District I
1625 N. French Dr , Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St Francis Dr, Santa Fe, NM 87505

Date: 07/01/08

* Attach Additional Sheets If Necessary

Phone: 505-333-3100

State of New Mexico **Energy Minerals and Natural Resources**

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

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

Incident # nLmb 0928151138

Λ (1	Rele	ease Notific	ation	and Co	rrective A	ction						
		0-015-		60		OPERA	TOR		Initi	al Report	\boxtimes	Final Report		
Name of Co							m Champlin							
Address #3), Aztec,	NM 87410			No. (505) 566-7	954						
Facility Nan	ne WFF	ederal 1 #1				Facility Typ	e Gas Well							
Surface Own	ner BLM			Mineral C	wner				Lease N	No. NMNN	[1015	52		
		l l				OF REI	LEASE			County				
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line					
K	01	30N	14W	1940	South	South 1520 Wes				San Juan				
ì		1	Latitud	e 36.84101096	33	Longitude	-108.2641970)39		RCVD.				
			Datitud					<u>,,,,</u>	_	OIL CO	NS. C	IV.		
				NAT	URE	OF RELI			T		<u>CT o</u>			
Type of Relea							Release Approx Tour of Occurrence			Recovered did Hour of Di				
		ř.					ime unknown			7 8:30 AM		у		
Was Immedia	ite Notice (—		If YES, To								
		· 🔀	Yes	No Not Re	equired	Mark Kell	Powell- OCD y- BLM							
By Whom?							lour 07/16/07 3:							
Was a Watero	course Read		—	3.7		If YES, Volume Impacting the Watercourse.								
	Yes No Approximately 40 bbl													
If a Watercou								• .						
				ered an unnamed he produced wat										
				king with the BL										
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*□ A lea	se opera	ator noticed	a release of prod	luced wa	ter locati	on on July 1	16, 200	7. The		
tubing on loc	ation pum	ps into a filte	er pot and	then into the wa	ter pipe	eline. The fil	ter pot is equipp	ed with	a seconda	ry containn	nent sy	stem using		
a pressure re	lugged un	tnat opens at causing the so	a preset p econdary	oressure and send containment valv	is the w	ater around en, sending t	the inter pot to d	uuai 400 lual rect	parrei ia angular t	y down rect anks hynass	anguia sing th	e filter not.		
These tanks	filled up a	nd ran over r	eleasing a	pproximately 50	barrels	of produced	l water. The pro	duced w	vater was	released ru	nning	off location		
				y wash. Approp	riate no	tifications w	ere made. Dry v	veather (conditions	s caused the	water	to be		
absorbed int Describe Are														
				ted to determine	treatme	ent of affected	d areas. Gypsun	n will be	applied a	nd worked	into th	e alluvium		
for displacen	nent of sod	lium and chlo	ride ions.	•										
200 lbs of gy May, 2008.				side of the locati	on to th	e end of the	release in the wa	sh in Se	ptember,	2007. Area	was re	esampled in		
Wiay, 2008. A	All results	are included.	1											
				is true and comp										
				nd/or file certain r										
				ce of a C-141 report investigate and re										
				otance of a C-141										
federal, state,														
	./ .	λ.	_	ı			OIL CON	SERV.	<u>ATION</u>	DIVISIO	<u>N</u>			
Signature:	Kun	Char	nsCe	en										
Printed Name	: Kim Ch	}	<i>/</i>			Approved by	District Supervis	or: 05	1	Fill	For:	Charlie Perrit		
Title: Enviro	onmental F	Representativ	e			Approval Dat	e: 7/2/08	 E	expiration	Date:				
		-							_					
E-mail Addre	ss: Kim (<u>hamplin@x</u>	toenergy.	com		Conditions of	Approval:			Attached				

CATION / ANION ANALYSIS

Client:	XTO Energy	Project #:	98031-121
Sample ID:	WF Fed 1-1 B	Date Reported:	07-18-07
Laboratory Number:	42451	Date Sampled:	07-17-07
Chain of Custody:	3002	Date Received:	07-17-07
Sample Matrix:	Soil Extract	Date Extracted:	07-17-07
Preservative:	Cool	Date Analyzed:	07-18-07
Condition:	Cool & Intact		

_	Analytical			
Parameter	Result	Units		
рН	9.41	s.u.		
Conductivity @ 25° C	854	umhos/cm		
Total Dissolved Solids @ 180C	568	mg/L		
Total Dissolved Solids (Calc)	556	mg/L		
SAR	15.2	ratio		
Total Alkalinity as CaCO3	70.8	mg/L		
Total Hardness as CaCO3	33.3	mg/L		
Bicarbonate as HCO3	70.8	mg/L	1.16	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.48	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	289	mg/L	8.15	meq/L
Fluoride	0.83	mg/L	0.04	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	9.03	mg/L	0.19	meq/L
Iron	1.89	mg/L	0.07	meq/L
Calcium	6.93	mg/L	0.35	meq/L
Magnesium	3.90	mg/L	0.32	meq/L
Potassium	1.18	mg/L	0.03	meq/L
Sodium	202	mg/L	8.79	meq/L
Cations			9.55	meq/L
Anions			9.55	meq/L
Cation/Anion Difference			0.01%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: WF Fed 1-1

Analyst · · · · · · · · ·

Review

BlubVall

CATION / ANION ANALYSIS

Client:	XTO Energy	Project #:	98031-121
Sample ID:	WF Fed 1-1 M	Date Reported:	07-18-07
Laboratory Number:	42452	Date Sampled:	07-17-07
Chain of Custody:	3002	Date Received:	07-17-07
Sample Matrix:	Soil Extract	Date Extracted:	07-17-07
Preservative:	Cool	Date Analyzed:	07-18-07
Condition:	Cool & Intact		

	Analytical	-		
Parameter	Result	Units		
pH	9.25	s.u.		
Conductivity @ 25° C	1,080	umhos/cm		
Total Dissolved Solids @ 180C	660	mg/L		
Total Dissolved Solids (Calc)	654	mg/L		
SAR	6.4	ratio		
Total Alkalinity as CaCO3	120	mg/L		
Total Hardness as CaCO3	154	mg/L		
Bicarbonate as HCO3	120	mg/L	1.97	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.23	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	299	mg/L	8.43	meq/L
Fluoride	1.62	mg/L	0.09	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	41.0	mg/L	0.85	meq/L
Iron	3.26	mg/L	0.12	meq/L
Calcium	26.1	mg/L	1.30	meq/L
Magnesium	21.6	mg/L	1.78	meq/L
Potassium	9.94	mg/L	0.25	meq/L
Sodium	181	mg/L	7.89	meq/L
Cations			11.34	meq/L
Anions			11.34	meq/L
Cation/Anion Difference			0.02%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: WF Fed 1-1

Analyst

Review



CATION / ANION ANALYSIS

Client:	XTO Energy	Project #:	98031-121
Sample ID:	WF Fed 1-1 T	Date Reported:	07-18-07
Laboratory Number:	42453	Date Sampled:	07-17-07
Chain of Custody:	3002	Date Received:	07-17-07
Sample Matrix:	Soil Extract	Date Extracted:	07-17-07
Preservative:	Cool	Date Analyzed:	07-18-07
Condition:	Cool & Intact		

	Analytical			
Parameter	Result	Units		
рН	9.41	s.u.		
Conductivity @ 25° C	702	umhos/cm		
Total Dissolved Solids @ 180C	452	mg/L		
Total Dissolved Solids (Calc)	448	mg/L		
SAR	9.5	ratio		
Total Alkalinity as CaCO3	57.6	mg/L		
Total Hardness as CaCO3	41.0	mg/L		
Bicarbonate as HCO3	57.6	mg/L	0.94	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	3.53	mg/L	0.06	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	116	mg/L	3.27	meq/L
Fluoride	0.91	mg/L	0.05	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	133	mg/L	2.77	meq/L
Iron	1.64	mg/L	0.06	meq/L
Calcium	10.9	mg/L	0.54	meq/L
Magnesium	3.35	mg/L	0.28	meq/L
Potassium	5.19	mg/L	0.13	meg/L
Sodium	140	mg/L	6.08	meq/L
Cations			7.09	meg/L
Anions			7.09	meq/L
Cation/Anion Difference			0.03%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: WF Fed 1-1

Analyst

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

Pul Dull

Client:			Project Name / Lo										ANA	LYSIS	/ PAR	RAME ⁻	ΓERS					
XTO FUER (Client Address: @ xto Lisa_Wim * (E	24	_	WFFed	1-1					1 -	1	1	1	1			1	} 	1			Т	-
Client Address: @ x+	o energy	.com	Sampler Name:	1				15)	021)	(09)												
	2-m au		K. Hoek	5+ra				8 8	9 pc	d 82	als	_		٩								75
Client Phone No ·	,		Client No. 98	531-	121			Methoc	(Metho	Method	RCRA 8 Metals	/ Anio		TCLP with H/P		118 1)					Sample Cool	e Intac
Sample No./ Identification	Sample Date	Samp	Lab No.	Sample Matrix	No./Volum of Container			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA	Cation / Anıon	RCI	TCLP	РАН	TPH (418 1)					Sampl	Sample Intact
WF FED 1-1 BG	7-17	8:15 A	m 42450	50.1	1 bac							/					-				~	V
WFFED 1-1 B	7-17	Y:37	Am 42451									V									~	/
WFFED 1-1 M	7-17	8:28	AM 42452									~								\		/
WF FED 1-1 T	7-17	8:25	am 42453	上	1							/				-					/	V
															:							
																						:
															,							
Relinquished by (Signa	ature)	_			Date	Tin		Receiv	ed by:	(Signa	ature)	\sim \sim	·		~ D 10	L	<u> </u>	<u>.</u>	Da	ite 1/07		me
Reinquished by: (Signa	ature)	<u>. </u>		-	1-11-01	10-	וייי	Peceiv	ed by	(Signa	ature)	' 	<i>/</i>	<u> </u>					14.	7		
Relinquished by (Sign	ature)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Receiv	ed by	(Signa	ature)											
				<u>'</u>		ID/			<u>`</u> ∟		\										J	
					-1 7	バ		<u> </u>	ノロ			I										
			5796	U.S. Hig	hway 64	Farn	nıngto	n, New	Mexic	o 8740	01• (50	- 05) 63:	2-0615	; ;								

CATION / ANION ANALYSIS

Client:	XTO Energy	Project #:	98031-0121
Sample ID:	WF Fed 1 #1 B-RS	Date Reported:	05-12-08
Laboratory Number:	45333	Date Sampled:	05-06-08
Chain of Custody:	4341	Date Received:	05-06-08
Sample Matrix:	Soil Extract	Date Extracted:	05-07-08
Preservative:		Date Analyzed:	05-08-08
Condition:	Intact	•	

	Analytical			
Parameter	Result	Units		
pH	9.40	s.u.		
Conductivity @ 25° C	273	umhos/cm		
Total Dissolved Solids @ 180C	176	mg/L		
Total Dissolved Solids (Calc)	166	mg/L		
SAR	4.6	ratio		
Total Alkalinity as CaCO3	72.0	mg/L		,
Total Hardness as CaCO3	19.7	mg/L		
Bicarbonate as HCO3	72.0	mg/L	1.18	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	2.5	mg/L	0.04	meq/L
Nitrite Nitrogen	0.005	mg/L	0.00	meq/L
Chloride	20.0	mg/L	0.56	meq/L
Fluoride	0.83	mg/L	0.04	meq/L
Phosphate	14.3	mg/L	0.45	meq/L
Sulfate	27.2	mg/L	0.57	meg/L
Iron	8.97	mg/L	0.32	meq/L
Calcium	4.56	mg/L	0.23	meq/L
Magnesium	2.03	mg/L	0.17	meq/L
Potassium	3.75	mg/L	0.10	meq/L
Sodium	46.8	mg/L	2.04	meq/L
Cations		,	2.85	meg/L
Anions			2.85	meq/L
Cation/Anion Difference			0.04%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: WF Fed 1 #1.

Analyst

Mustinem Walters
Review



CATION / ANION ANALYSIS

Client:	XTO Energy	Project #:	98031-0121
Sample ID:	WF Fed 1 #1 M-RS	Date Reported:	05-12-08
Laboratory Number:	45334	Date Sampled:	05-06-08
Chain of Custody:	4341	Date Received:	05-06-08
Sample Matrix:	Soil Extract	Date Extracted:	05-07-08
Preservative:		Date Analyzed:	05-08-08
Condition:	Intact		

	Analytical			
Parameter	Result	Units		
рН	9.25	s.u.		
Conductivity @ 25° C	352	umhos/cm		
Total Dissolved Solids @ 180C	230	mg/L		
Total Dissolved Solids (Calc)	197	mg/L		
SAR	6.3	ratio		
Total Alkalinity as CaCO3	74.0	mg/L		
Total Hardness as CaCO3	17.5	mg/L	,	
Bicarbonate as HCO3	74.0	mg/L	1.21	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	1.0	mg/L	0.02	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	19.0	mg/L	0.54	meq/L
Fluoride	<0.1	mg/L	0.00	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	61.8	mg/L	1.29	meq/L
Iron	0.37	mg/L	0.01	meq/L
Calcium	6.92	mg/L	0.35	meq/L
Magnesium	0.05	mg/L	0.00	meq/L
Potassium	2.51	mg/L	, 0.06	meq/L
Sodium	60.3	mg/L	2.62	meq/L
Cations			3.05	meq/L
Anions			3.05	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: WF Fed 1 #1.

Analyst

(husten m Wroten Réview

CATION / ANION ANALYSIS

Client:	XTO Energy	Project #:	98031-0121				
Sample ID:	WF Fed 1 #1 T-RS	Date Reported:	05-12-08				
Laboratory Number:	45335	Date Sampled:	05-06-08				
Chain of Custody:	4341	Date Received:	05-06-08				
Sample Matrix:	Soil Extract	Date Extracted:	05-07-08				
Preservative:		Date Analyzed:	05-08-08				
Condition:	Intact						

	Analytical			
Parameter	Result	Units		
pH	9.16	s.u.		
Conductivity @ 25° C	343	umhos/cm		
Total Dissolved Solids @ 180C	260	mg/L		
Total Dissolved Solids (Calc)	234	mg/L		
SAR	6.3	ratio		
Total Alkalinity as CaCO3	58.0	mg/L		
Total Hardness as CaCO3	23.6	mg/L		
Bicarbonate as HCO3	58.0	mg/L	0.95	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	3.7	mg/L	0.06	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	32.0	mg/L	0.90	meq/L
Fluoride	0.43	mg/L	0.02	meq/L
Phosphate	17.3	mg/L	0.55	meq/L
Sulfate	63.0	mg/L	1.31	meq/L
Iron	5.15	mg/L	0.18	meq/L
Calcium	7.37	mg/L	0.37	meq/L
Magnesium	1.26	mg/L	0.10	meq/L
Potassium	3.25	mg/L	0.08	meq/L
Sodium	70.2	mg/L	3.05	meq/L
Cations			3.79	meg/L
Anions			3.79	meq/L
Cation/Anion Difference			0.03%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: WF Fed 1 #1.

nalyst

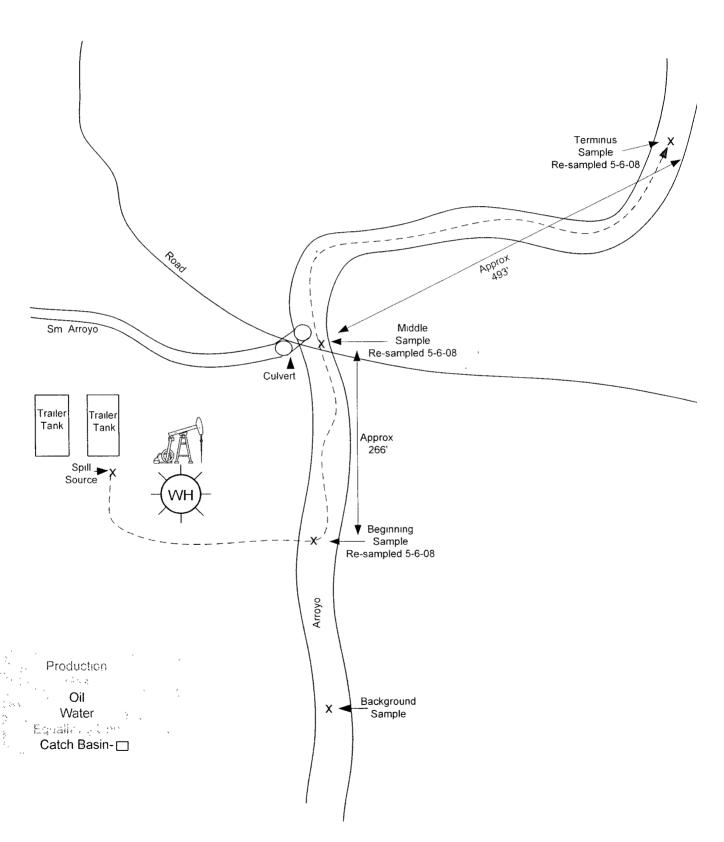
(Mestre m Walkers Réview

CHAIN OF CUSTODY RECORD

Client: Project Name / Location: XTO Energy WF PED 1#1							ANALYSIS / PARAMETERS															
Client Address: Sampler Name: KAT WOFKST						954	3	015)	8021)	3260)												
Client Phone No.: Client No.: 9803/-/:			-	z)			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)					Sample Cool	Sample Intact	
Sample No./ Identification	Sample Date	Sampl Time	e Lab No.	Sample Matrix	No./Volum of Containers	_		TPH (I	втех	NOC (RCRA	Cation	RCI	TCLP	РАН	TPH (Sampl	Sampl
WF FEO 1 #1 B-RS	5/6/08	<i>))</i> 00	45333	Soil	1-60g							/										r
WF FED 1 #1 M-RS		1105	45 334	((V										٧_
WFFED141 T-RS	<u>)</u>	1110	45335	2)							~										٧-
	:																					
Relinquished by (Signature) Date Time 5-6-08 3:25 pm		F	Received by: (Signature) Received by: (Signature)										ate 1/88	Time 1525								
Relinquished by: (Signa	ture)					1	F	Receive	ed by:	(Signa	ature)				1							
Relinquished by: (Signature)				Receive	ed by:	(Signa	ature)															
E-MAIL RESULTS TO: MARTIN NEE C XTO ENERGY. COM ENVIROTECHIO. 5796 U.S. Highway 64 · Farmington, New Mexico 87401 · (505) 632-0615																						

Well Name. WF Federal 1 # 1 Re-Sampled Arroyo 5-6-08





1.1948