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RECEIVED: REVIEWER: 3		DMAM180122962
DECEMEN (YOU)	ABOVE THIS TABLE FOR OCD DIVISION USE ONLY	
Coologi	CO OIL CONSERVATION Dical & Engineering Bureau	
2018 JAN 11 P 3: 20 South St. F	rancis Drive, Santa Fe, NA	N 87505
	RATIVE APPLICATION CHE	
REGULATIONS WHICH R	EQUIRE PROCESSING AT THE DIVISION LEV	/EL IN SANTA FE
Applicant: XTO ENERGY INC.		OGRID Number: 5380
Well Name: REMUA BASIN SWD#1		API: 30-015-44388
Pool: SWD; DEVONIAN		Pool Code: 96101
SUBMIT ACCURATE AND COMPLETE IN	FORMATION REQUIRED TO P	ROCESS THE TYPE OF APPLICATION
	INDICATED BELOW	SWD-
1) TYPE OF APPLICATION: Check those		_
A. Location – Spacing Unit – Simul ☐NSL ☐ NSP _®	Itaneous Dedication ROJECT AREA) NSP (PRORATION)	INITI SD
	ROJECTAREA) LINGT (PRORATION)	
B. Check one only for [I] or [II]		Re advotised 4/25/18
[1] Commingling – Storage – M □DHC □CTB □F		OLM
[II] Injection – Disposal – Press		
□ WFX □ PMX ■S	WD IPI EOR	PPR FOR OCD ONLY
2) NOTIFICATION REQUIRED TO: Check	those which apply.	FOR OCD ONLY
A. Offset operators or lease ho	lders	Notice Complete
B. Royalty, overriding royalty o C. Application requires publish		Application
D. Notification and/or concurr		Content
E. Notification and/or concurr	ent approval by BLM	Complete
F. Surface owner G. For all of the above, proof a	of notification or publication	is attached and/or
H. No notice required	7 Homeanon of poblication	is arractica, arrayor,
2) CERTIFICATION: I horoby cortify that	the information submitted to	with this application for
 CERTIFICATION: I hereby certify that administrative approval is accurate 		• •
understand that no action will be ta	ken on this application until	, •
notifications are submitted to the Di	vision.	
Note: Statement must be comple	eted by an individual with managerial	and/or supervisory capacity.
	\bigvee	2/17
DEEANN KEMP	Date Date	
Print or Type Name		
_	432-57	The state of the s
$\mathcal{T}_{\mathcal{A}}$	Phone	e Number
JULAN	<u> </u>	.NN_KEMP@XTOENERGY.COM
Signature	e-mai	l Address

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: XTO ENERGY INC.
	ADDRESS:500. W. ILLINOIS SUITE 100 MIDLAND, TEXAS 79701
	CONTACT PARTY: PATRICIA DONALD PHONE: 432-571-8220
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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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.
1X.	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: _PATRICIA DONALDTITLE:REGULATORY ANALYST
	SIGNATURE: Palaul bradd DATE: V8/18
*	E-MAIL ADDRESS: PATRICIA DONALD@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.

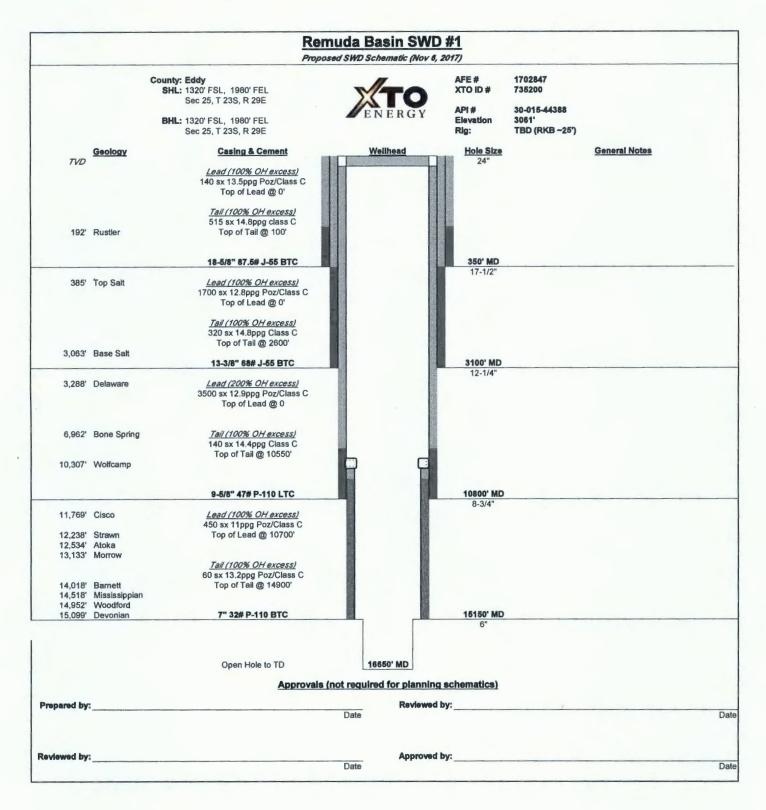
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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.

05/31/2018 - Modified Well Construction Pel



OPERATOR: XTO ENERGY INC

ff³ \mathfrak{t}_3 \mathfrak{t}_3 13% RANGE Method Determined: CIRC 29E Method Determined: CIRC Method Determined: CIRC 15150 feet to 16'650 OPEN HOLE WELL CONSTRUCTION DATA SECTION 23 STOWNSHIP Casing Size: Casing Size: Casing Size: Intermediate Casing Production Casing Injection Interval Surface Casing or or SX. SX. 1613 450 Total Depth: 16'650 Top of Cement: 0 Hole Size: 17.5 Top of Cement: Cemented with: Top of Cement: Cemented with: Cemented with: Hole Size: 24 UNIT LETTER Well Bore Schematic Modified The 95/8 in casing set at 10,800 'MD

95/8 in liner 10,700 'MD to 15,150 'MD JC: 103 · Shows liner & 95/8 Casing District. Requested mod to Smaller lasing -WELL NAME & NUMBER: REMUDA BASIN SWD #1 FOOTAGE LOCATION WELL LOCATION: 1320 SOUTH 1980 EAST (only 100' tic) Combination: WELLBORE SCHEMATIC

INJECTION WELL DATA SHEET

	Packer Setting Depth: 15,000
th	Other Type of Tubing/Casing Seal (if applicable):
	Additional Data
	Is this a new well drilled for injection?
	If no, for what purpose was the well originally drilled?
5	Name of the Injection Formation: DEVONIAN
3	Name of Field or Pool (if applicable): SWD; DEVONIAN
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO
3	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: OVERL YING- MORROW UNDERLYING-NONE
	SEE GEOPROG FOR DEPTHS.

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

11/2/2017

Re: C-108 Application for Authorization to Inject

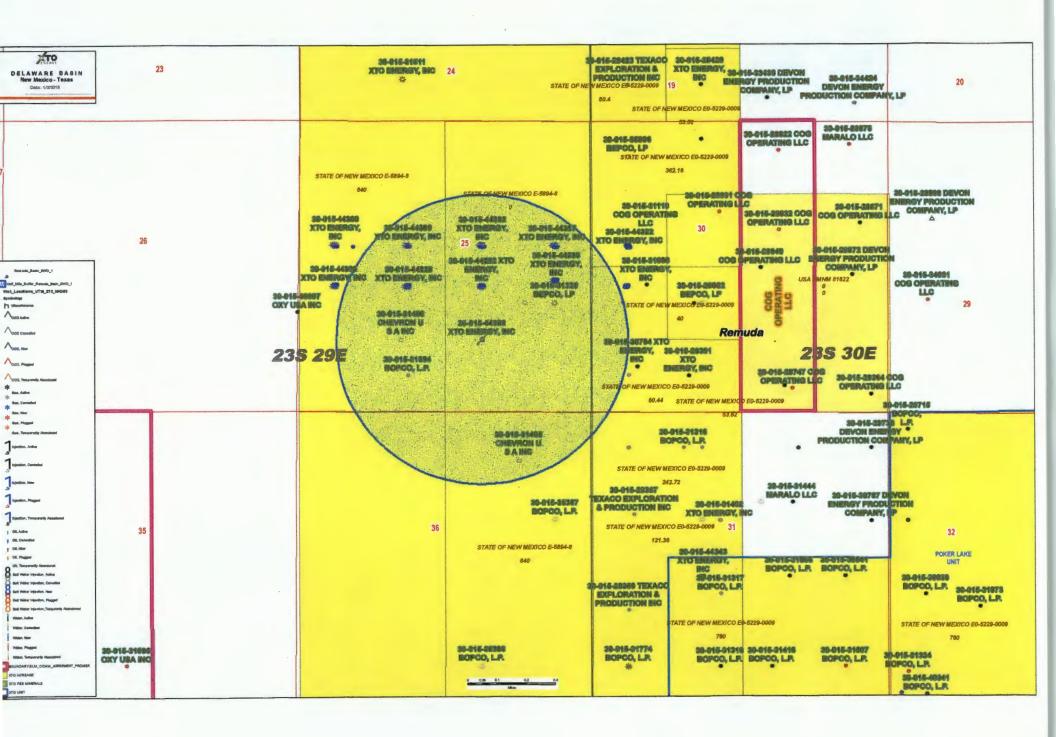
To Whom it May Concern:

XTO Energy, Inc has examined the geologic data in connection with Remuda Basin SWD #1 (a well to be located 1320 FSL & 1980 FWL, Unit O, Section 25, T23S, R29E in Eddy County NM) and has determined that there are no open faults or other hydrologic connections between the disposal zone and any underground drinking water/potable aquifers.

Brian Henthorn Regional Geologist

XTO Energy Inc. 810 Houston St.

Fort Worth, TX 76102



Voll Name	****	4DI#	_	Spud	Completi	17.0			9		UNISET	UNIJSE:TOWNSHIBANG	ANG
	- 112#		2	date	on Date		Status	Operator	S.	.	T C P	<u>ш</u>	
REMUDA SOUTH 25 STATE	124H	30-015-44390	(P)18380	PENDING	(P)18380 PENDING PENDING	PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW;NOT DRILLED XTO ENERGY INC. (5380) 2280N	2280N	1995W	F 25,235		<u> </u>
REMUDA SOUTH 25 STATE	103H	30-015-44359	(P)18127	PENDING	PENDING	(P)18127 PENDING PENDING PURPLESAGE; WOLFCAMP (GAS)	NEW: NOT DRILLED	NEW;NOT DRILLED XTO ENERGY INC. (5380) 2280N	2280N	1935W	F 25 23S		ш
REMUDA SOUTH 25 STATE	904H	30-015-44252	(P)18026	(P)18026 PENDING PENDING	PENDING	NASHIDRAW, DELAWARE/BS (AVALON NEW; NOT DRILLED XTO ENERGY INC. (5380) 2310N	NEW; NOT DRILLED	XTO ENERGY INC. (5380)	2310N	1980V	F 25,235		ш
REMUDA SOUTH 25 STATE	123H	30-015-44389	(P)18028	(P)18028 PENDING PEND	OING	PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW, NOT DRILLED XTO ENERGY INC. (5380) 2280N	2280N	1965W	F 25,235		ш
REMUDA SOUTH 25 STATE	126H	30-015-44392	(P)19155	(P)19155 PENDING		PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW;NOT DRILLED XTO ENERGY INC. (5380) 2280N	2280N	1965E	G 25,23S		ш
REMUDA SOUTH 25 STATE	125H	30-015-44391	(P)19154	(P)19154 PENDING PENDING		PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 2280N	2280N	1995E	G 25 23S		ш
REMUDA SOUTH 25 STATE	105H	30-015-44356	(P)18136	PENDING	(P)18136 PENDING PENDING	PURPLE SAGE; WOLFCAMP (GAS)	NEW;NOT DRILLED	NEW;NOT DRILLED XTO ENERGY INC. (5380) 20280N	7	2025E	G 25 23S	3S 29E	ш
REMUDA SOUTH 25 STATE	H906	30-015-44249	(P)18780	PENDING	PENDING	(P) 18780 PENDING PENDING NASH DRAW; DELAWARE/BS (AVALON NEW:NOT DRILLED XTO ENERGY INC. (5380) 2310N	NEW:NOT DRILLED	XTO ENERGY INC. (5380)	Ι.	1980E	G 25,23S	35 29E	ш
REMUDA SOUTH 25 STATE	128H	30-015-44394	(P)19182	(P)19182 PENDING PEND	PENDING	JING (PURPLE SAGE, WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 2280N	2280N	645E	H 25,235		ш
REMUDA SOUTH 25 STATE	107H	30-015-44357	(P)19182	PENDING	PENDING	(P)19182 PENDING PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW;NOT DRILLED XTO ENERGY INC. (5380) 2280N	П	70SE	H 25 235	3S 29E	ш
REMUDA SOUTH 25 STATE	127H	30-015-44393	(P)19222	PENDING	PENDING	(P)19222 PENDING PENDING PURPLE SAGE; WOLFCAMP (GAS)	NEW: NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 2280N	2280N	675E	H 25/235		Ш
REMUDA SOUTH 25 STATE	308H	30-015-44253	(P)18862	PENDING	PENDING	(P) 18862 PENDING PENDING NASH DRAW; DELAWAREIBS (AVALON NEW; NOT DRILLED XTD ENERGY INC. (5380) 2310N	NEW:NOT DRILLED	XTO ENERGY INC. (5380)	2310N	908e	H 25,235	3S 29E	ш
REMUDA NORTH 25 STATE	103H	30-015-44314	(P)18118	PENDING	PENDING	(P)18118 PENDING PURPLESAGE WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 22805	22805	1935W	X 25.2	3S 29E	ш
REMUDA NORTH 25 STATE	123H	30-015-44308	(P)18367	(P)18367 PENDING	PENDING	PENDING PURPLE SAGE; WOLFCAMP (GAS)	NEW;NOT DRILLED	NEW;NOT DRILLED XTO ENERGY INC. (5380) 2280S	22805	1965W	K 25 235		ш
REMUDA NORTH 25 STATE	124H	30-015-44310	(P)18366	PENDING	PENDING	(P)18366 PENDING PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW;NOT DRILLED XTO ENERGY INC. (5380) 2280S	2280S	1995W	K 25.2		ш
REMUDA NORTH 25 STATE	105H	30-015-44315	(P)18894	(P)18894 PENDING PENDING	PENDING	PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 2280S	2280S	2025E	J 25,23S	3S 29E	ш
REMUDA NORTH 25 STATE	125H	30-015-44311	(P)19141	PENDING	PENDING	(P)19141 PENDING PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 2280S	2280S	1995E	J 25,235		w
REMUDA NORTH 25 STATE	126H	30-015-44312	(P)19135	PENDING	(P)19135 PENDING PENDING	PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 22805	22805	1965E	J 25 23S	3S 29E	ш
REMUDA NORTH 25 STATE	128H	30-015-44309	(P)19065	PENDING	PENDING	PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW, NOT DRILLED XTO ENERGY INC. (5380) 23805	23805	645E	25 235		ш
REMUDA NORTH 25 STATE	127H	30-015-44304	(P)19067	(P)19067 PENDING PENDING		PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 23805	23805	675E	25,235	3S 29E	ш
REMUDA NORTH 25 STATE	107H	30-015-44305	(P)18824	(P)18824 PENDING PENDING	PENDING	PURPLE SAGE; WOLFCAMP (GAS)	NEW:NOT DRILLED	NEW; NOT DRILLED XTO ENERGY INC. (5380) 23805	23805	70SE	25,235		w.
REMUDA BASIN 25 STATE	۳,	30-015-32010		NA	₩.	REMUDA WOLFCAMP GAS	CANCELED APD	CHEVRON USA INC.	19805	1200E	25,235		سا
REMUDA BASIN 25 STATE	-	30-015-35121	14,128	10/2/2006	4/9/2007	NASH DRAW; MORROW	ACTIVE	BOPCO, L.P	19805	909E	25 235		ш
REMUDA 25 STATE	щ	30-015-28581	0	NA	ΝΆ	NASH DRAW; MORROW	CANCELED APD	BASS ENTERPRISE PROD 1980S	19805	909e	25.23		سا
REMUDA SOUTH 25 STATE	901E	30-015-31325	0	ΝΆ	ΝA	NASH DRAW; MORROW	CANCELED APD	BASS ENTERPRISE PROD 1980S	19805	909E	25 235	35 29E	ш
REMUDA BASIN 25 STATE	2	30-015-31496	0	N/A	ΝΆ	N∤A	CANCELED APD	CHEVRON USA INC.	1300S	1860V	N 25 23S	35 29E	w W
REMUDA BASIN 36 STATE	-	30-015-31495	0	ΝΆ	ΝΆ	LAGUNA GRANDE: WOLFCAMP	CANCELED APD	CHEVRON USA INC.	N006	1310E	A 36:23S	35 23E	ш
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(P)= PBO (FOTE)													

duells to Devocion in AaR

XTO ENERGY INC.

Remuda Basin SWD #1 1320FSL & 1980 FEL, SEC 25, T23S, R29E

Eddy County, New Mexico

RE: C: 108 (Application for Authorization to Inject)

VII. Data for Proposed Operation

- 1. Proposed average & maximum daily rate & volume: 40,000bwpd maximum, 20,000bwpdaverage.
- 2. System is closed.
- 3. Proposed injection Pressure: 2,000psi average, 5,000psi maximum
- 4. This is a permit for multi-lease SWD. The sources of disposal fluids will be reinjected produced water from the Bone Spring, and the Wolfcamp formation (water sample results attached).
- 5. Upon drilling the well, a chemical analysis of the disposal formation water will be provided.

VII. Geologic Data:

- 1. Proposed Zone: Devonian
- 2. Geologic formation is Devonian. The lithologic detail is cherty fractures limestone and dolomite with a thickness of 1580' and depth of 14,950-16,500'.
- 3. The Rustler is a known source of fresh water throughout this area. The average depth to the Rustler is 200-400'. There are no known sources of fresh water below the proposed disposal zone.

IX. Proposed Stimulation Program

The OH will be stimulated with an Acid frac using acid and rock salt for diversion with 5,000 gals of 15% HCL. No further stimulation is planned.

X. Well Test Information

No well test is available Log will be provided to Division once well is drilled.

XI. Chemical Analysis

Not aware of Fresh water well within one mile of subject well.

XII. Geological Statement

Please see signed geological statement enclosed.

XII. Proof of Notice

Proof of notice is enclosed.

XIV. Surface owners

Please see exhibit D & F

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

State of New Mexico

Form C-101 Revised July 18, 2013

Energy, Minerals & Natural REPUTESCONSERVATION

Oil Conservation Divsion

ARTESIA DISTRICT

☐ AMENDED REPORT

1220 S. St. Francis Dr.

AUG 1 4 2017

Phone: (505) 476-	s Dr., Santa Fc. NN 3460 Fax (505) 476 ICATION	6-3462	ERMIT T	O DRI	Santa Fe, N		•	ECEIVED	ACK. OR	ADD A ZON	NE
			erator Name and			1111111		1,12002.	² OGRID		-
XTO Energy, Inc					005			005380	3 API Number		
		ite 100 Mic	iland, Texas	79701					0-015	44388 6 Well No.	
* Pro	perty Code	Re	muda Basin	SWD	⁵ Property	Name			1	" Well No.	
	-1.14.1.				7Surface I	ocation					
UL-lot	Section	Township	Range	Lot.ldr			Line	Feet from	E/W Line	County	
0	25	25S	29E		1320	Soi		1980	East	Eddy	
	1				posed Botton			F	T FAN I		
UL-lot	Section	Township	Range	Lot.Idn	Feet from	' N/S	Line	Feet from	E/W Line	County	
	L				⁹ Pool Info	rmation					
					Pool Name					Pool Code	
SWD	Devonian									96101	
			13	A	dditional We						
NW	ork Type	D	12 Well Type		R Cable/R	olary	State	Lease Type	306	Ground Level Elevation	
16 N	lultiple	1	7 Proposed Depth	n	18 Forma	tion		¹⁹ Contractor	ASA	20 Spud Date	
Depth to Groundwater Distance from nearest fresh water well								Distance	to nearest surface		
A Wew	ill be using a	closed-loop s	ystem in lieu of 2	•	sed Casing an	d Cement	Program	1			
Type Hole Size Casing Size Casing weight/					ft Setti	ng Depth	Sacks of C	етепт .	Estimated TOC		
Surface 24 20 J-55 94# BT					3	350		458		0	
Inter	ter 17.5 13.375 J-55 68# BTG				:	3100	10	613		0	
Prod 12.25 9.625 P-110 LTC						10800	27	756		0	
			Cas	sing/Cen	nent Progran	ı: Additior	al Com	nents			
Prod Lit	ner: 6" Hole	e, 7" P-110	32# BTC Cs	sg @ 10,	,500'-14,910' v	v/561sx cn	nt. TOC:	10,500'			
			2	² Propos	sed Blowout I	revention	Progran	n			
	Турс		w	orking Pres	sure		Test Pressur	e		Maintenance	
Cameror	Double R	am	5000ps	si 		5000p	si 				
the best of	my knowledg	ge and belief.	ation given abov					CONSERV	ATION D	IVISION	
I further 19.15.14.9	certify that I ! (B) NMAC	have complic if appli	ed with 19.15.14 cable	1.9 (A) NN	AAC 📉 and/or	Approved I))	($\overline{}$		
Signature:	Air	draw	e Rab	adu	<u> </u>		ayon	ond or	Sods	my	
Printed nam	e: Steph	anie Raba	due			Title:	67	0/05/	57		
Title:	Regu	latory Ana	lyst			Approval I	Date: 8-	15-17	Expiration	Date: 8-15-1	19
E-mail Add	ress: steph	anie_raba	due@xtoene	ergy.com	n						
Date: 08/07/2017 Phone: 432-620-6714					Conditions	of Approv	al Attached	6. C-11	*		



PATRICIA DONALD Regulatory Analyst XTO Energy Inc. 500 W. Illinois Suite 100 Midland, TX 79707 432-571-8220

November 13, 2017

Re: Notice of Application to Inject Fluid

Remuda Basin SWD #1

Eddy County, New Mexico

Carlsbad Current Argus

P. O. Box 1629

Carlsbad, New Mexico 88220

To whom this may concern:

Enclosed for publication is one legal advertisement, please contact me for payment. XTO Energy Inc. requests that this be published for one day. XTO Energy Inc. is required by the New Mexico Oil Conservation Division to furnish them with a copy of this advertisement, from your newspaper, giving the date of publication.

Please send the ad, the affidavit of publication and the invoice to Patricia Donald at the above letterhead address.

I (M (L)

Regulatory Analyst

Enclosure

PATRICIA DONALD
Regulatory Analyst
Patricia_Donald@xtoenergy.com
XTO Energy Inc.
500 W. Illinois Suite 100
Midland, TX 79707
432-571-8220



January 5, 2018

Re: Notice of Application to Inject Fluid Remuda Basin SWD#1 Eddy County, New Mexico

DEVON ENERGY PRODUCTION COMPANY L.P. 620 E Greene St, Carlsbad, NM 88220

To whom this may concern:

This letter is to notify you XTO Energy Inc. has submitted to the Oil Conservation Division an application to drill a salt water disposal well. Our records indicate that you are the offset operator, surface tenant and/ or offset owner. Attached please find a copy of the application sent to the Oil Conservation Division for your review.

If you have any questions please feel free to contact me.

Sincerely,

Patricia Donald Regulatory Analyst

Enclosure

Exhibit D

Surface Owner:

State of New Mexico
C/O Faith Crosby
310 Old Santa Fe Trail
Santa Fe, New Mexico 87504
505-827-5849
Certified Mail Receipt # 7016 1970 0000 4404 1387

Mineral Owner:

State of New Mexico
C/O Faith Crosby
310 Old Santa Fe Trail
Santa Fe, New Mexico 87504
505-827-5849
Certified Mail Receipt # SAME AS ABOVE

Surface Tenant:

VICKIE CONNALLY
4301 Brantley Rd.
Carlsbad, NM 88220
Certified Mail Receipt # 7016 1970 0000 4404 1370

Offset Owners:

BUREAU OF LAND MANAGEMENT 620 E Greene St, Carlsbad, NM 88220 · 575) 234-5972 Certified Mail Receipt # 7016 1970 0000 4404 1363

Offset Operators with ½ Mille:

OCCIDENTAL PERMIAN LTD
P.O Box 4294
Houston, TX 77210
Certified Mail Receipt # 7016 1970 0000 4404 1356

COG OPERATING LLC
One Concho Center
600 W. Illinois Ave
Midland, Texas 79701
Certified Mail Receipt # 7013 1710 0001 7901 9445

DEVON ENERGY PRODUCTION COMPANY L.P. 620 E Greene St, Carlsbad, NM 88220 · 575) 234-5972 Certified Mail Receipt # 7013 1710 0001 7901 9452

I, Patricia Donald, do hereby certify that on January 8, 2018 the above and attached listed parties were given copies of the application to dispose water in the Remuda Basin SWD#1 via certified mail.

Patricia Donald Regulatory Analyst

NOTICE OF APPLICATION FOR FLUID DISPOSAL WELL PERMIT

XTO Energy Inc. OGRID#005380, 500 W. Illinois suite 100, Midland, Texas 79701 is applying to the New Mexico Oil Conservation Division to permit a salt water disposal well into a formation that is not productive of oil and gas.

The applicant proposes to permit a salt water disposal well into a non-productive zone (Devonian) in the Remuda Basin SWD #1. The proposed well is located 1320 FSL & 1980 FEL, Unit Letter O, Section 25, Township 25S, Range 29E, Eddy County, New Mexico. Fluid will be disposed into strata in the subsurface depth interval from 15,150′-16,650′ MD with a maximum injection rate of 40,000BWPD and a maximum injection pressure of 5,000psi. All interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South t. Francis Dr., Santa Fe, NM 87505, within 15 days.

McMillan, Michael, EMNRD

From:

Donald, Patricia < Patricia_Donald@xtoenergy.com>

Sent:

Wednesday, April 25, 2018 10:05 AM

To:

McMillan, Michael, EMNRD

Subject:

RE: REMUDA SWD 30-015-44388

Attachments:

0001244629 XTO Energy, INC..pdf

Mike please see attached affidavit.

Thanks,

Patricia Donald

Regulatory Analyst



An ExxonMobil Subsidiary

6401 Holiday Hill Road, Building #5

Midland, TX 79707 Phone: 432.571.8220 Fax: 817-900-7311

Patricia Donald@xtoenergy.com

This message and any attachments are intended for the use of the individual or entity to which it is addressed and may contain information that is confidential and protected from disclosure under applicable law. If the reader of this message is not the intended recipient and is not capable of delivering this message to the intended recipient, you are hereby notified that any dissemination or copying of this communication is strictly prohibited. If you received this communication in error, please notify us immediately by telephone at (432) 571-8220 and/or e-mail and delete the original message. Thank you.

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]

Sent: Tuesday, April 24, 2018 3:30 PM

To: Donald, Patricia < Patricia_Donald@xtoenergy.com>

Subject: RE: REMUDA SWD 30-015-44388

Thanks Mike

From: Donald, Patricia < Patricia Donald@xtoenergy.com >

Sent: Tuesday, April 24, 2018 2:29 PM

To: McMillan, Michael, EMNRD < Michael. McMillan@state.nm.us>

Subject: RE: REMUDA SWD 30-015-44388

Yes, and I am waiting for Carlsbad Current Argus to send me the affidavit.

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]

Sent: Tuesday, April 24, 2018 3:25 PM

CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No. 0001244629

XTO ENERGY, INC. 500 W. ILLINOIS SUITE 100 MIDLAND TX 79701

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:

04/25/18

Legal Clerk

Subscribed and sworn before me this 25th of April 2018.

State of WI, County of Brown NOTARY PUBLIC

My Commission Expires

NOTICE OF APPLICATION FOR FLUID DISPOSAL W PERMIT

XTO Energy Inc. OGRID#005380, 500 W. Illinois suite 100, Midland, Texas 79701 is applying to the New Mexico Oil Conservation Division to permit a salt water disposal well into a formation that is not productive of oil and gas.

The applicant proposes to permit a salt water disposal well into a non-productive zone (Devonian) in the Remuda Basin SWD #1. The proposed well is located 1320 FSL & 1980 FEL, Unit Letter O, Section 25, Township 23S, Range 29E, Eddy County, New Mexico. Fluid will be disposed into strata in the subsurface depth interval from 15,150'-16,650' MD with a maximum injection rate of 40,000BWPD and a maximum injection pressure of 5,000psi. All interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South t. Francis Dr., Santa Fe, NM 87505, within 15 days.

BERGEN GORNOWICH Notary Public State of Wisconsin

Affidavit of Publication

State of New Mexico, County of Eddy, ss.

Danny Fletcher, being first duly sworn, on oath says:

That he is the Publisher of the Carlsbad Current-Argus, 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 mav 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:

November 29

2017

That the cost of publication is \$68.09 and that payment thereof has been made and will be assessed as court costs.

My commission Expires

Notary Public



November 29, 2017

NOTICE OF APPLICATION FOR FLUID DISPOSAL WELL PERMIT

XTO Energy Inc. OGRID#005380, 500 W. Illinois suite 100, Midland, Texas 79701 is applying to the New Mexico Oil Conservation Division to permit a salt water disposal well into a formation that is not productive of oil and gas.

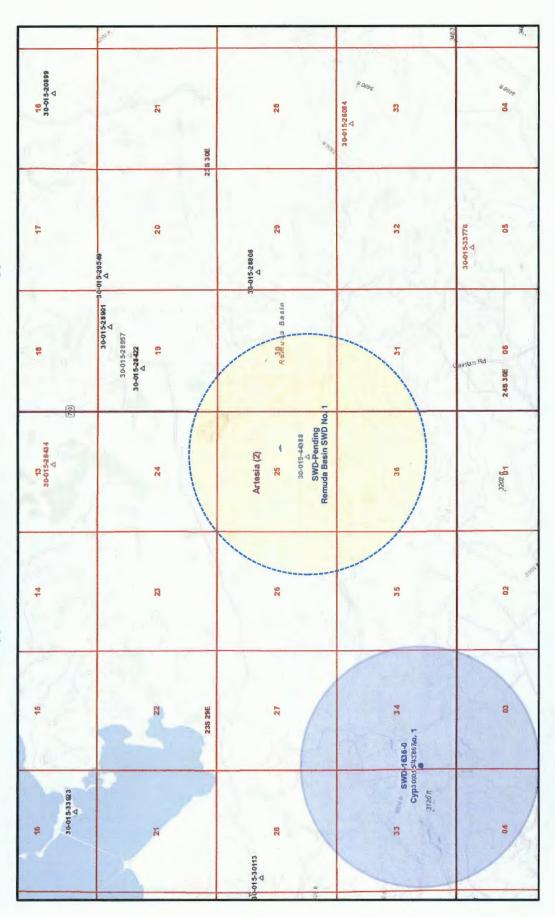
The applicant proposes to permit a salt water disposal well into a non-productive zone (Devonian) in the Remuda Basin SWD #1. The proposed well is located 1320 FSL & 1980 FEL, Unit Letter O, Section 25, Township 255, Range 29E, Eddy County, New Mexico. Fluid will be disposed into strata in the subsurface depth interval from 15, 150'-16,650' MD with a maximum injection rate of 40,000BWPD and a maximum injection rate of 10,000BWPD and a maximum injection pressure of 5,000psi. All interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505, within 15 days.

- 235

FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V16 DATE RECORD: First Rec: 12018 Admin Complete: 125/18 or Suspended: Add. Request/Reply:	IS 655055.									
ORDER TYPE: WFX / PMX SWD Number: 1735 Order Date: 65/31/18 Legacy Permits/Orders:										
Well No. Well Name(s): Remuda Basin SWD										
API : 30-0 15-44388 Spud Date: TBD New or Old (EPA): New Old (EPA): (UIC Class II Primacy 03/07/	/ 1982)									
Footages 1320' FSL 1980' FEL Lot — or Unit 0 Sec 25 Tsp 238 Rge 29 E County Eddy										
General Location: 9.3 mi past of Long Pool: SWD; Devonion Pool No.: 96106 BLM 100K Map: Jul Operator: XTO Energy, Inc. OGRID: 5380 Contact: Kelly Kindos (A)										
BLM 100K Map: Jul Operator: XTO Energy, Inc. OGRID: 5380 Contact: Kella Kendos (A)										
COMPLIANCE RULE 5.9: Total Wells: 2666 Inactive: 9 Fincl Assur: ()K Compl. Order? Yes IS 5.9 OK? YES Date: 2/31/18										
WELL FILE REVIEWED & Current Status: APD approved ACOI No. 2017-002; terms met as of review date										
WELL DIAGRAMS: NEW: Proposed of or RE-ENTER: Before Conv. After Conv. Logs in Imaging:										
Planned Rehab Work to Well: ** Revised well Construction										
Well Construction Details Sizes (in) Setting Cement Cement Top and Sizes (in) Depths (ft) Sizes (in) Sometiment of the construction Details Sizes (in) Sizes (in	1									
Planned or Existing Surface 24 / 185/8 0 to 350 Stage Tool 655 Circulate to Sur	raco									
Planned or Existing Interm Prod 171/2/132/8 0 to 3100 None 2020 Circulate to S	Trace									
Planned or Existing Interm Prod 1214/95/8 0 to 10800 Kova 3640 Circulate to S	race									
Planned_Gr Existing_Prod/Cine 83/4/7 (60700) to 15150 None +500 Circulate to TOI	<u>-/a</u> c,									
Planned_or Existing _ Liner										
Planned or Existing OH) PERF 6 15150 to 16650 Inj Length 1500 Completion/Operation Details:										
Injection Lithostratigraphic Units: Depths (ft) Units Drilled TD PBTD PBTD										
Adjacent Unit: Litho. Struc. Por. Mississippian 14518 NEW TD 16650 NEW PBTD										
Confining Unit Lith. Struc. For \$\frac{1}{250}\$ Wood ford 14952 NEW Open Hole of or NEW Perfs \(\)										
Proposed Inj Interval POTTON: 15150 Devoruse 15099 Tubing Size 4/2 in. Inter Coated? Yes										
Proposed Inj Interval BOTTOM: 16650 Proposed Packer Depth 15000 ft Confining Unit. Litho, Struc. Por. 16650 S. Nocion 16650 Min. Packer Depth 15050 (100-ft limit)										
Adjacent Unit: Litho. Struc. Por. — Proposed Max. Surface Press. 2005-500 si										
AOR: Hydrologic and Geologic Information Admin. Inj. Press. 3030 (0.2 psi per ft)										
POTASH: R-111-P Noticed? M BLM Sec Ord WIPP Noticed? No Salt/Salado T: 385 B:3663 NW: Cliff House fm MA										
FRESH WATER: Aquifer Alluvial Rustler Max Depth < 385 HYDRO AFFIRM STATEMENT By Qualified Person										
NMOSE Basin: Carlsboa CAPITAN REEF: thru adj NA No. GW Wells in 1-Mile Radius? FW Analysis?	<u>#</u>									
Disposal Fluid: Formation Source(s)										
Disposal Interval: Inject Rate (Avg/Max BWPD): 2000/40000 Protectable Waters? No Source: Historical System: Closed or Open										
HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other Required 2-Mi Radius Pool Map										
AOR Wells: 1/2-M Radius Map and Well List? VS No. Penetrating Wells: (AOR Horizontals: AOR SWDs:]										
Penetrating Wells: No. Active Wells Num Repairs? on which well(s)? Diagrams?										
Penetrating Wells: No. P&A Wells Num Repairs? on which well(s)? Diagrams?										
NOTICE: Newspaper Date 04 25 2018 Mineral Owner NMSLO Surface Owner NMSLO Vickic N. Date 18 19										
RULE 26.7(A): Identified Tracts? Yes Affected Persons: BLM / DEVON COGI Occidental Connelly N. Date 1/8/18										
Order Conditions: Issues: Tie in of liner; HC potential; CBL of cont; Cont not circ.; Chain of Casing*										
Additional COAs: CBL; cement circulation stip; Mudling with formation picks; 200' to	<i>A</i> /\									

lina

Pending Application for High-Volume Devonian Disposal Well C-108 Application for Remuda Basin SWD No. 1 – XTO Energy Inc.



Remuda Basin SWD No. 1; XTO Energy Inc. API 30-015-44388; Application No. pMAM1801229628 Proposed interval: 15,150' to 16,650'

Closest Devonian Wells with Large-Volume Potential: Approved: Cypress SWD No. 1 (30-025-43867) Mesquite SWD Inc. permit; no pending applications identified. Remaining SWD locations (to the northeast) are shallower disposal intervals (mostly DMG).



Statements Regarding Seismicity

XTO has assessed the possibility of seismicity associated with the Ramuda SWD by investigating historic seismicity, the presence of deep faulting (length, azimuth dip), orientation of faults to the current stress regime and potential for pore pressure build up. In addition, as a precautionary measure, XTO has developed a monitoring plan to address risk elements that are not currently discernable. A summary follows:

Historic Seismicity

The USGS website reflects a single seismic event in the vicinity of the proposed Ramuda SWD well in the past 20 years. The New Mexico Tech Seismological Observatory determined that the March 18, 2012 event was linked to the collapse of a potash mine.

Deep Faulting

After licensing 3D seismic data in the area of the proposed SWD well, XTO has not found any interpretable faulting. There are small steeply dipping seismic discontinuities associated with karsting in the Devonian section but these to do appear to have any lateral continuity.

Stress Regime

Stanford's Fault Slip Potential Tool was used in conjunction with Snee and Zoback, 'State of Stress in the Permian Basin, Texas and New Mexico: Implications for Induced Seismicity' (Feb 2018, The Leading Edge) to evaluate fault orientations as dip most likely to be critically stressed.

Monitoring Plan

XTO has contracted with a third party service to provide seismicity monitoring using public seismometers augmented by a private array in the area of the proposed well.

Tim Tyrrell

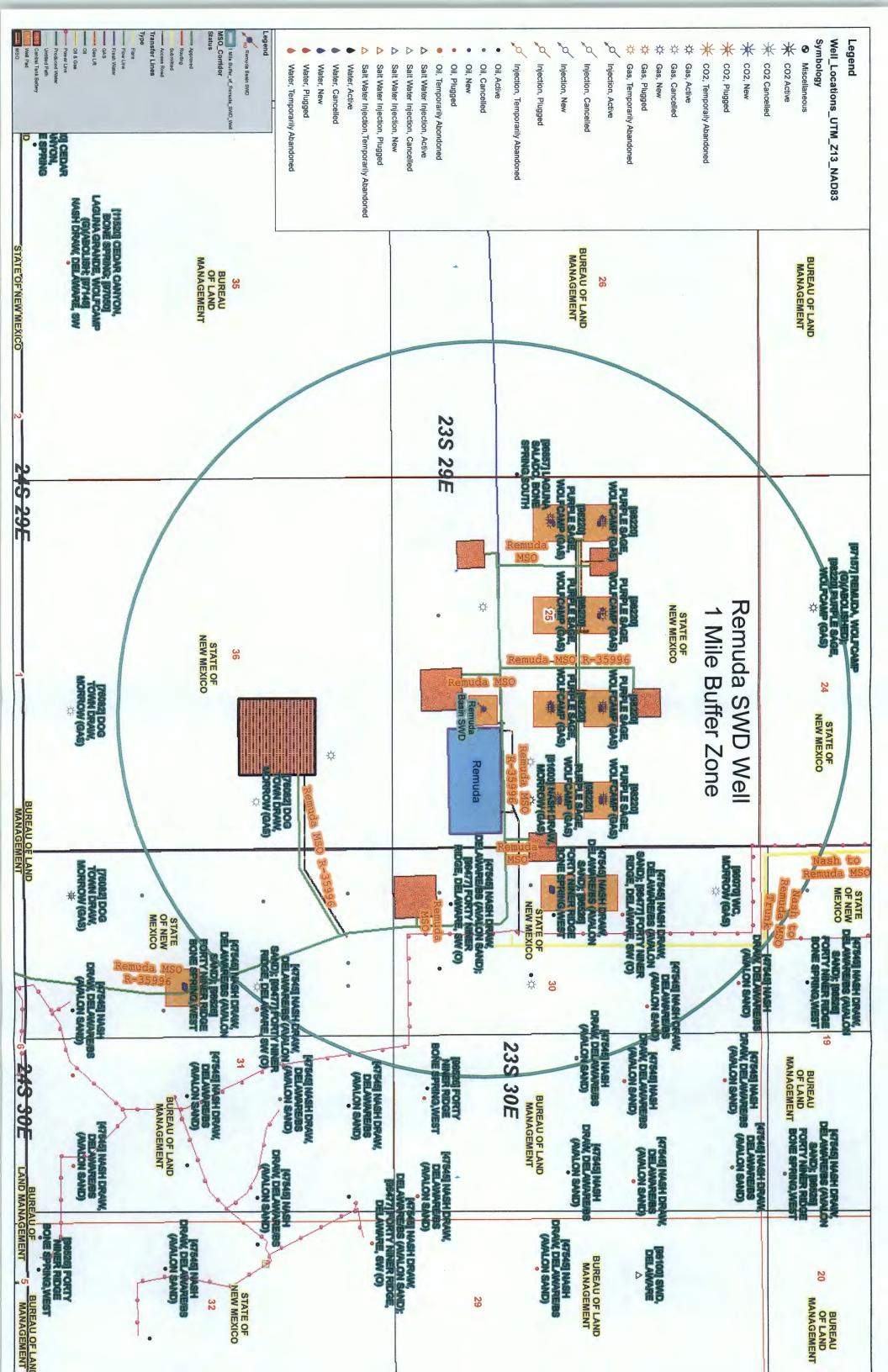
XTO Geoscience Technical Manager

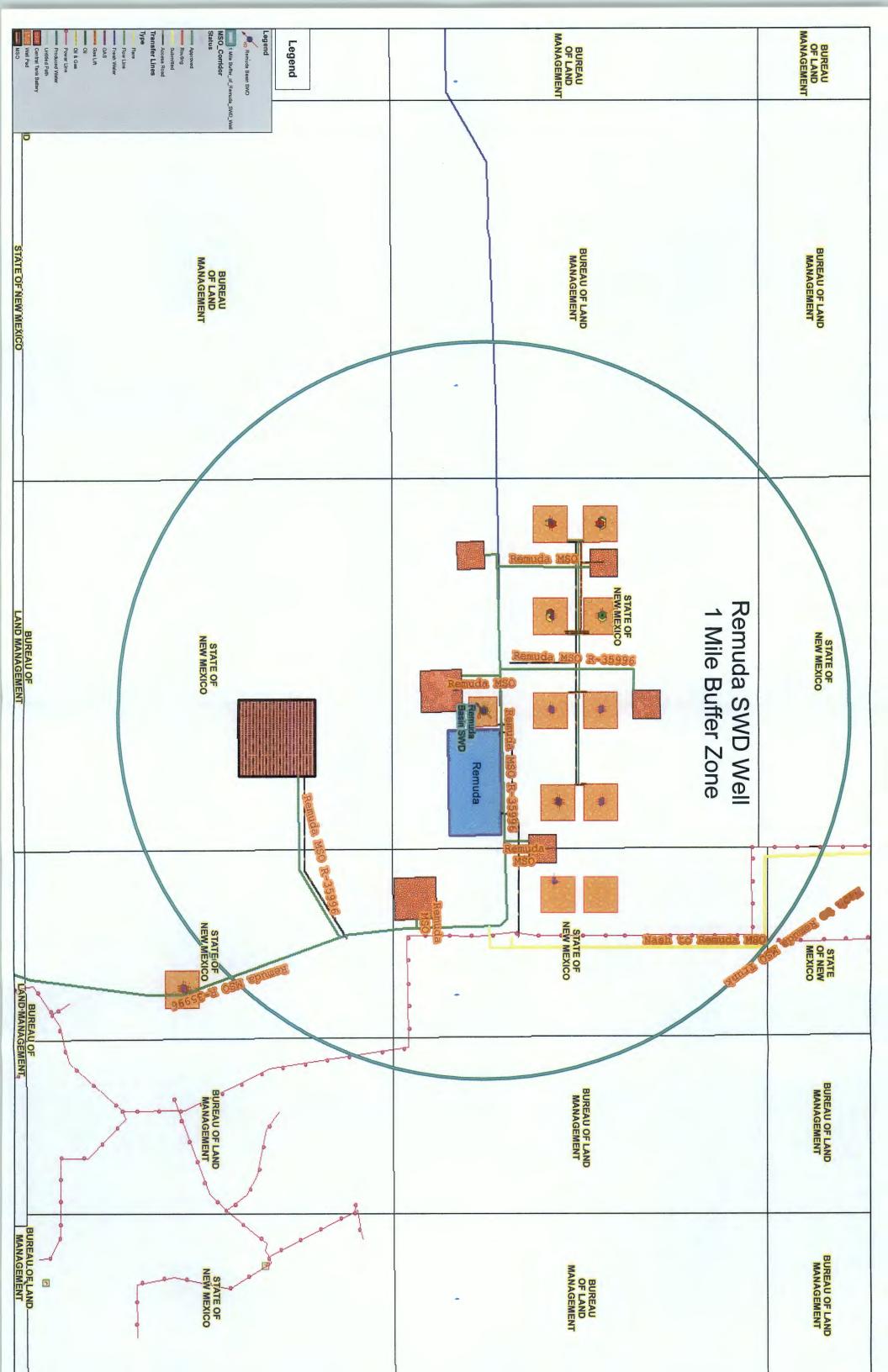
SONJA Y DAVIS

Notary Public, State of Tax.

Comm. Expires 03-03-207:

Notary ID 12973217-





Goetze, Phillip, EMNRD

From: Kardos, Kelly <Kelly_Kardos@xtoenergy.com>

Sent: Thursday, May 31, 2018 6:17 AM

To: Goetze, Phillip, EMNRD

Subject: RE: Change Order for Remuda Basin SWD No. 1

Attachments: Remuda Basin SWD #1 Schematic.pdf

Good morning Phillip,

Attached is the updated WBD that you requested. Please let me know if you need anything else. Once the order is approved, I will re-submit the C103.

Kelly K. Kardos

Regulatory Coordinator

Direct: 432-620-4374 | Cell: 505-787-7784 **XTO ENERGY** a subsidiary of ExxonMobil 6401 Holiday Hill Rd, Midland TX 79701

From: Goetze, Phillip, EMNRD [mailto:Phillip.Goetze@state.nm.us]

Sent: Tuesday, May 29, 2018 12:22 PM

To: Kardos, Kelly <Kelly Kardos@xtoenergy.com>; Kemp, Deeann <Deeann Kemp@xtoenergy.com>

Cc: Klein, Ranell, EMNRD < Ranell. Klein@state.nm.us> **Subject:** Change Order for Remuda Basin SWD No. 1

RE: Remuda Basin SWD No. 1; API 30-015-44388; SWD-pending

Folks:

The District denied the change order for the surface casing since the order has not been issued. If XTO wishes to change the well construction, please provide me an updated proposed well diagram (via e-mail) to be included in the SWD application. XTO will still have to resubmit a C-103 once the order is signed by the Director who will be retuning next week. PRG

Phillip Goetze, PG

Engineering Bureau, Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive, Santa Fe, NM 87505

Direct: 505.476.3466

E-mail: phillip.goetze@state.nm.us

