District 1 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

Date⁻

05/22/08

Phone 505-333-3207

State of New Mexico Energy Minerals and Natural Resources

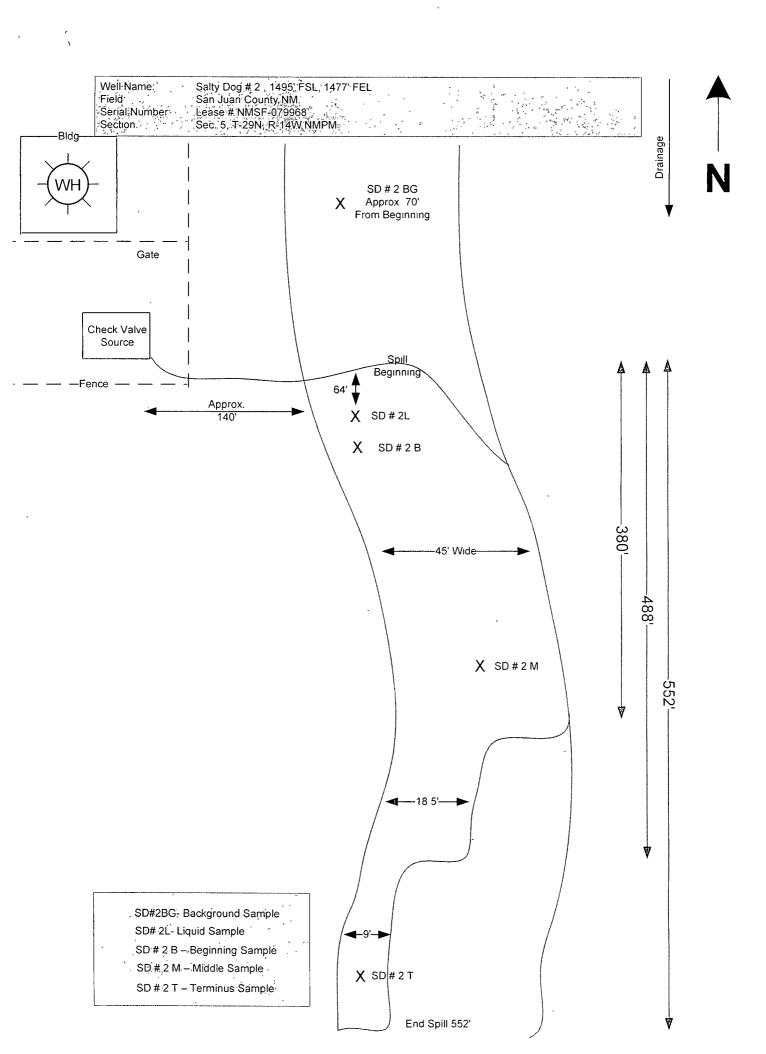
Oil Conservation Division 1220 South St. Francis Dr. Revised October 10, 2003

Form C-141

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

1220 S St. Fran	cis Dr., Santi	a re, NW 8/303)	Sa	ınta Fe	e, NM 875	05					side of form
			Rele	ease Notific				ction				
30-0	30-045-30812				OPER!	ATOR		Initia	al Report	\boxtimes	Final Report	
		TO Energy	Inc.		(m Champlin					
		y Road 3100)			Telephone N	No. (505) 333-3	207				
Facility Nar	Aztec, NM ne Salty l					Facility Typ	e Salt Water I	Disposal				
Surface Ow				Mineral C						lo. NMSF	0799 <i>i</i>	68
Surface Ow	ner reuei					LOEDEI	EACE		<u>Leuse 1</u>	10.111101	01770	
Unit Letter	Section	Township	Range	Feet from the		N OF REI	Feet from the	East/We	est Line	County		
J	05	29N	14W	1495	South		1477	East		San Juan		
J	1 05	29N	14**			T	<u> </u>	Last		San Juan		
				Latitud		Longitude						
Type of Rele	aca Produ	cod Water		NAT	URE	OF REL	EASE Release Approx	500	Volume	Recovered	Appr	ov 80 bbl
						bbl						
Source of Re	lease Pipe	line					lour of Occurrenc ime unknown	e		d Hour of Di 7 8:45 PM	iscovei	ry
Was Immedia	ate Notice (_		If YES, To	Whom ⁹			CUD HAY	23 4	05
		\boxtimes	Yes	No Not R	equired	Brandon Powell- OCD Mark Kelly- BLM BY COMS. DIV.			V.			
By Whom'?						Date and F	lour 07/09/07 9:			n:c:	3	
Was a Water	course Rea		Yes 🔲	No			olume Impacting t ately 400 bbl	the Water	course			
If a Watercourse was Impacted, Describe Fully.* Approximately 400 bbl of produced water entered an unnamed dry wash adjacent to the location and traveled approximately 300 yards down the wash. Due to recent dry weather conditions the produced water was absorbed into the wash bed. Samples were collected along the area of the wash where the impact occurred. XTO is working with the BLM on treating the elevated chlorides within the impacted areas with gypsum. Describe Cause of Problem and Remedial Action Taken * A lease operator noticed a water leak on location during a routine visit on July 8, 2007. The leak was discovered in a water can cellar where multiple lines merge. The leaking pipeline was isolated and repaired. Approximately 500 barrels of produced water was released running off location approximately 140 feet into an unnamed dry wash. Appropriate notifications were made and a vac truck dispatched. Approximately 80 barrels of water was recovered from inside the water can cellar. Dry weather conditions caused the rest of the water to be absorbed into the ground on location and in the wash bed.												
		and Cleanup A		ken.* ation. Samples v	vere coll	ected and B	LM was contacte	ed to dete	rmine tr	eatment of a	affecte	ed areas.
				alluvium for disp								
XTO applied 800 lbs of gypsum to the affected areas- the south side of the location to the end of the spill in the wash. The area was resampled once weather allowed. Lab data for both sample events and a diagram are included.												
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
Signature Kin Chempla												
Printed Name	e Kim Ch	iamplin	U			Approved by	District Supervis	sor:	Harc	MIKL	Mm	
		Representativ	ve			Approval Da	te: 2/07/2	12/	xpiration	Date:		
E-mail Address: Kim Champfin@\toenergy.com					Conditions o	f Approval	-		Attached			

nJR1203848011



Client:	XTO Energy	Project #:	98031-121
Sample ID:	SD #2BG	Date Reported:	07-10-07
Laboratory Number:	42352	Date Sampled:	07-09-07
Chain of Custody:	2966	Date Received:	07-09-07
Sample Matrix:	Soil Extract	Date Extracted:	07-09-07
Preservative:	Cool	Date Analyzed:	07-10-07
Condition:	Cool & Intact		

	Analytical	And the second s		The second secon
Parameter	Result	Units		
рН	9.25	s.u.		
Conductivity @ 25° C	151	umhos/cm		
Total Dissolved Solids @ 180C	67.2	mg/L		
Total Dissolved Solids (Calc)	65.5	mg/L		
SAR	0.4	ratio		
Total Alkalinity as CaCO3	27.2	mg/L		
Total Hardness as CaCO3	40.1	mg/L		
Bicarbonate as HCO3	27.2	mg/L	0.45	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	2.12	mg/L	0.03	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	16.0	mg/L	0.45	meq/L
Fluoride	0.32	mg/L	0.02	meq/L
Phosphate	0.48	mg/L	0.02	meq/L
Sulfate	9.79	mg/L	0.20	meq/L
Iron	0.256	mg/L	0.01	meq/L
Calcium	1.79	mg/L	0.09	meq/L
Magnesium	8.70	mg/L	0.72	meq/L
Potassium	4.19	mg/L	0.11	meq/L
Sodium	5.60	mg/L	0.24	meq/L
Cations			1.17	meq/L
Anions			1.17	meq/L
Cation/Anion Difference	ı		0.17%	

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: Salty Dog #2



Client:	XTO Energy	Project #:	98031-121
Sample ID:	SD #2B	Date Reported:	07-10-07
Laboratory Number:	42350	Date Sampled:	07-09-07
Chain of Custody:	2966	Date Received:	07-09-07
Sample Matrix:	Soil Extract	Date Extracted:	07-09-07
Preservative:	Cool	Date Analyzed:	07-10-07
Condition:	Cool & Intact		

	Analytical			•
Parameter	Result	Units		
рН	7.85	s.u.		
Conductivity @ 25° C	10,640	umhos/cm		
Total Dissolved Solids @ 180C	5,420	mg/L		
Total Dissolved Solids (Calc)	5,440	mg/L		
SAR	34.9	ratio		
Total Alkalinity as CaCO3	130	mg/L		
Total Hardness as CaCO3	515	mg/L		
Bicarbonate as HCO3	130	mg/L	2.13	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	3.60	mg/L	0.06	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	2,500	mg/L	70.53	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	2.50	mg/L	80.0	meq/L
Sulfate	821	mg/L	17.09	meq/L
Iron	0.011	mg/L	0.00	meq/L
Calcium	170	mg/L	8.48	meq/L
Magnesium	21.9	mg/L	1.80	meq/L
Potassium	18.3	mg/L	0.47	meq/L
Sodium	1,820	mg/L	79.17	meq/L
Cations			89.92	meq/L
Anions			89.89	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: Salty Dog #2

Analyst P. Copier

Mustine of Walters Review



Client:	XTO Energy	Project #:	98031-121
Sample ID:	SD #2M	Date Reported:	07-10-07
Laboratory Number:	42349	Date Sampled:	07-09-07
Chain of Custody:	2966	Date Received:	07-09-07
Sample Matrix:	Soil Extract	Date Extracted:	07-09-07
Preservative:	Cool	Date Analyzed:	07-10-07
Condition:	Cool & Intact		

	Analytical	The state of the s		
Parameter	Result	Units		
рН	8.38	s.u.		
Conductivity @ 25° C	6,880	umhos/cm	,	
Total Dissolved Solids @ 180C	3,310	mg/L		
Total Dissolved Solids (Calc)	3,370	mg/L		
SAR	19.7	ratio		
Total Alkalinity as CaCO3	45.6	mg/L	-	
Total Hardness as CaCO3	534	mg/L		•
Bicarbonate as HCO3	45.6	mg/L	0.75	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	1.10	mg/L	0.02	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	1,650	mg/L	46.55	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	1.90	mg/L	0.06	meq/L
Sulfate	454	mg/L	9.45	meq/L
Iron	0.001	mg/L	0.00	meq/L
Calcium	77.2	mg/L	3.85	meq/L
Magnesium	83.3	mg/L	6.85	meq/L
Potassium	20.4	mg/L	0.52	meq/L
Sodium	1,050	mg/L	45.68	meq/L
Cations			56.90	meq/L
Anions			56.82	meq/L
Cation/Anion Difference			0.14%	

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: Salty Dog #2

Analyst C. Oglina

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Review



Client:	XTO Energy	Project #:	98031-121
Sample ID:	SD #2T	Date Reported:	07-10-07
Laboratory Number:	42351	Date Sampled:	07-09-07
Chain of Custody:	2966	Date Received:	07-09-07
Sample Matrix:	Soil Extract	Date Extracted:	07-09-07
Preservative:	Cool	Date Analyzed:	07-10-07
Condition:	Cool & Intact		

	Analytical			
Parameter	Result	Units		
рН	7.46	s.u.		
Conductivity @ 25° C	6,710	umhos/cm		
Total Dissolved Solids @ 180C	3,280	mg/L		
Total Dissolved Solids (Calc)	3,290	mg/L		
SAR	9.5	ratio		
Total Alkalinity as CaCO3	37.4	mg/L		
Total Hardness as CaCO3	1,210	mg/L		
Bicarbonate as HCO3	37.4	mg/L	0.61	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	1.59	mg/L	0.03	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	1,910	mg/L	53.88	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	27.4	mg/L	0.87	meq/L
Sulfate	157	mg/L	3.27	meq/L
Iron	0.008	mg/L	0.00	meq/L
Calcium	173	mg/L	8.63	meq/L
Magnesium	191	mg/L	15.72	meq/L
Potassium	45.9	mg/L	1.17	meq/L
Sodium	762	mg/L	33.15	meq/L
Cations			58.67	meq/L
Anions			58.65	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: Salty Dog #2

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	XTO Energy	Project #:	98031-0121
Sample ID:	SD #2 B RS	Date Reported:	05-12-08
Laboratory Number:	45336	Date Sampled:	05-06-08
Chain of Custody:	4342	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	8.38	s.u.		
Conductivity @ 25° C	432	umhos/cm		
Total Dissolved Solids @ 180C	328	mg/L		
Total Dissolved Solids (Calc)	268	mg/L		
SAR	3.4	ratio		
Total Alkalinity as CaCO3	34.0	mg/L		
Total Hardness as CaCO3	68.7	mg/L		
Bicarbonate as HCO3	34.0	mg/L	0.56	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	1.2	mg/L	0.02	meq/L
Nitrite Nitrogen	0.003	mg/L	0.00	meq/L
Chloride	88.0	mg/L	2.48	meq/L
Fluoride	0.41	mg/L	0.02	meq/L
Phosphate	5.0	mg/L	0.16	meq/L
Sulfate	56.0	mg/L	1.17	meq/L
Iron	1.71	mg/L	0.06	meq/L
Calcium	24.5	mg/L	1.22	meq/L
Magnesium	1.84	mg/L	0.15	meq/L
Potassium	4.45	mg/L	0.11	meq/L
Sodium	65.7	mg/L	2.86	meg/L
Cations			4.41	meg/L
Anions			4.40	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: SD #2.

Analyst

Mustum Wasters
Review



Client:	XTO Energy	Project #:	98031-0121
Sample ID:	SD #2 M RS	Date Reported:	05-14-08
Laboratory Number:	45337	Date Sampled:	05-06-08
Chain of Custody:	4342	Date Received:	05-06-08
Sample Matrix:	Soil Extract	Date Extracted:	05-11-08
Preservative:		Date Analyzed:	05-12-08
Condition:	Intact		

	Analytical			
Parameter	Result	Units		
pН	8.58	s.u.		
Conductivity @ 25° C	82.6	umhos/cm		
Total Dissolved Solids @ 180C	64.0	mg/L		
Total Dissolved Solids (Calc)	62.5	mg/L		
SAR	2.4	ratio		
Total Alkalinity as CaCO3	12.0	mg/L		
Total Hardness as CaCO3	9.6	mg/L		
Bicarbonate as HCO3	12.0	mg/L	0.20	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	1.3	mg/L	0.02	meq/L
Nitrite Nitrogen	800.0	mg/L	0.00	meq/L
Chloride	11.0	mg/L	0.31	meq/L
Fluoride	0.37	mg/L	0.02	meq/L
Phosphate	6.1	mg/L	0.19	meq/L
Sulfate	14.7	mg/L	0.31	meq/L
Iron	2.95	mg/L	0.11	meq/L
Calcium	2.56	mg/L	0.13	meq/L
Magnesium	0.79	mg/L	0.07	meq/L
Potassium	1.52	mg/L	0.04	meq/L
Sodium	16.9	mg/L	0.74	meq/L
Cations			1.07	meq/L
Anions			1.05	meq/L

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: SD #2.

Analyst

Cation/Anion Difference

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2.47%

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTIER TOMORROW

CATION / ANION ANALYSIS

Client:	XTO Energy	Project #:	98031-0121
Sample ID:	SD #2 T RS	Date Reported:	05-14-08
Laboratory Number:	45338	Date Sampled:	05-06-08
Chain of Custody:	4342	Date Received:	05-06-08
Sample Matrix:	Soil Extract	Date Extracted:	05-11-08
Preservative:		Date Analyzed:	05-12-08
Condition:	Intact		

	Analytical			
Parameter	Result	Units		
pH	8.49	s.u.		
Conductivity @ 25° C	98.1	umhos/cm		
Total Dissolved Solids @ 180C	54.0	mg/L		
Total Dissolved Solids (Calc)	53.4	mg/L		
SAR	2.6	ratio		
Total Alkalinity as CaCO3	9.2	mg/L		
Total Hardness as CaCO3	7.6	mg/L		
Bicarbonate as HCO3	9.2	mg/L	0.15	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	0.9	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	12.0	mg/L	0.34	meq/L
Fluoride	0.37	mg/L	0.02	meq/L
Phosphate	3.2	mg/L	0.10	meq/L
Sulfate	11.0	mg/L	0.23	meq/L
iron	1.86	mg/L	0.07	meq/L
Calcium	2.12	mg/L	0.11	meq/L
Magnesium	0.56	mg/L	0.05	meq/L
Potassium	1.24	mg/L	0.03	meg/L
Sodium	16.4	mg/L	0.71	meq/L
Cations			0.96	meq/L
Anions			0.85	meq/L
Cation/Anion Difference		,	12.88%	

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: SD #2.

Analyst

Mustrum Woolen
Review