

Initial Application Part I

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

RECEIVED: <u>05/29/2019</u>	REVIEWER:	TYPE: <u>SWD</u>	APP NO: <u>DMAM/9156 57846</u>
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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: <u>XTO Energy, Inc</u>	OGRID Number: <u>005380</u>
Well Name: <u>CC SR 26 Salisbury SWD</u>	API: <u>TBA</u>
Pool: <u>Devonian; SWD</u>	Pool Code: <u>96101</u>

**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
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 Coordinator

Print or Type Name

Date 05/29/19

432-571-8220

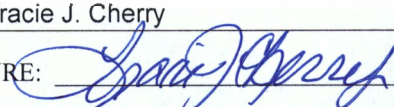
Phone Number

tracie_cherry@xtoenergy.com

e-mail Address

Signature

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: XTO Permian Operating, LLC (373075)
ADDRESS: 6401 Holiday Hill Rd. Bldg 5, Midland, TX 79707
CONTACT PARTY: Tracie J. Cherry 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? Yes X 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: 05/29/19
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: _____

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 26 Salisbury SWD
Well #: 1 API # TBA
Section: 26
Township: 25S
Range: 29E
Footage: 2396 FSL & 1307 FEL

2) Casing Info:

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
18-5/8", 87.5# J-55 BTC	600'	1240 sx C	24	Surf	Circ
13-3/8" 68# HCL-80 BTC	3100'	2020 sx Poz/C	17-1/2"	Surf	Circ
		685 sx C			
9-5/8" 53.5# HCP-110 BTC	10,910'	2345 sx Poz/H	12-1/4"	2500	CBL
7" 32# HCP-110 BTC	10,500'-15,612'	755 sx Poz/H	8-1/2"	10,500'	Circ

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

Tapered String

5-1/2" , 17#, P-110 IPC to 10,000"

4-1/2", 13.65#, P-110 IPC tubing @ 10,000'-15,512'

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

Baker Series F nickle plated permanent packer @ 15,512'

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, 15,612'-16,700' (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 SWD; Devonian
⁴ Property Code	⁵ Property Name CC SR 26 SALISBURY SWD	⁶ Well Number 1
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,040'

¹⁰ Surface Location

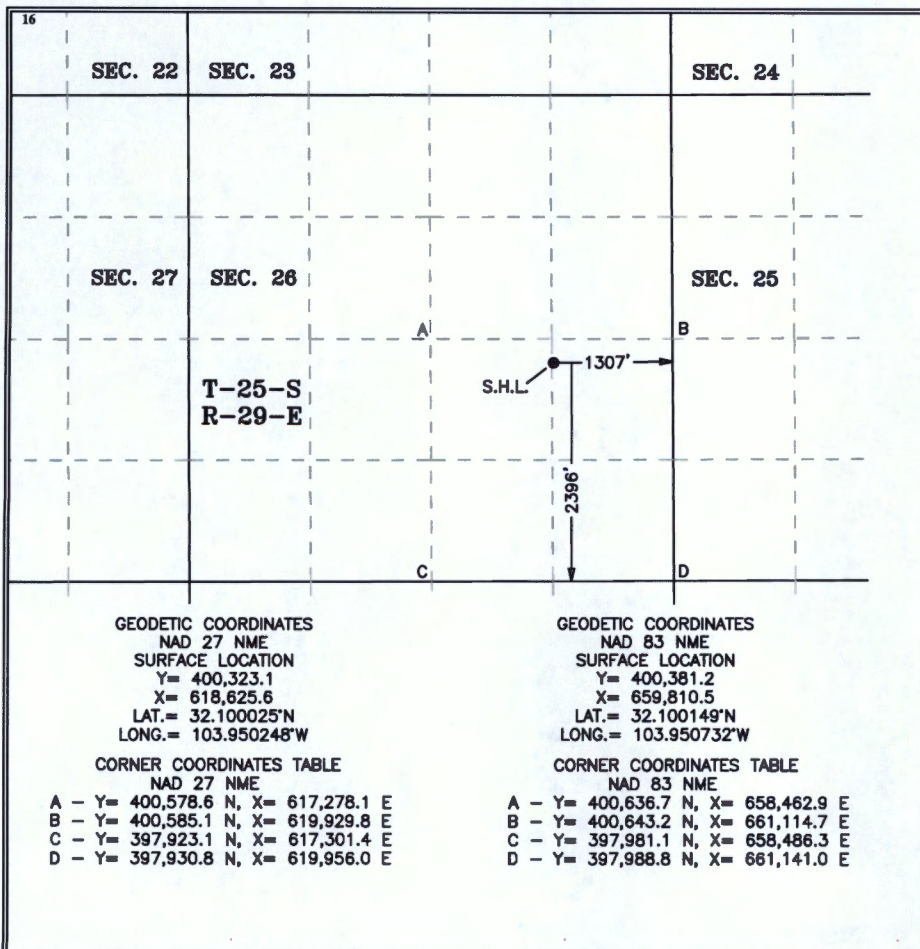
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	26	25 S	29 E		2,396	SOUTH	1,307	EAST	EDDY

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 0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



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.

Stephanie Rabadue 01/02/2019

Signature

Date

Stephanie Rabadue

Printed Name

stephanie_rabadue@xtoenergy.com

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.

01-02-2019

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786

Certificate Number

TM

2018112623

Corral Canyon SR 26 Salisbury SWD #1

Proposed SWD Schematic (Aug 28, 2018)

County: Eddy
SHL: 2396' FSL, 1307' FEL
Sec 26, T 25S, R 29E

BHL: 2396' FSL, 1307' FEL
Sec 26, T 25S, R 29E



AFE #
XTO ID # N/A
API # N/A
Elevation GL 3040', KB 3072' (32' AGL)
Rig: TBD (RKB 32')

Geology	Casing & Cement	Wellhead	Hole Size	General Notes
(Tech Data Sheet)				
TVD Formation			24"	
412' Rustler Top				
532' Rustler Base	<u>Tail (100% OH excess)</u> 1240 sx 14.8ppg Class C Top of Tail @ 0'			
	18-5/8" 87.5# J-55 BTC	600' MD		
2,410' Top Salt	<u>Lead (150% OH excess)</u> 2020 sx 12.8ppg Poz/C Top of Lead @ 0		17-1/2"	
	<u>Tail (100% OH excess)</u> 685 sx 14.8ppg Class C Top of Tail @ 2500'			
3,027' Base Salt	13-3/8" 68# HCL-80 BTC	3100' MD		
3,222' Delaware	<u>Lead (100% OH excess)</u> 1785 sx 11.5ppg Poz/H Top of Lead @ 2500'		12-1/4"	
			5-1/2", 17#, P-110 IPC tbg to 10,000'	
7,012' Bone Spring	<u>Tail (100% OH excess)</u> 560 sx 14.8ppg Poz/H Top of Tail @ 9910'	10500' MD		Crossover 10,000'
			4-1/2", 13.65#, P-110 IPC tbg 10,000'-15,512'	
10,222' Wolfcamp				
10,707' Wolfcamp B	9-5/8" 53.5# P-110 BTC	10910' MD		
			8-1/2"	
12,742' Strawn				
12,987' Atoka	<u>Tail (100% OH excess)</u> 755 sx 14.5ppg Poz/H Top of Tail @ 10500'			
13,477' Morrow				
15,270' Mississippian Lm				
15,447' Woodford	7" 32# P-110 BTC	15612' MD		Baker Series F nickel plated permanent packer @ 15,512'
15,592' Devonian				
			6"	
16,380' Fusselman	Open hole completion	16,700' MD		
		16,700' TVD		
16,700' TVD at BHL				
Approvals				
Prepared by: _____	Peer Reviewed by: _____ Date _____			
Reviewed by: _____	Approved by: _____			

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)

Sixteen (16) horizontal wells terminate within the one-mile Area of Review. None of the wells penetrates the proposed disposal zone.

Five (5) plugged and abandoned wells are within the one-mile Area of Review. None of the wells penetrates the proposed disposal zone.

- 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, 3122 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: Carbonate (Dolomites and Limestones)

Geological Name: Devonian to Fusselman

Thickness: Est. 1,290'

Depth: Est. 15,592'/16,882'

The Dewey Lake Red Beds consists of alluvial siltstones, shales and sandstones which are present at the surface to the top of the Rustler Anhydrite. The top of the Rustler Anhydrite is estimated to be at 358 feet below the surface in this proposed CC SR 26 Salisbury 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

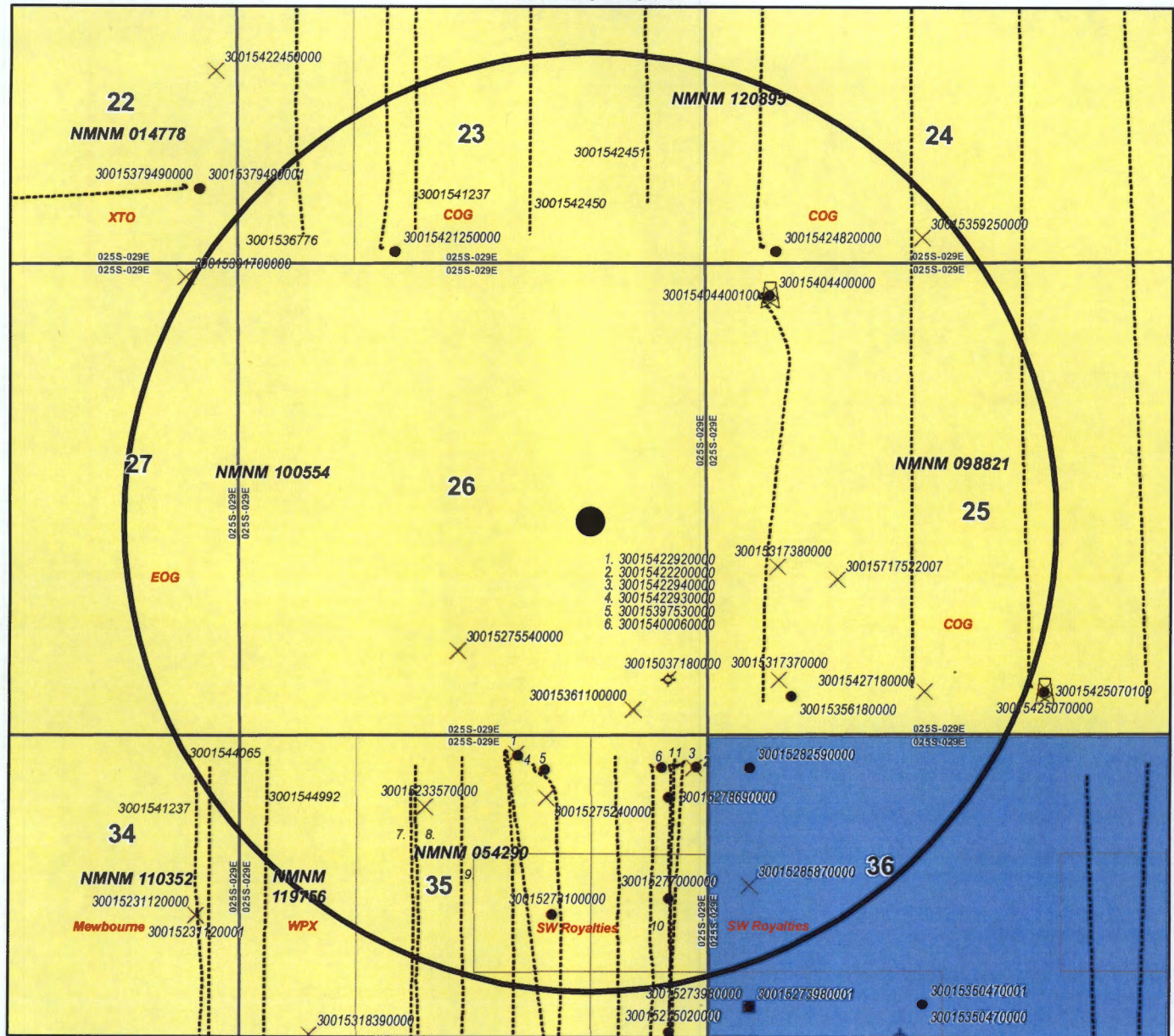
No sources of fresh water are known to exist below the proposed disposal zone.

- 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)

Coral Canyon 26 Salisbury SWD 1

Eddy County, New Mexico

One Mile AOR



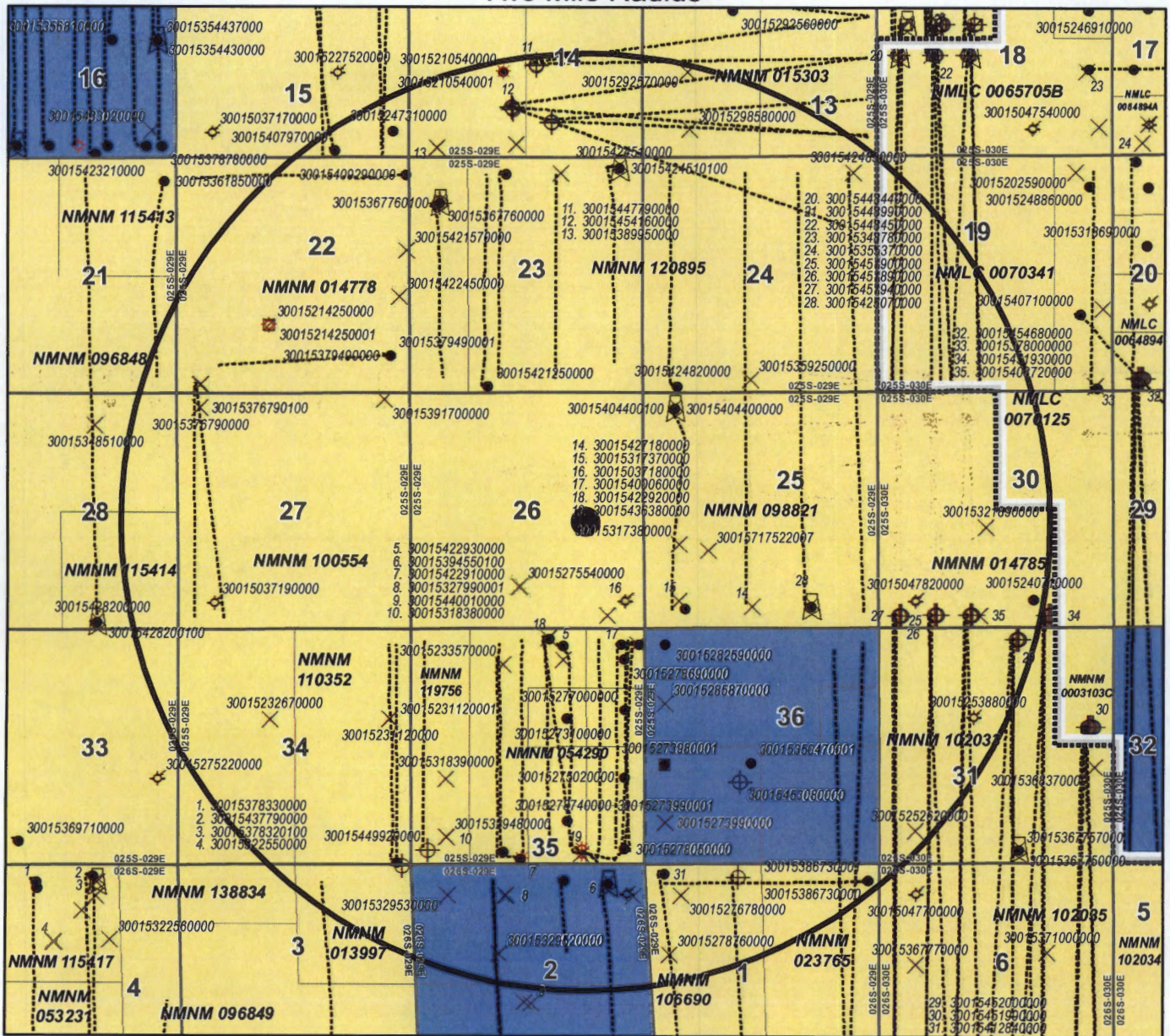
7. 3001542290
8. 3001540185
9. 3001542291
10. 3001543638
11. 3001543603



----- wellbore	Well Status Name	☒ NON-PRODUCING OTHER
 State Lease	GAS	☐ CO2
 Federal Lease	INJECTION	☐ DRY
 one mile buffer	MULTI OIL AND GAS PRODUCER	☐ STORAGE
	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 operators in buffer
 BENNETT J GLENN
 COG PROD LLC
 EOG RESOURCES INC
 SOUTHWEST ROYALTIES
 WPX ENERGY PERMAN
 YATES PETROLEUM CORP

Coral Canyon 26 Salisbury SWD 1 Eddy County, New Mexico Two Mile Radius



- wellbore
- State Lease
- Federal Lease
- two 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

BENNETT J GLENN
BETTIS BOYLEASTOVALL
BOPCO LP
BROWN TOM INC
CHESAPEAKE OPERG INC
COG PROD LLC
ENDEAVOR ENERGY RES
EOG RESOURCES INC
INXCO OIL CO
MEWBOURNE OIL CO
MOBIL PRODUCING TX&NM
OGX RESOURCES LLC
OXY U S A INC
POGO PRODUCING CO
RHYMES DRUG CO INC
RKI EXP & PROD LLC
SOUTHWEST ROYALTIES
UNITED PET CORP
WPX ENERGY PERMAN
XTO ENERGY INC
YATES DRILLING CO
YATES PETROLEUM CORP

WELLS WITHIN 1-MILE RADIUS

API	Well Name	Sec	TWN	RNG	Unit Ltr	Operator	Pool	Well Status
30-015-03718	Superior Federal #001		26 25S	29E	P	J. Glen Bennett	Wilcat	Plugged (Site Released)
30-015-23357	Bison Wallow Unit #003		35 25S	29E	C	Inexco Oil Company	No Data	Cancelled APD
30-015-27310	NORTH BRUSHY DRAW 35 FEDERAL #001		35 25S	29E	G	SOUTHWEST ROYALTIES INC	[8085] BRUSHY DRAW, DELAWARE, NORTH	Active
30-015-27524	N BRUSHY DRAW A 35 FEDERAL #005		35 25S	29E	B	SOUTHWEST ROYALTIES INC	No Data	Cancelled APD
30-015-27554	CORRAL FED UT #002		26 25S	29E	N	EOG Y RESOURCES, INC.	[8085] BRUSHY DRAW, DELAWARE, NORTH	Plugged (Site Released)
30-015-27700	N BRUSHY DRAW A 35 FEDERAL #007		35 25S	29E	H	SOUTHWEST ROYALTIES INC	[8085] BRUSHY DRAW, DELAWARE, NORTH	Active
30-015-27869	N BRUSHY DRAW A 35 FEDERAL #006		35 25S	29E	A	SOUTHWEST ROYALTIES INC	[8085] BRUSHY DRAW, DELAWARE, NORTH	Active
30-015-28259	DUNES 36 STATE #001		36 25S	29E	D	SOUTHWEST ROYALTIES INC	[8085] BRUSHY DRAW, DELAWARE, NORTH	Active
30-015-28587	DUNES A 36 STATE #002		36 25S	29E	E	SOUTHWEST ROYALTIES INC	[8085] BRUSHY DRAW, DELAWARE, NORTH	Plugged (Site Released)
30-015-31737	TESUQUE 25 FEDERAL #001		25 25S	29E	M	DEVON ENERGY PRODUCTION COMPANY, LP	No Data	Cancelled APD
30-015-31738	TESUQUE 25 FEDERAL #002		25 25S	29E	L	DEVON ENERGY PRODUCTION COMPANY, LP	No Data	Cancelled APD
30-015-35618	25 FEDERAL #001		25 25S	29E	M	COG PRODUCTION, LLC	[8085] BRUSHY DRAW, DELAWARE, NORTH	Active
30-015-35925	24 FEDERAL #001		24 25S	29E	N	ATLANTIC OPERATING, INC.	[8085] BRUSHY DRAW, DELAWARE, NORTH	New (Not Drilled/Completed)
30-015-36110	NORTH BRUSHY 26 FEDERAL #001		26 25S	29E	P	EOG RESOURCES INC	[8085] BRUSHY DRAW, DELAWARE, NORTH	Plugged (Site Released)
30-015-39753	NORTH BRUSHY DRAW FEDERAL 35 #001H		35 25S	29E	B	WPX Energy Permian, LLC	[13354] CORRAL CANYON, BONE SPRING, SOUTH	Active
30-015-40006	NORTH BRUSHY DRAW FEDERAL 35 #002H		35 25S	29E	A	WPX Energy Permian, LLC	[13354] CORRAL CANYON, BONE SPRING, SOUTH	Active
30-015-40440	CABO WABO 25 FEDERAL #001H		25 25S	29E	D	COG PRODUCTION, LLC	[96217] WILLOW LAKE, BONE SPRING, SOUTHEAST	Active
30-015-42125	EL JIMADOR FEDERAL #003H		25 25S	29E	N	COG PRODUCTION, LLC	[13365] CORRAL CANYON, DELAWARE, WEST	Active
30-015-42220	NORTH BRUSHY DRAW FEDERAL 35 #009H		35 25S	29E	A	WPX Energy Permian, LLC	[13354] CORRAL CANYON, BONE SPRING, SOUTH	Active
30-015-42292	NORTH BRUSHY DRAW FEDERAL 35 #007H		35 25S	29E	B	WPX Energy Permian, LLC	[13354] CORRAL CANYON, BONE SPRING, SOUTH; [72897] BRUSHY DRAW, WOLF CAMP (GAS) (ABOLISH; [98220] PURPLE SAGE, WOLF CAMP (GAS)	New (Not Drilled/Completed)
30-015-42293	NORTH BRUSHY DRAW FEDERAL 35 #006H		35 25S	29E	B	WPX Energy Permian, LLC	[13354] CORRAL CANYON, BONE SPRING, SOUTH; [98145] WC-015 G-06 S252935B, UPPER WOLF CAMP; [98220] PURPLE SAGE, WOLF CAMP (GAS)	Active
30-015-42294	NORTH BRUSHY DRAW FEDERAL 35 #008H		35 25S	29E	A	WPX Energy Permian, LLC	[13354] CORRAL CANYON, BONE SPRING, SOUTH	New (Not Drilled/Completed)
30-015-42482	CABO WABO 24 FEDERAL #005H		24 25S	29E	M	COG PRODUCTION, LLC	[96217] WILLOW LAKE, BONE SPRING, SOUTHEAST; [96238] CORRAL DRAW, BONE SPRING	Active
30-015-42718	CABO WABO 25 FEDERAL #002H		25 25S	29E	N	COG PRODUCTION, LLC	[96217] WILLOW LAKE, BONE SPRING, SOUTHEAST	New (Not Drilled/Completed)

Complete Water Analysis Report

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

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
---------	--------------	----------	------------	---------	--------------

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	9.69	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	-1.16	-1.57
75°	0.42	-0.27	0.13	-0.50	-1.17	-1.40
100°	0.21	-0.19	0.16	-0.51	-1.16	-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°	-0.68	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	-1.18	-0.14
400°	-0.93	1.27	0.75	-0.37	-1.16	-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

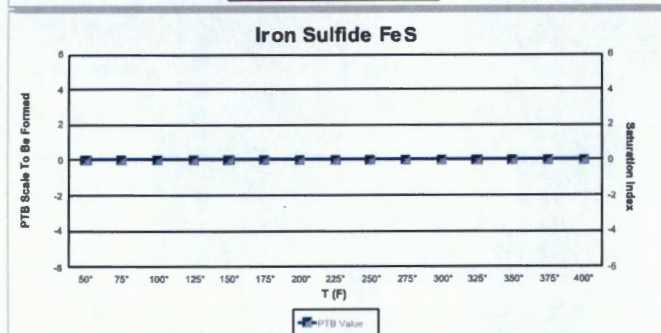
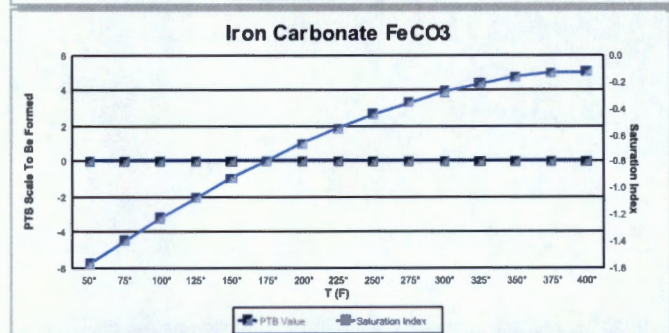
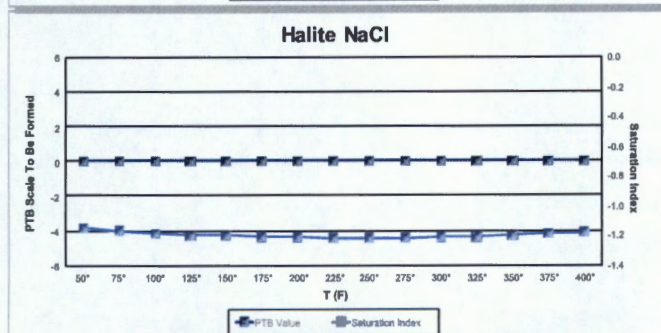
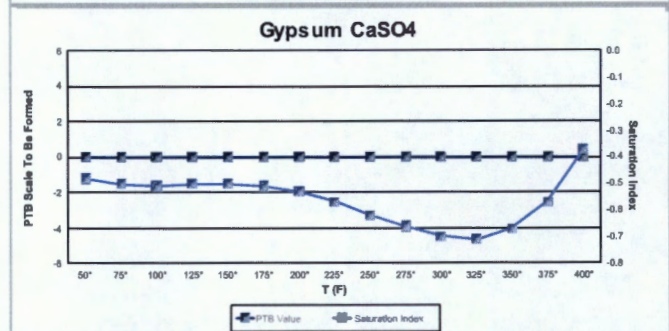
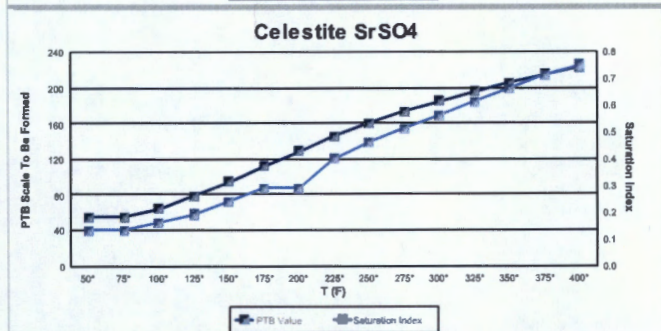
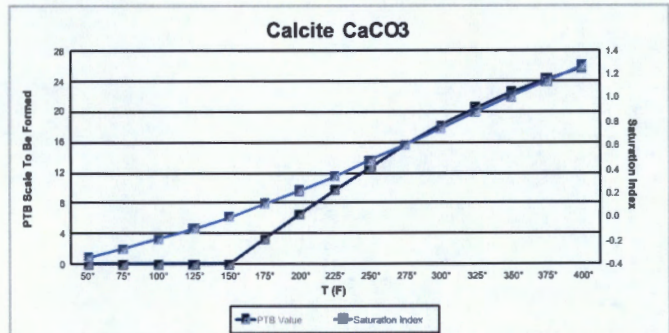
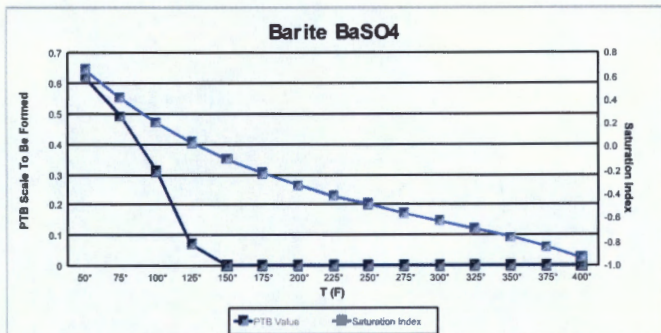
Acct Rep Email: gregory.oswood@ecolab.com

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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05/21/2019



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

No PODs found.

PLSS Search:

Section(s): 22-27, 34-36 Township: 25S Range: 29E

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.

5/21/19 2:03 PM

ACTIVE & INACTIVE POINTS OF DIVERSION

Exhibit E

May 6, 2019

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

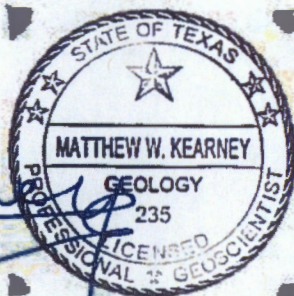
Re: Geology Statement per Question XII on the Application for Authorization to Inject Form C-108 for
XTO Energy Inc., an ExxonMobil subsidiary
CC SR 26 Salisbury SWD 1,
Section 26, Township 25 South, Range 29 East,
Eddy County, New Mexico

To whom it may concern:

XTO Energy, Inc., an ExxonMobil subsidiary, has examined available geological data at the above-mentioned well located at 2,395 feet from the south line and 1,307 feet from the east line of Section 26, 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.

Respectively Submitted,


Matthew W. Kearney, P.G.



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

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001285157

REC'D/MIDLAND

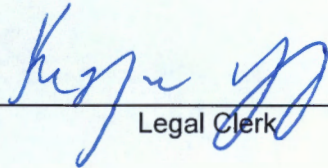
MAY 10 2019

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

MIDLAND TX 79707

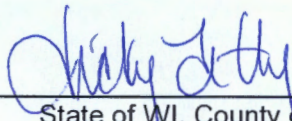
I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements 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:

05/04/19



Legal Clerk

Subscribed and sworn before me this
6th of May 2019.



State of WI, County of Brown
NOTARY PUBLIC

9-19-21

My Commission Expires

Ad#:0001285157
P O : CC SR 26 Salisbury SWD #1
of Affidavits :0.00

**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 26 Salisbury SWD #1** (Siluro-Devonian and Fusselman Formations). The maximum injection pressure will be 3,122 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 26, T25S, R29E, 2,396' FSL & 1,307' FEL, Eddy County, New Mexico. The produced water will be disposed at a subsurface depth of 15,612'-16,700'.

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

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.

May 4, 2019



Exhibit G

CERTIFIED MAILING LIST

XTO Energy

CC SR Salisbury SWD #1

Certified #7018 1130 0001 5531 4163

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

Certified #7018 1130 0001 5531 4224

EOG Resources, Inc
PO Box 2267
Midland, TX 79702

Certified #7018 1130 0001 5531 4170

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

Certified #7018 1130 0001 5531 4231

Byron & Janey Paschal
PO Box 992
Pecos, TX 79772-0992

Certified #7018 1130 0001 5531 4187

COG Operating, LLC
PO Box 2064
Midland, TX 79702

Certified #7018 1130 0001 5531 4194

Mewbourne Oil Company
PO Box 5270
Hobbs, NM 88241

Certified #7018 1130 0001 5531 4200

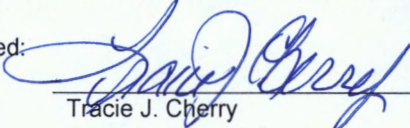
WPX Energy Permian, LLC
3500 One Williams Center
Tulsa, OK 74172

Certified #7018 1130 0001 5531 4217

Southwest Royalties, Inc
PO Box 53570
Midland, TX 79710

I, Tracie J Cherry, 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:


Tracie J. Cherry

Title: Regulatory Coordinator

Date:

05/29/19



Statements Regarding Seismicity

XTO has performed a seismicity risk assessment associated with the proposed CC SR 26 Salisbury 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 26 Salisbury SWD 1 Well - Historic Seismicity

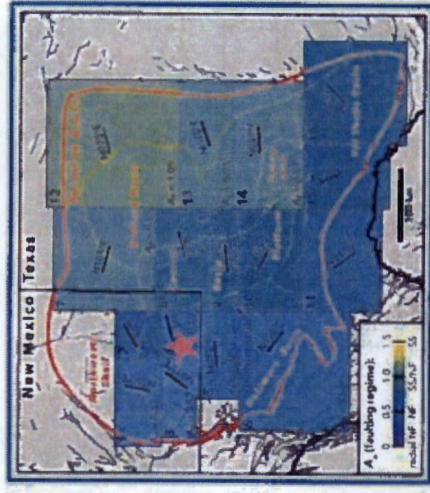
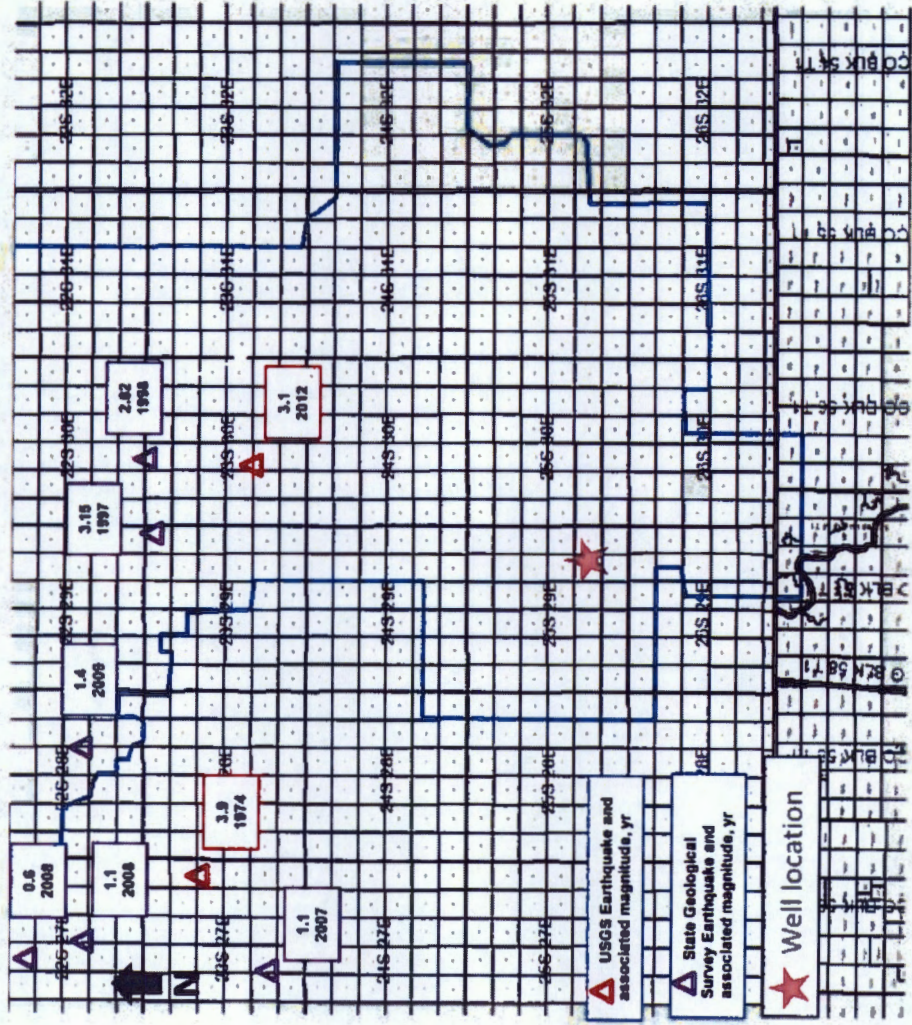
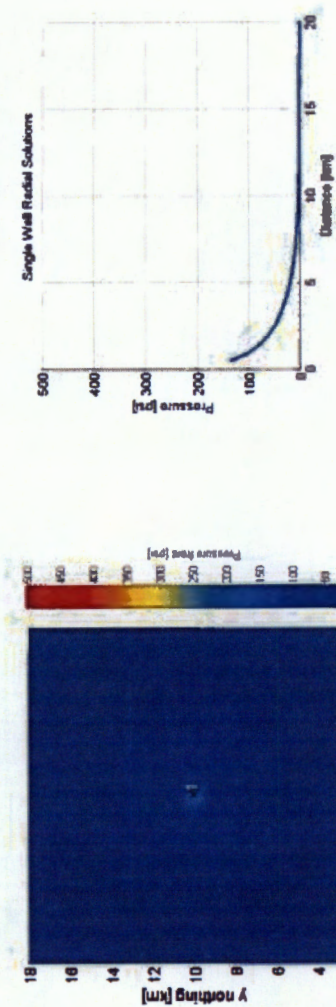


Figure 1

CC SR 26 Salisbury SWD 1 Well – Pore Pressure

2025 Snapshot



2040 Snapshot

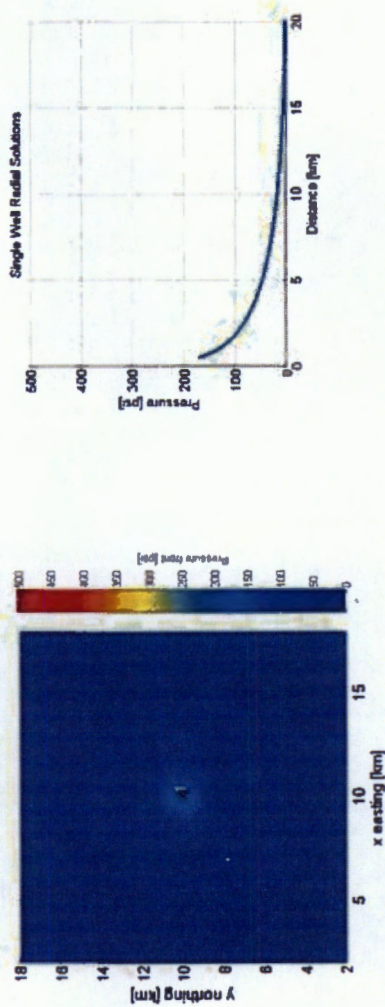


Figure 2

McMillan, Michael, EMNRD

From: Cherry, Tracie <Tracie_Cherry@xtoenergy.com>
Sent: Wednesday, May 29, 2019 1:38 PM
To: McMillan, Michael, EMNRD
Subject: [EXT] RE: CC SR 26 Salisbury SWD 001

BLM, grazing rights are leased to Byron and Janey Pascal

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]
Sent: Wednesday, May 29, 2019 2:37 PM
To: Cherry, Tracie <Tracie_Cherry@xtoenergy.com>
Subject: RE: CC SR 26 Salisbury SWD 001

Who is surface owner

From: Cherry, Tracie <Tracie_Cherry@xtoenergy.com>
Sent: Wednesday, May 29, 2019 1:31 PM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Subject: [EXT] CC SR 26 Salisbury SWD 001

Hello Mike.

Attached is an SWD application, I will snail mail the original tomorrow. Notice to offsets **did** go today (this envelope missed the mail run).

Tracie

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



From: noreply2@xtoenergy.com [mailto:noreply2@xtoenergy.com]
Sent: Wednesday, May 29, 2019 2:15 PM
To: Cherry, Tracie <Tracie_Cherry@xtoenergy.com>
Subject: Attached image