEST	Active
30-015-31704	BRADLY 13 FEDERAL #004Q	13	25S	29E	B	OXY USA INC	[13365] CORRAL CANYON, DELAWARE, WEST	Active
30-015-29858	BRADLY 13 FEDERAL #003	13	25S	29E	M	POGO PRODUCING CO	No Data	Cancelled APD
30-015-30068	BRADLY 13 FEDERAL #004	13	25S	29E	B	POGO PRODUCING CO	No Data	Cancelled APD
30-015-30070	BRADLY 13 FEDERAL #006	13	25S	29E	A	POGO PRODUCING CO	No Data	Cancelled APD
30-015-44838	MUY WAYNO 18 FEDERAL #102H	18	25S	30E	3	XTO ENERGY, INC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44839	MUY WAYNO 18 FEDERAL #104H	18	25S	30E	3	XTO ENERGY, INC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44840	MUY WAYNO 18 FEDERAL #121H	18	25S	30E	3	XTO ENERGY, INC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44841	MUY WAYNO 18 FEDERAL #122H	18	25S	30E	3	XTO ENERGY, INC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44842	MUY WAYNO 18 FEDERAL #123H	18	25S	30E	K	XTO ENERGY, INC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44843	MUY WAYNO 18 FEDERAL #124H	18	25S	30E	K	XTO ENERGY, INC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44844	MUY WAYNO 18 FEDERAL #161H	18	25S	30E	3	XTO ENERGY, INC	[96473] PIERCE CROSSING, BONE SPRING, EAST; [98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44845	MUY WAYNO 18 FEDERAL #703H	18	25S	30E	3	XTO ENERGY, INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-44846	MUY WAYNO 18 FEDERAL #103H	18	25S	30E	3	XTO ENERGY, INC	[96473] PIERCE CROSSING, BONE SPRING, EAST; [98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44847	MUY WAYNO 18 FEDERAL #903H	18	25S	30E	3	XTO ENERGY, INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-44891	POKER LAKE UNIT 18 BD #103H	18	25S	30E	2	XTO PERMIAN OPERATING LLC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44892	POKER LAKE UNIT 18 BD #104H	18	25S	30E	F	XTO PERMIAN OPERATING LLC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44893	POKER LAKE UNIT 18 BD #121H	18	25S	30E	2	XTO PERMIAN OPERATING LLC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44894	POKER LAKE UNIT 18 BD #122H	18	25S	30E	2	XTO PERMIAN OPERATING LLC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44895	POKER LAKE UNIT 18 BD #123H	18	25S	30E	F	XTO PERMIAN OPERATING LLC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44896	POKER LAKE UNIT 18 BD #124H	18	25S	30E	F	XTO PERMIAN OPERATING LLC	[98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44897	POKER LAKE UNIT 18 BD #161H	18	25S	30E	2	XTO PERMIAN OPERATING LLC	[96473] PIERCE CROSSING, BONE SPRING, EAST; [98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44898	POKER LAKE UNIT 18 BD #703H	18	25S	30E	F	XTO PERMIAN OPERATING LLC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-44899	POKER LAKE UNIT 18 BD #101H	18	25S	30E	2	XTO PERMIAN OPERATING LLC	[96473] PIERCE CROSSING, BONE SPRING, EAST; [98220] PURPLE SAGE, WOLFCAMP (GAS)	New (Not Drilled/Completed)
30-015-44900	POKER LAKE UNIT 18 BRUSHY DRAW #903H	18	25S	30E	2	XTO PERMIAN OPERATING LLC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-04754	Poker Lake Unit A-9 #12	18	25S	30E	O	ALAMO CORPORATION	SAGE, WOLFCAMP (GAS)	Plugged [Site Released]
30-015-20259	POKER LAKE UIT #38	19	25S	30E	A	WESTERN STATES PRODUCING CO	WILDCAT	Plugged [Site Released]
30-015-29257	BRADLY 13 FEDERAL #002	13	25S	29E	L	POGO PRODUCING CO	[13365] CORRAL CANYON, DELAWARE, WEST	Plugged [Site Released]

Wells that terminate within the 1 mile radius

API	Wellname	Sec	Twn	Rng	Unit Ltr	Operator	Pool	Well Status
30-015-42483	CABO WABO 25 FEDERAL COM #004H	25	25S	29E	P	COG OPERATING LLC	[96238] CORRAL DRAW, BONE SPRING	New (Not Drilled/Completed)
30-015-42507	CABO WABO 25 FEDERAL COM #003H	25	25S	29E	O	COG PRODUCTION, LLC	[96217] WILLOW LAKE, BONE SPRING, SOUTHEAST	Active
30-015-42718	CABO WABO 25 FEDERAL COM #002H	25	25S	29E	N	COG PRODUCTION, LLC	[96217] WILLOW LAKE, BONE SPRING, SOUTHEAST	New (Not Drilled/Completed)
30-015-44777	CORRAL DRAW 14 13 FEDERAL #021H	14	25S	29E	B	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-44778	CORRAL DRAW 14 13 FEDERAL #022H	14	25S	29E	B	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-44779	CORRAL DRAW 14 13 FEDERAL #023H	14	25S	29E	J	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-44780	CORRAL DRAW 14 13 FEDERAL #024H	14	25S	29E	J	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-44781	CORRAL DRAW 14 13 FEDERAL #025H	14	25S	29E	O	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-44782	CORRAL DRAW 14 13 FEDERAL #026H	14	25S	29E	O	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-45414	CORRAL DRAW 14 13 FEDERAL #036H	14	25S	29E	N	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-45415	CORRAL DRAW 14 13 FEDERAL #035H	14	25S	29E	N	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-45416	CORRAL DRAW 14 13 FEDERAL #034H	14	25S	29E	N	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-45417	CORRAL DRAW 14 13 FEDERAL #033H	14	25S	29E	G	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-45418	CORRAL DRAW 14 13 FEDERAL #032H	14	25S	29E	B	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)
30-015-45419	CORRAL DRAW 14 13 FEDERAL #031H	14	25S	29E	B	OXY USA INC	[96473] PIERCE CROSSING, BONE SPRING, EAST	New (Not Drilled/Completed)

Complete Water Analysis ReportCustomer: **XTO ENERGY INC**Region: **Loving, NM**Location: **Golden Child**System: **H2O Discharge**Equipment: **GOLDENCHILD 6 STATE 1SWD**Sample Point: **Transfer Pump**Sample ID: **AM70640**Acct Rep Email: **gregory.oswood@ecolab.com**Collection Date: **03/18/2019**Receive Date: **04/03/2019**Report Date: **04/04/2019**Location Code: **326879****Field Analysis**

Bicarbonate	122 mg/L	Dissolved CO2	40 mg/L	Dissolved H2S	0 mg/L
Pressure Surface	250 psi	Temperature	70 ° F	pH of Water	5.7
Oil per Day	0 B/D	Gas per Day	0 Mcf/D	Water per Day	15000 B/D

Sample Analysis

Calculated Gaseous CO2	9.64 %	Calculated pH	5.70	Conductivity (Calculated)	217091 µS - cm3
Ionic Strength	2.66	Resistivity	0.046 ohms - m	Specific Gravity	1.102
Total Dissolved Solids	140592 mg/L				

Cations

Iron	21.1 mg/L	Manganese	0.912 mg/L	Barium	1.33 mg/L
Strontium	651 mg/L	Calcium	7340 mg/L	Magnesium	1050 mg/L
Sodium	46800.00 mg/L	Potassium	786 mg/L	Boron	53.4 mg/L
Copper	0.002 mg/L	Nickel	0.026 mg/L	Zinc	0.142 mg/L
Lead	0.096 mg/L	Cobalt	0.029 mg/L	Chromium	0.009 mg/L
Silicon	9.47 mg/L	Aluminum	Not Detected mg/L	Molybdenum	0.009 mg/L
Phosphorus	0.152 mg/L				

Anions

Bromide	782.805 mg/L	Chloride	82478 mg/L	Sulfate	495.263 mg/L
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PTB Value

	Barite PTB	Calcite PTB	Celestite PTB	Gypsum PTB	Halite PTB	Iron Carbonate PTB	Iron Sulfide PTB
50°	0.62	0.00	54.19	0.00	0.00	0.00	0.00
75°	0.49	0.00	54.81	0.00	0.00	0.00	0.00
100°	0.31	0.00	64.02	0.00	0.00	0.00	0.00
125°	0.07	0.00	78.03	0.00	0.00	0.00	0.00
150°	0.00	0.00	94.50	0.00	0.00	0.00	0.00
175°	0.00	3.24	111.77	0.00	0.00	0.00	0.00
200°	0.00	6.51	128.70	0.00	0.00	0.00	0.00
225°	0.00	9.89	144.65	0.00	0.00	0.00	0.00
250°	0.00	12.72	159.31	0.00	0.00	0.00	0.00
275°	0.00	15.55	172.59	0.00	0.00	0.00	0.00
300°	0.00	18.12	184.55	0.00	0.00	0.00	0.00
325°	0.00	20.43	195.36	0.00	0.00	0.00	0.00
350°	0.00	22.45	205.13	0.00	0.00	0.00	0.00
375°	0.00	24.19	213.92	0.00	0.00	0.00	0.00
400°	0.00	25.65	221.64	0.00	0.00	0.00	0.00

Saturation Index

	Barite SI	Calcite SI	Celestite SI	Gypsum SI	Halite SI	Iron Carbonate SI
50°	0.66	-0.34	0.13	-0.48	-1.15	-1.57
75°	0.42	-0.27	0.13	-0.50	-1.17	-1.40
100°	0.21	-0.19	0.16	-0.51	-1.19	-1.23
125°	0.04	-0.10	0.19	-0.50	-1.20	-1.08
150°	-0.10	0.00	0.24	-0.50	-1.20	-0.93
175°	-0.22	0.11	0.29	-0.51	-1.21	-0.80
200°	-0.32	0.22	0.29	-0.53	-1.21	-0.67
225°	-0.41	0.34	0.40	-0.57	-1.22	-0.56
250°	-0.48	0.47	0.46	-0.62	-1.22	-0.45
275°	-0.56	0.60	0.51	-0.66	-1.22	-0.36
300°	-0.62	0.74	0.56	-0.70	-1.21	-0.28
325°	-0.69	0.88	0.61	-0.71	-1.21	-0.22
350°	-0.76	1.01	0.66	-0.67	-1.20	-0.17
375°	-0.84	1.14	0.71	-0.57	-1.19	-0.14
400°	-0.93	1.27	0.75	-0.37	-1.18	-0.13

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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05/21/2019

Page 1 of 2

Customer: XTO ENERGY INC

Region: Loving, NM

Location: Golden Child

System: H2O Discharge

Equipment: GOLDENCHILD 6 STATE 1SWD

Sample Point: Transfer Pump

Sample ID: AM70640

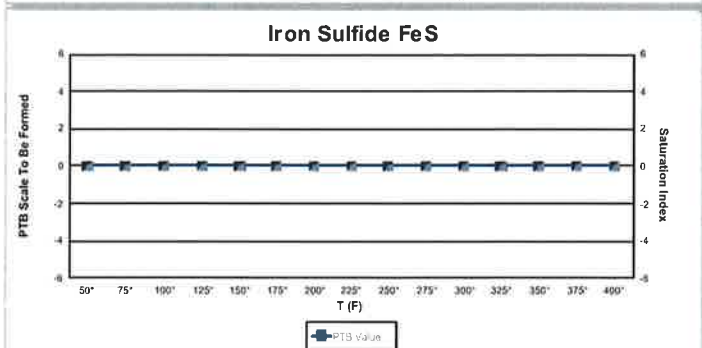
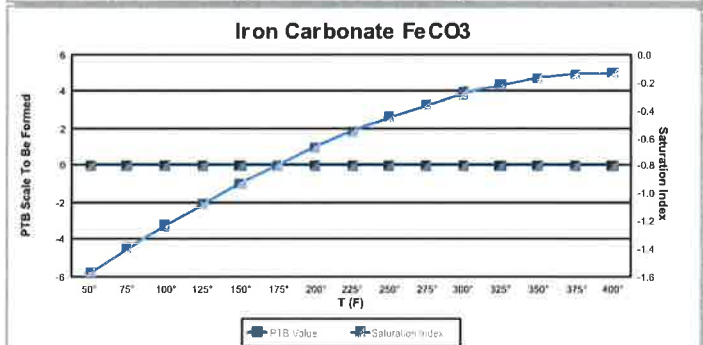
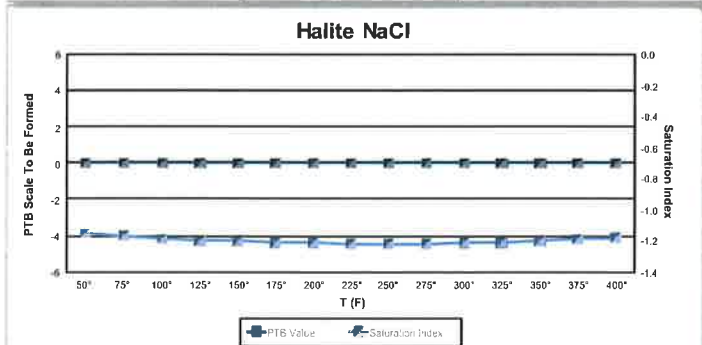
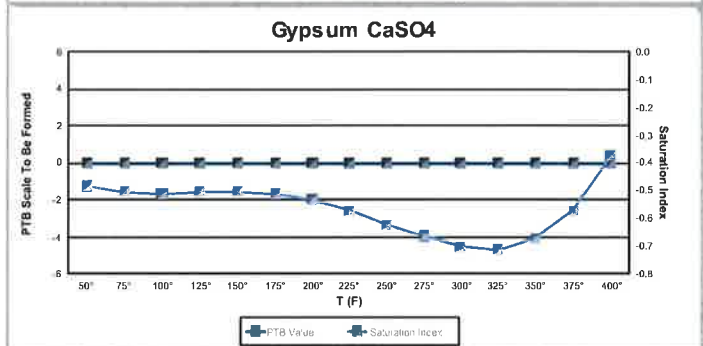
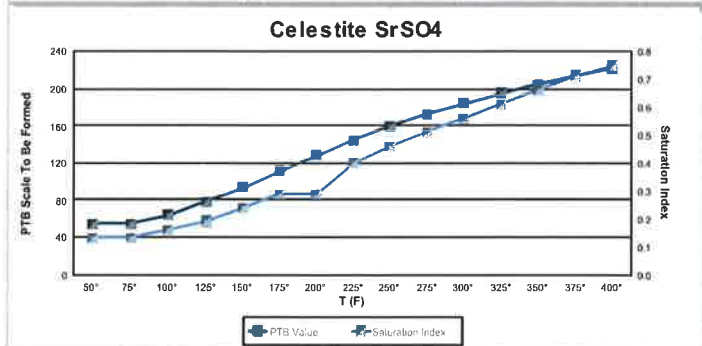
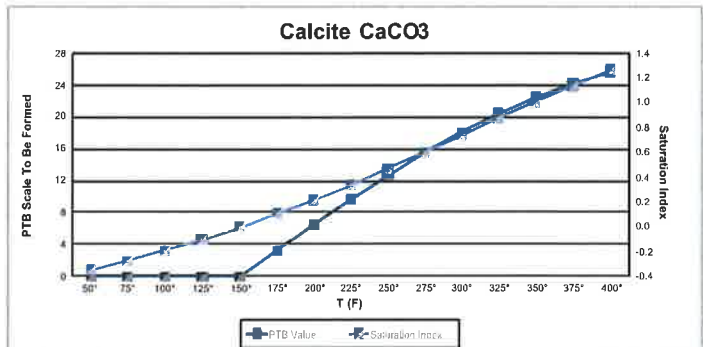
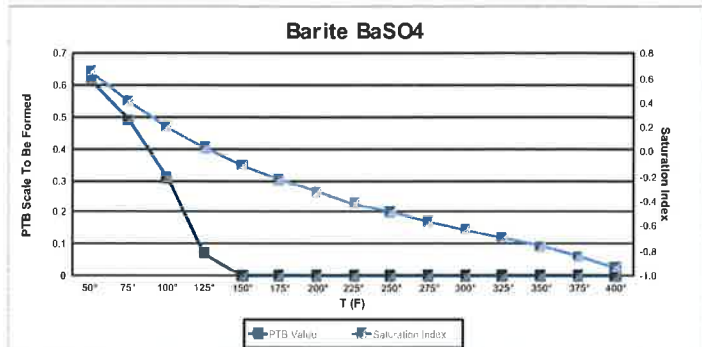
Acct Rep Email: gregory.oswood@ecolab.com

Collection Date: 03/18/2019

Receive Date: 04/03/2019

Report Date: 04/04/2019

Location Code: 326879



Comments

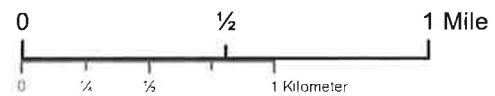
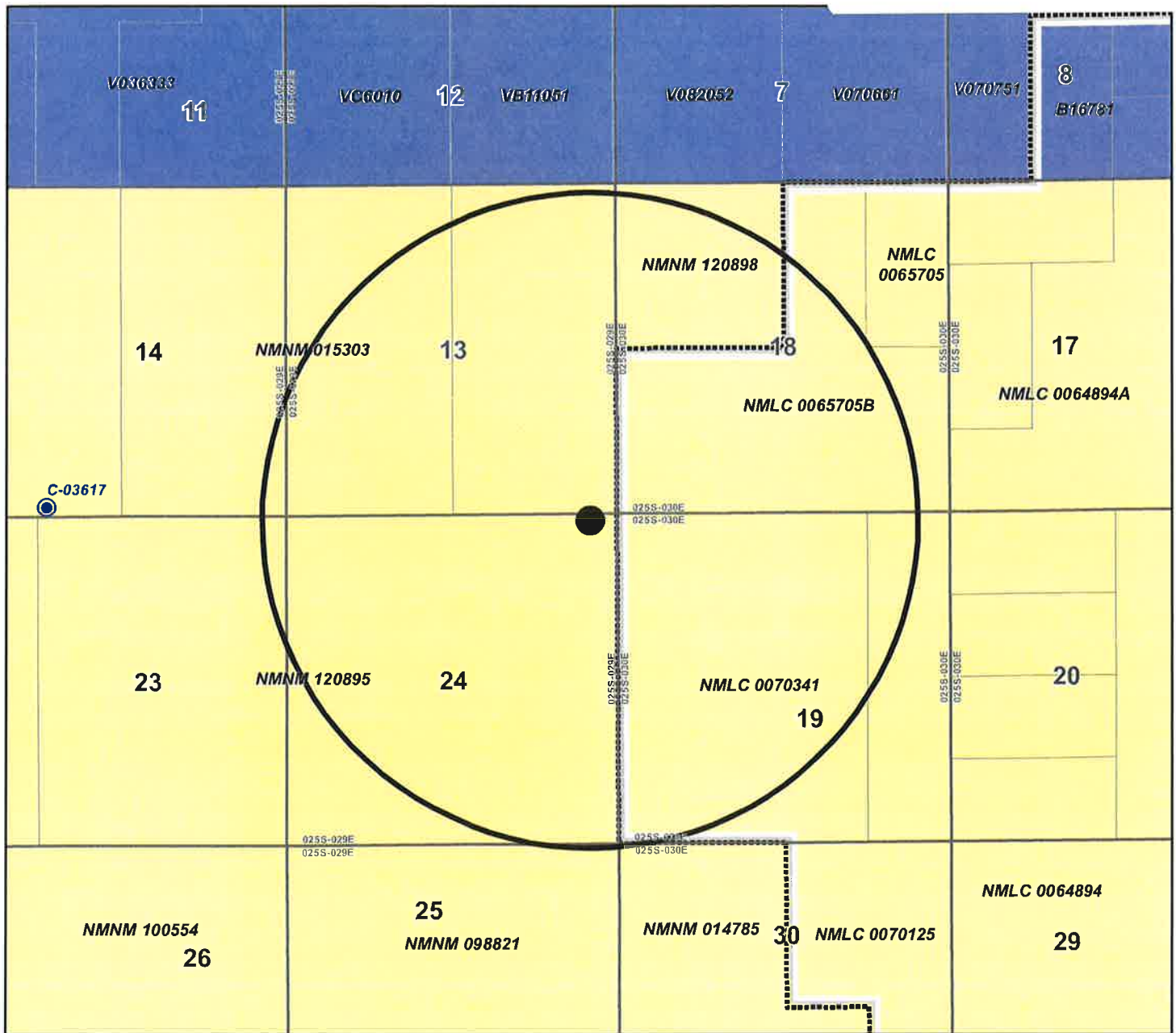
Scaling predictions calculated using Scale Soft Pitzer 2017

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

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CC SR 24 Ribeye SWD 1 Eddy County, New Mexico

Exhibit E



- water well
- location
- surface declaration
- surface permit
- State Lease
- Federal Lease
- one mile buffer
- BLM Active Unit -
Poker Lake

CERTIFIED MAILING LIST
XTO Energy
CC SR Ribeye SWD #1

Exhibit G
1 of 2

SURFACE OWNER:

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

Certified #7013 1710 0001 1160 4838

OFFSET OPERATOR NOTIFICATIONS:

OXY USA Inc
PO Box 4294
Houston, TX 77210-4294

Certified #7013 1710 0001 1160 4852

COG Operating, LLC
PO Box 2064
Midland, TX 79702

Certified #7013 1710 0001 1160 4876

EOG Resources, Inc
PO Box 2267
Midland, TX 79702

Certified #7013 1710 0001 1160 4845

Atlantic Operating, Inc.
PO Box 3759
Midland, TX 79702

Certified #7018 1130 0001 5531 4869

POCO Resources LLC
3307 E Castleberry Rd
Artesia, NM 88210

Certified #7013 1710 0001 1160 4883

GRAZING LEASEE:

HENRY MCDONALD OR
DRAPER BRANTLEY JR.
PO BOX 597
LOVING, NM 88256

Certified #7013 1710 0001 1160 4890

I, Cheryl Rowell, do hereby certify a copy of XTO Energy's application for salt water disposal for the CC SR 26 Salisbury SWD #1 was sent on this date to the surface owner and offset operator(s) listed, via certified mail.

Signed:


Cheryl Rowell

Title: Regulatory Coordinator

Date:

6/26/19

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001289667

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

11/9/22
My Commission Expires



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

XTO Energy, Inc. has applied to the New Mexico Oil Conservation Division for a permit 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 **CC SR 24 Ribeye SWD #1** (Siluro-Devonian and Fusselman Formations). The maximum injection pressure will be 3,212 psi and the maximum rate will be 40,000 bbls. produced water per day. The proposed disposal well is located approximately 11 miles Southeast of Malaga, New Mexico in Section 24, T25S, R29E, 110' FNL & 419' FEL, Eddy County, New Mexico. The produced water will be disposed at a subsurface depth of 16,059'-17,186'. Any questions concerning this application should be directed to Cheryl Rowell, Regulatory Coordinator, XTO Energy, Inc, 6401 Holiday Hill Rd, Bldg 5, Midland, Texas 79707, (432) 571-8205.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 S. St. Francis Dr., Santa Fe, New Mexico 87505 within 15 days.

Published: June 26, 2019

Ad#:0001289667
P O : CC SR 24 Ribeye SWD #1
of Affidavits :0.00

Exhibit G
2 of 2

Exhibit F

June 21, 2019

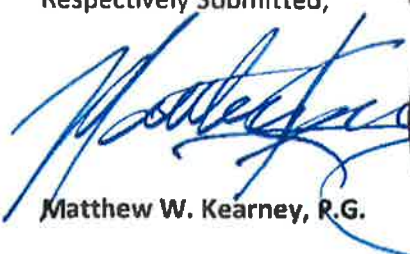
New Mexico, Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Geology Statement per Question XII on the Application for Authorization to Inject Form C-108 for
XTO Energy Inc., an ExxonMobil subsidiary
CC SR 24 Ribeye SWD 1,
Section 24, Township 25 South, Range 29 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 110 feet from north line and 419 feet from east line of Section 24, Township 25 South, Range 29 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, R.G.



Geoscientist Geologist

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



Statements Regarding Seismicity

XTO has performed a seismicity risk assessment associated with the proposed CC SR 24 Ribeye 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 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

CC SR 24 Ribeye SWD Well - Historic Seismicity

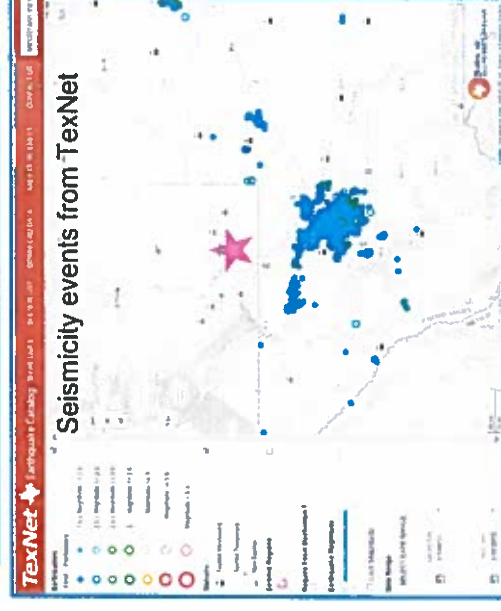
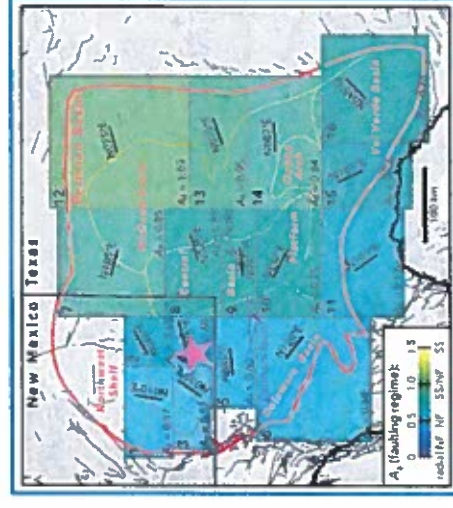
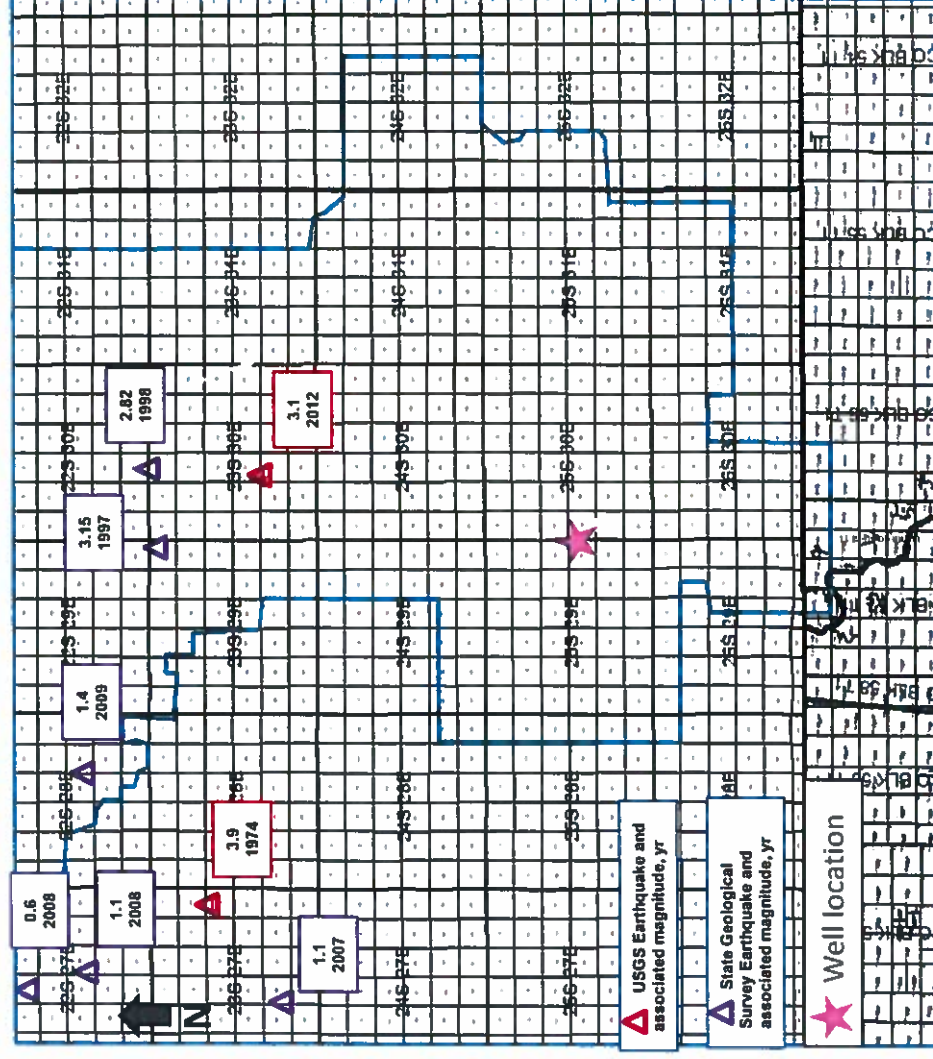
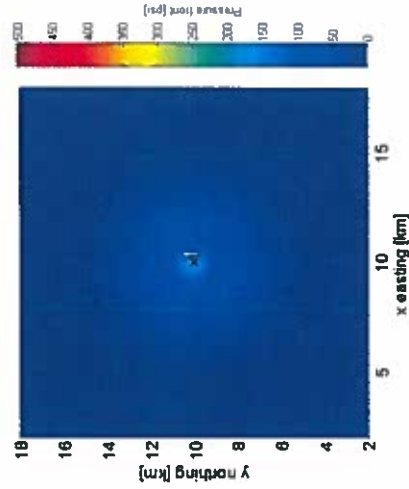
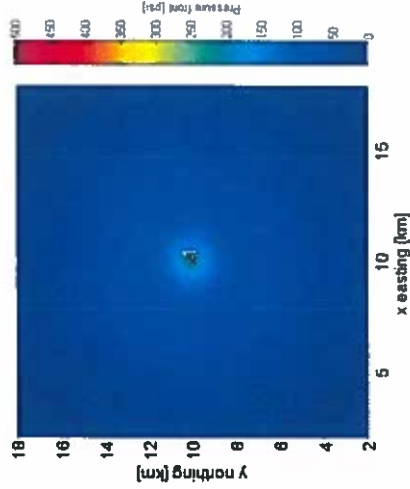


Figure 1

CC SR 24 Ribeye SWD Well – Pore Pressure



2025 Snapshot



2040 Snapshot

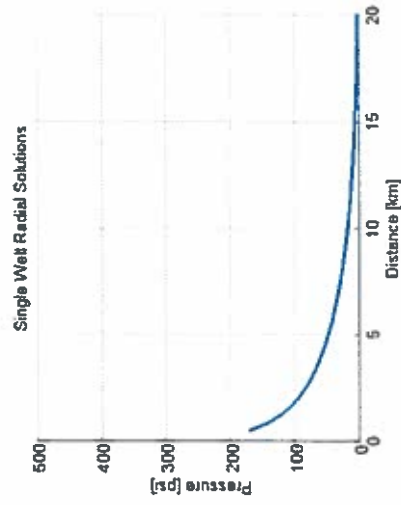
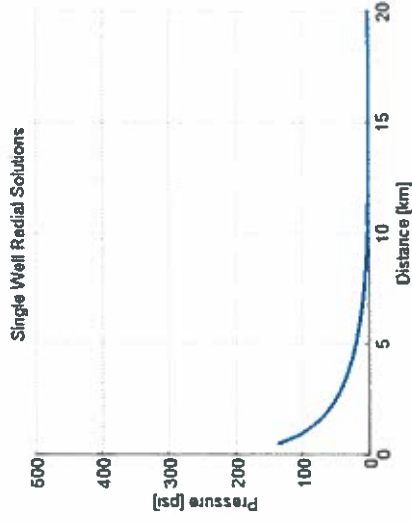


Figure 2