

State of Colorado Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109

FOR OGCC USE ONLY



01630557

EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

FORM SUBMITTED FOR:

Pit Report [X] Pit Permit

Complete the Attachment Checklist

Attachment Checklist table with columns for Attachment Name and Oper OGCC, listing items like Detailed Site Plan, Topo Map, etc.

Main form section containing OGCC Operator Number (100264), Name of Operator (XTO Energy Inc.), Address (382 Road 3100), City (Aztec), State (NM), Zip (87410), and well location details.

Existing Site Conditions

Existing Site Conditions section with checkboxes for Sensitive Area, Land Use (Rangeland), and SOILS (Irigul, Parachute).

Pit Design and Construction

Pit Design and Construction section with fields for pit size (Length: 175, Width: 100, Depth: 17), capacity (52,983 bbls/day), and construction details.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

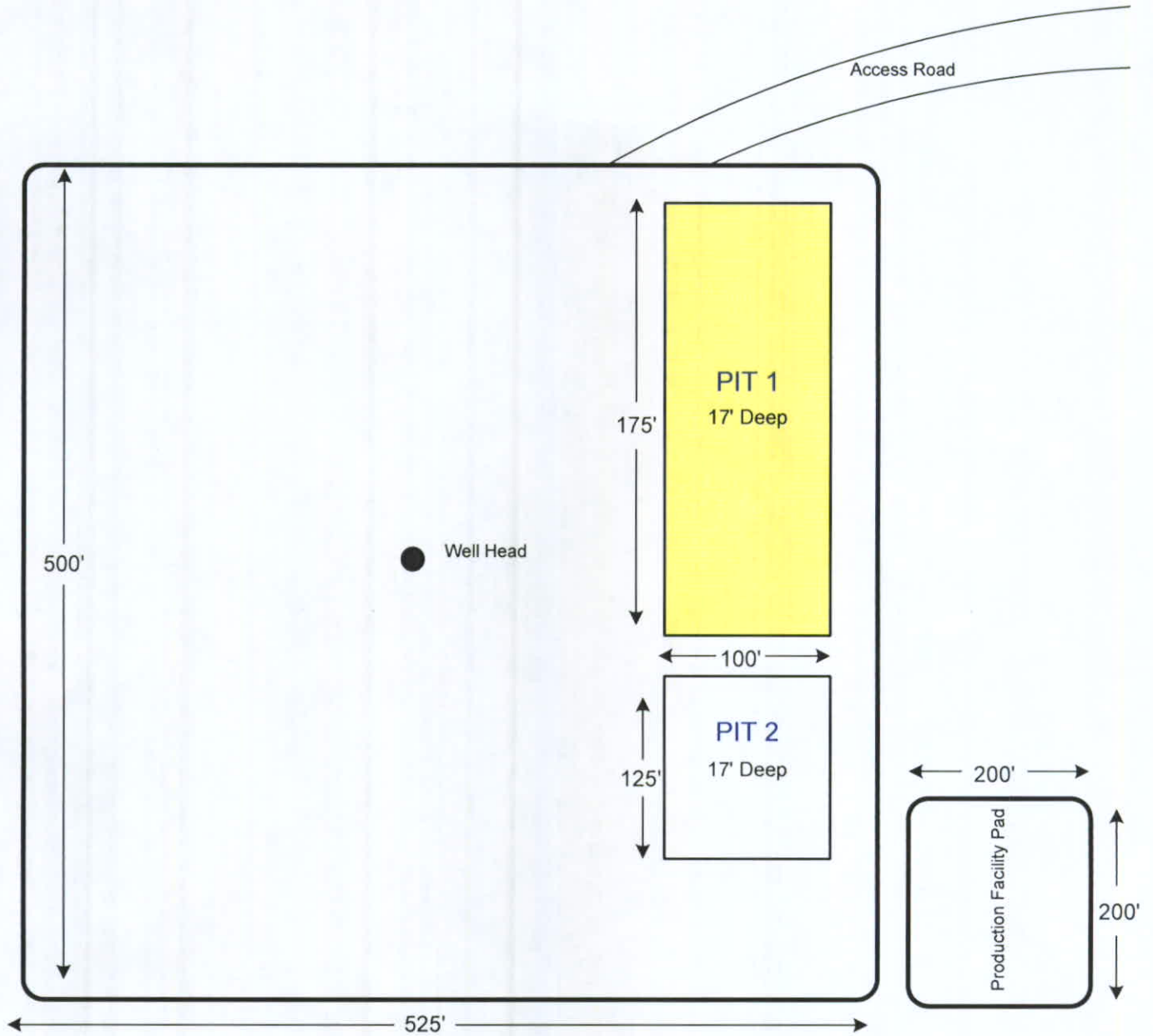
Print Name: Kelly K. Small, Signed: Kelly K. Small, Title: Regulatory Compliance, Date: 03/10/09, OGCC Approved: Chris Campbell, Title: EPS NW Region, Date: 11/6/09

CONDITIONS OF APPROVAL, IF ANY:

Facility Number: 414349

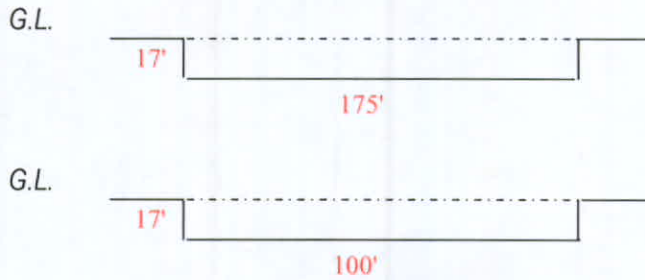
VAX

FEDERAL #2S-95-15-22  
SENW SEC. 15, T2S, R95W  
NAD83  
LAT: 39.878250  
LONG: 108.045214



**PIT 1**  
**Pit Design Plan & Calculations**  
**Federal #2S-95-15-22**  
**05-103-10655**

**Cross-Section**



**Calculations**

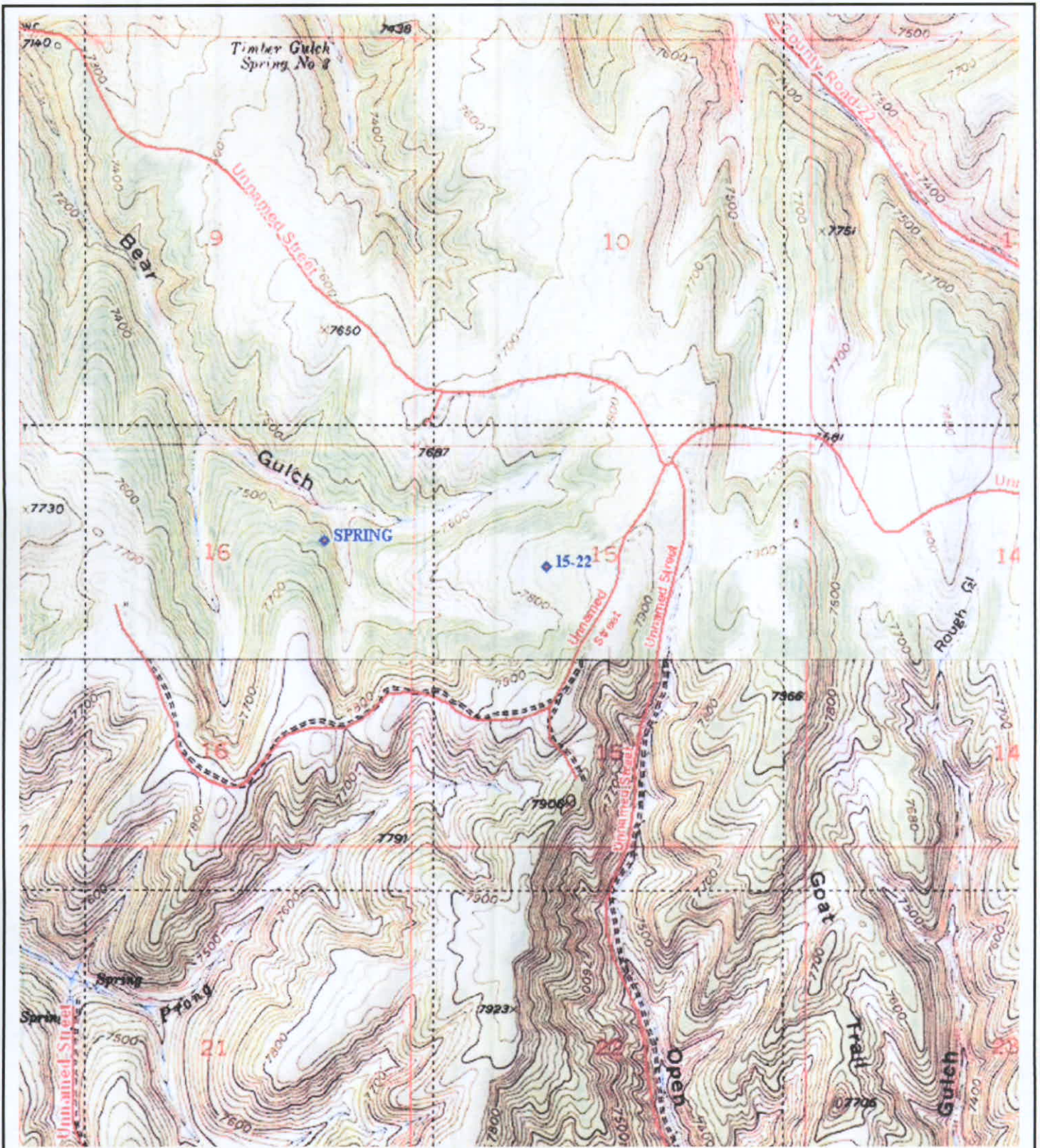
<u>Volume =</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>DEPTH</u>	<u>Bbls</u>
	175	100	17	52983

<u>Evaporation</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>ft<sup>2</sup></u>
(Based on 40"/yr)	175	100	17500
			<u>Bbls/Day</u>
			28.5

Percolation    N/A

*Per Lee Neve, rates range from 0 to 6" per hour. Disturbed soil, such as in a pit may have increased permeability. A common soil description is .6 to 2" per hour. For these calculations I have used .6" per hour or 1.2 ft/day.*

ft<sup>2</sup>                      Bbls/Day



**XTO Energy**

**Federal 2S-95-15-22  
Topographic Map  
1:24,000  
XTO Energy  
Piceance Basin, Colorado**

Drawn By: J. Dooling

Date: March 5, 2009

**SENSITIVE AREA IDENTIFICATION**  
Decision Tree  
Well Name: Federal 2S-95-15-22

**OUTSIDE SENSITIVE AREAS**

Pits must be permitted under Rule 903 and Points of Compliance may be established.

Elevations: 7846'  
Pit Bottom 7829'  
Ground Water 7451'

**BOX 1:** Is discharge water:  
>1.25 x background ppm TDS  
>250 ppm Chloride or background  
>250 ppm Sulfate or background  
>5 ppb Benzene  
> 1,000 ppb Toluene  
>680 ppb Ethylbenzene  
>10,000 ppb Xylenes

TDS > 1.25 X background  
Benzene > 5 ppb

**BOX 2:** Is the location underlain by an unconfined aquifer or recharge zone?

**BOX 3:** Is the hydraulic conductivity of the underlying soils and geologic material less than or equal to 10 minus 6 cm/sec?

**BOX 4A:** Is the **existing** pit location within an area classified by WQCC, or a local (water supply) wellhead protection area (WHPA) as of 7/1/95?

**BOX 4B:** Is the **new** pit location within an area classified by WQCC, or a local (water supply) wellhead protection area (WHPA), at the date of construction?

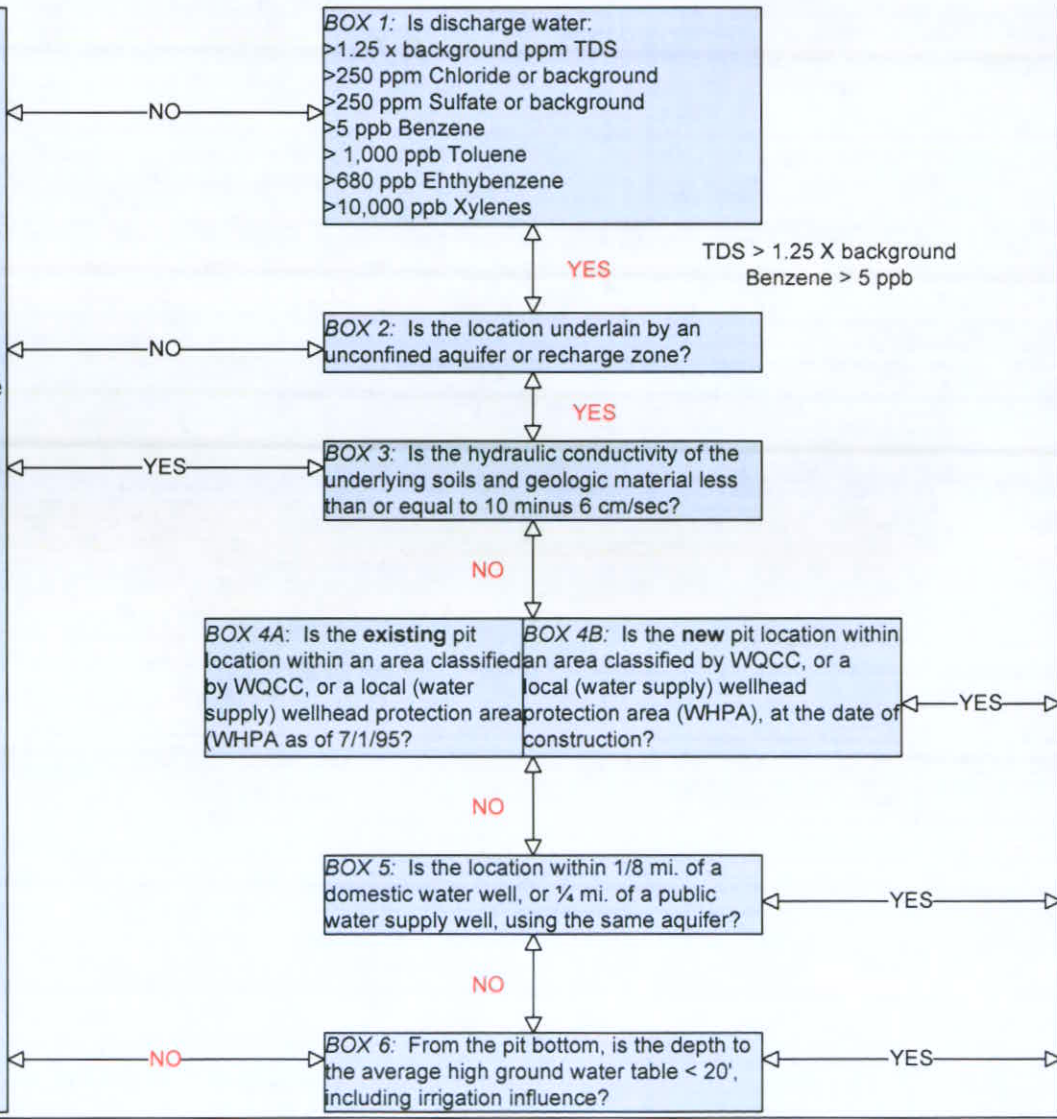
**BOX 5:** Is the location within 1/8 mi. of a domestic water well, or 1/4 mi. of a public water supply well, using the same aquifer?

**BOX 6:** From the pit bottom, is the depth to the average high ground water table < 20', including irrigation influence?

**INSIDE SENSITIVE AREAS**

Unlined pits are not authorized unless the operator demonstrates no significant adverse impact.

Pits must be permitted under Rule 903 and Points of Compliance may be established.





**State of Colorado**  
**Oil and Gas Conservation Commission**



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

**SOURCE OF PRODUCED WATER FOR DISPOSAL**

This form must be completed for any new disposal site and for any change in sources of produced water for an existing disposal site.

**Complete the Attachment Checklist**

OGCC Operator Number: <u>100264</u>	Contact Name and Telephone: <u>KELLY SMALL</u>
Name of Operator: <u>XTO ENERGY INC.</u>	No: <u>505-333-3145</u>
Address: <u>382 ROAD 3100</u>	Fax: <u>1-505-213-0546</u>
City: <u>AZTEC</u> State: <u>NM</u> Zip: <u>87410</u>	

	Oper	OGCC
Chemical Analysis of fluid	X	

OGCC Disposal Facility Number: N/A 414349

Operator's Disposal Facility Name: 2S-95-15-22 PIT 1 Operator's Disposal Facility Number: N/A

Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW SEC. 15, T2S, R95W 6TH P.M.

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ County: RIO BLANCO

If more space is required, attach additional sheet.

**Add Source:** OGCC Lease No: COC061464 API No: 05-103-10635 Well Name & No: FEDERAL #1S-96-23-12  
 Operator Name: XTO ENERGY INC. Operator No: 100264

**Delete Source:** Location: QtrQtr: SWNW Section: 23 Township: 1S Range: 95W Producing Formation: WASATCH-MV  
 Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

**Add Source:** OGCC Lease No: COC061131 API No: 05-103-10918 Well Name & No: FEDERAL #1S-96-9-11BP  
 Operator Name: XTO ENERGY INC. Operator No: 100264

**Delete Source:** Location: QtrQtr: NWNW Section: 9 Township: 1S Range: 96W Producing Formation: MESAVERDE  
 Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

**Add Source:** OGCC Lease No: COC061047 API No: 05-103-10655 Well Name & No: FEDERAL #2S-95-15-22  
 Operator Name: XTO ENERGY INC. Operator No: 100264

**Delete Source:** Location: QtrQtr: SENW Section: 15 Township: 2S Range: 95W Producing Formation: WASATCH-MV  
 Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

**Add Source:** OGCC Lease No: COC061047 API No: 05-103-10957 Well Name & No: FEDERAL #2S-95-16-33DP  
 Operator Name: XTO ENERGY INC. Operator No: 100264

**Delete Source:** Location: QtrQtr: NWSE Section: 16 Township: 2S Range: 95W Producing Formation: WASATCH-MV  
 Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

**Add Source:** OGCC Lease No: COC061047 API No: 05-103-10976 Well Name & No: FEDERAL #2S-95-15-42BP  
 Operator Name: XTO ENERGY INC. Operator No: 100264

**Delete Source:** Location: QtrQtr: SENE Section: 15 Township: 2S Range: 95W Producing Formation: WASATCH-MV  
 Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

**Add Source:** OGCC Lease No: \_\_\_\_\_ API No: \_\_\_\_\_ Well Name & No: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_ Operator No: \_\_\_\_\_

**Delete Source:** Location: QtrQtr: \_\_\_\_\_ Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_ Producing Formation: \_\_\_\_\_  
 Analysis Attached?  Yes  No Transported to disposal site via:  Pipeline  Truck TDS: \_\_\_\_\_

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: KELLY K. SMALL Signed: Kelly K. Small

Title: REGULATORY COMPLIANCE TECH Date: 03/10/2009

OGCC Approved: Chris Canfield Title: EPS NW Area Date: 11/13/09

CONDITIONS OF APPROVAL, IF ANY:

*JAK*



ENVIRONMENTAL  
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01630559

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
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1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Jessica Dooling  
XTO Energy - Piceance Basin Field Office  
4927 County Road 5

Rifle, CO 81650

### Report Summary

Tuesday March 03, 2009

Report Number: L390236

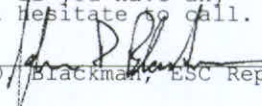
Samples Received: 02/27/09

Client Project: FED 1-96-23-12

Description: Produced Water

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
John D. Blackman, ESC Representative

#### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided  
in laboratory standard operating procedures: 060302, 060303, and 060304.

1 Samples Reported: 03/03/09 15:16 Printed: 03/03/09 15:16

Page 1 of 4



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Mt. Juliet, TN 37122  
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1-800-767-5859  
Fax (615) 758-5859  
Tax I.D. 62-0814289  
Est. 1970

REPORT OF ANALYSIS

March 03, 2009

Jessica Dooling  
XTO Energy - Piceance Basin Field O  
4927 County Road 5  
Rifle, CO 81650

Date Received : February 27, 2009  
Description : Produced Water  
Sample ID : FED 1-96-23-12  
Collected By : Jes Dooling  
Collection Date : 02/25/09 14:20

ESC Sample # : L390236-01

Site ID : FED 1-96-23-12

Project # : FED 1-96-23-12

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Temperature (on-site)	100		Deg. F			
Sulfate	BDL	5.0	mg/l	300.0	02/27/09	1
Alkalinity, Bicarbonate	1600	10.	mg/l	310.2	03/02/09	1
Alkalinity, Carbonate	BDL	10.	mg/l	310.2	03/02/09	1
pH	7.0		su	4500H-B	02/28/09	1
Specific Conductance	17000		umhos/cm	120.1	03/01/09	1
Dissolved Solids	11000	10.	mg/l	2540C	03/03/09	1
Calcium, Dissolved	45.	0.50	mg/l	200.7	03/02/09	1
Magnesium, Dissolved	3.4	0.10	mg/l	200.7	03/02/09	1
Sodium, Dissolved	3800	2.5	mg/l	200.7	03/02/09	5
Benzene	3.4	0.050	mg/l	8021B	02/27/09	100
Toluene	7.6	0.50	mg/l	8021B	02/27/09	100
Ethylbenzene	0.29	0.050	mg/l	8021B	02/27/09	100
Total Xylene	4.4	0.15	mg/l	8021B	02/27/09	100
Surrogate Recovery (%) a, a, a-Trifluorotoluene (PID)	98.9		% Rec.	8021B	02/27/09	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 03/03/09 15:16 Printed: 03/03/09 15:16  
L390236-01 (PH) - 7.0@18.5c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L390236-01	WG409723 WG409833	SAMP SAMP	pH Sodium, Dissolved	R655770 R656765	T8 VJ3

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.
J3	The associated batch QC was outside the established quality control range for precision.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
03/03/09 at 15:16:36

TSR Signing Reports: 151  
R3 - Rush: Two Day

Sample: L390236-01 Account: XTORCO Received: 02/27/09 09:00 Due Date: 03/03/09 00:00 RPT Date: 03/03/09 15:16

Company Name/Address  XTO Energy  4927 County Road 5 Rifle, CO 81650	Alternate Billing		Analysis/Container/Preservative				Chain of Custody Page ___ of ___	
	Report to: Jessica Dooling		PH, SPCON, TDS (1) 500 ml HDPE - No Pres	AIKCA, AIKBA, Sulfate (1) 500ml HDPE - No Pres	Metals: Ca, Mg, Na (1) 250ml HDPE - No Pres	BTEX (2) 40ml amb-hcl		
	E-mail to: jessica_dooling@xtoenergy.com							

Prepare **A010**

**ENVIRONMENTAL Science corp**  
 12065 Lebanon Road  
 Mt. Juliet TN 37122

Phone (615)758-5858  
 Phone (800) 767-5859  
 FAX (615)758-5859

Project Description: <b>Produced Water</b>		Client Project No. <b>Fed 1-96-23-12</b>	Lab Project #
PHONE: (970)878-6800 (970)878-6845	FAX:	Site/Facility ID# <b>Fed 1-96-23-12</b>	P.O.#
Collected by: <b>Jes Dooling</b>	<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified)		Date Results Needed
Collected by (signature):	<input type="checkbox"/> Same Day.....200% <input type="checkbox"/> Next Day.....100% <input checked="" type="checkbox"/> Two Day.....50%		No of Cntrs
Packed on Ice N <b>X</b>	Email? <input type="checkbox"/> No <input type="checkbox"/> Yes		FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes

GoCode (lab use only)

**XTORGO**  
 Template/Preloc:

Shipped Via Denver Service Center

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	PH	AIKCA	Metals	BTEX	Remarks/contaminant	Sample # (lab only)
<b>Fed 1-96-23-12</b>	<b>Grab</b>	<b>WW</b>	<b>NA</b>	<b>2/25/09</b>	<b>2:20</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>Temp 100°F</b>	

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other \_\_\_\_\_

Remarks: **shipped via fedex**

pH \_\_\_\_\_ Temp **100°F**

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquisher by: (Signature)	Date: <b>2/26/09</b>	Time: <b>9:30</b>	Received by: (Signature)	Samples returned via: FedEx / UPS / Other _____	Condition: <b>OK</b>
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <b>3.7°</b>	Bottle Received: <b>5:11:13</b>
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: <b>02-27-09</b>	Time: <b>09:00</b>

9632-0250-9997



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12065 Lebanon Rd.  
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Fax (615) 758-5859  
Tax I.D. 62-0814289  
Est. 1970

Jessica Dooling  
XTO Energy - Piceance Basin Field Office  
4927 County Road 5

Rifle, CO 81650

Report Summary

Thursday March 05, 2009

Report Number: L390245

Samples Received: 02/27/09

Client Project: FED 1S-96-9-11

Description: Produced Water

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
John D. Blackman, ESC Representative

**Laboratory Certification Numbers**

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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1 Samples Reported: 03/03/09 15:16 Revised: 03/05/09 08:59

Page 1 of 4



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jessica Dooling  
XTO Energy - Piceance Basin Field 0  
4927 County Road 5  
Rifle, CO 81650

March 05, 2009

Date Received : February 27, 2009  
Description : Produced Water  
Sample ID : FED 1S-96-9-11  
Collected By : Jes Dooling  
Collection Date : 02/25/09 15:15

ESC Sample # : L390245-01

Site ID : FED 1S-96-9-11

Project # : FED 1S-96-9-11

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Temperature (on-site)	100		Deg. F			
Sulfate	BDL	5.0	mg/l	300.0	02/27/09	1
Alkalinity, Bicarbonate	1700	10.	mg/l	310.2	03/02/09	1
Alkalinity, Carbonate	BDL	10.	mg/l	310.2	03/02/09	1
pH	7.1		su	4500H-B	02/28/09	1
Specific Conductance	12000		umhos/cm	120.1	03/01/09	1
Dissolved Solids	7500	10.	mg/l	2540C	03/03/09	1
Calcium, Dissolved	50.	0.50	mg/l	200.7	03/02/09	1
Magnesium, Dissolved	5.0	0.10	mg/l	200.7	03/02/09	1
Sodium, Dissolved	3000	2.5	mg/l	200.7	03/02/09	5
Benzene	0.28	0.012	mg/l	8021B	02/27/09	25
Toluene	0.30	0.12	mg/l	8021B	02/27/09	25
Ethylbenzene	0.015	0.012	mg/l	8021B	02/27/09	25
Total Xylene	0.19	0.038	mg/l	8021B	02/27/09	25
Surrogate Recovery (%) a, a, a-Trifluorotoluene (PID)	99.3		% Rec.	8021B	02/27/09	25

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 03/03/09 15:16 Revised: 03/05/09 08:59  
L390245-01 (PH) - 7.1@18.6c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L390245-01	WG409723	SAMP	pH	R655770	T8

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

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- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
03/05/09 at 08:59:57

TSR Signing Reports: 151  
R3 - Rush: Two Day

Sample: L390245-01 Account: XTORCO Received: 02/27/09 09:00 Due Date: 03/03/09 00:00 RPT Date: 03/03/09 15:16





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Tax I.D. 62-0814289

Est. 1970

Jessica Dooling  
XTO Energy - Piceance Basin Field Office  
4927 County Road 5

Rifle, CO 81650

Report Summary

Thursday March 05, 2009

Report Number: L390255

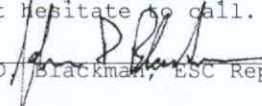
Samples Received: 02/27/09

Client Project: FED 2S-95-15-22

Description: Produced Water

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Entire Report Reviewed By:

  
John D. Blackman, ESC Representative

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NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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in laboratory standard operating procedures: 060302, 060303, and 060304.

1 Samples Reported: 03/03/09 15:16 Revised: 03/05/09 08:59

Page 1 of 4



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jessica Dooling  
XTO Energy - Piceance Basin Field O  
4927 County Road 5  
Rifle, CO 81650

March 05, 2009

Date Received : February 27, 2009  
Description : Produced Water  
Sample ID : FED 2S-95-15-22  
Collected By : Jes Dooling  
Collection Date : 02/25/09 13:00

ESC Sample # : L390255-01

Site ID : FED 2S-95-15-22

Project # : FED 2S-95-15-22

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Temperature (on-site)	100		Deg. F			
Sulfate	43.	5.0	mg/l	300.0	02/27/09	1
Alkalinity,Bicarbonate	1500	10.	mg/l	310.2	03/02/09	1
Alkalinity,Carbonate	BDL	10.	mg/l	310.2	03/02/09	1
pH	7.0		su	4500H-B	02/28/09	1
Specific Conductance	21000		umhos/cm	120.1	03/01/09	1
Dissolved Solids	13000	10.	mg/l	2540C	03/03/09	1
Calcium,Dissolved	110	0.50	mg/l	200.7	03/02/09	1
Magnesium,Dissolved	8.7	0.10	mg/l	200.7	03/02/09	1
Sodium,Dissolved	4500	2.5	mg/l	200.7	03/02/09	5
Benzene	7.5	0.050	mg/l	8021B	02/27/09	100
Toluene	13.	0.50	mg/l	8021B	02/27/09	100
Ethylbenzene	0.84	0.050	mg/l	8021B	02/27/09	100
Total Xylene	9.9	0.15	mg/l	8021B	02/27/09	100
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	97.4		% Rec.	8021B	02/27/09	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/03/09 15:16 Revised: 03/05/09 09:00  
L390255-01 (PH) - 7.0@18.7c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L390255-01	WG409723	SAMP	pH	R655770	T8

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).


Definitions

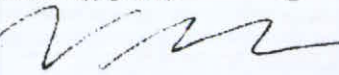
- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
03/05/09 at 09:00:00

TSR Signing Reports: 151  
R3 - Rush: Two Day

Sample: L390255-01 Account: XTORCO Received: 02/27/09 09:00 Due Date: 03/03/09 00:00 RPT Date: 03/03/09 15:16

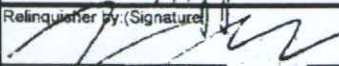

Company Name/Address  XTO Energy 4927 County Road 5 Rifle, CO 81650	Alternate Billing		Analysis/Container/Preservative				Chain of Custody Page ___ of ___	
	Report to: Jessica Dooling		PH, SPCON, TDS (1) 500 ml HDPE - No Pres	AlkCA, AlkBA, Sulfate (1) 500ml HDPE - No Pres	Metals: Ca, Mg, Na (1) 250ml HDPE - No Pres	BTEX (2) 40ml amb-hcl	E001	
	E-mail to: jessica_dooling@xtoenergy.com						Prepared by:   ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122  Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859	

Project Description: Produced water		Lab Project #	
PHONE: (970)878-6800	FAX: Client Project No. Fed 25-95-15-22		
(970)878-6845	Site/Facility ID# Fed 25-45-15-22	P.O.#	
Collected by: Jess Dooling	Rush? (Lab MUST be Notified)	Date Results Needed	No
Collected by (signature): 	<input type="checkbox"/> Same Day.....200%	Email? <input type="checkbox"/> No <input type="checkbox"/> Yes	of
Packed on ice N <input checked="" type="checkbox"/> Y <input type="checkbox"/> X	<input checked="" type="checkbox"/> Next Day.....100%	FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes	Cntrs
	<input checked="" type="checkbox"/> Two Day.....50%		

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	PH, SPCON, TDS (1) 500 ml HDPE - No Pres	AlkCA, AlkBA, Sulfate (1) 500ml HDPE - No Pres	Metals: Ca, Mg, Na (1) 250ml HDPE - No Pres	BTEX (2) 40ml amb-hcl	Remarks/contaminant	Sample # (lab only)
Fed 25-95-15-22	Grab	ww	NA	2/25/09	1:00	5	1	1	1	2	100°F	1390255-01

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other \_\_\_\_\_ pH \_\_\_\_\_ Temp 100°F

Remarks: Shipped via Fedex 9609 7430 8910 Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquisher by: (Signature) 	Date: 2/26/09	Time: 9:30	Received by: (Signature) 	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other <input type="checkbox"/>	Condition (lab use only) CocSI
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.1°C	Bottles Received: 5 + 1 tb
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) Chris Jones	Date: 2-27-09	Time: 0900
				pH Checked:	NCF:

OK



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Tax I.D. 62-0814289

Est. 1970

Jessica Dooling  
XTO Energy - Piceance Basin Field Office  
4927 County Road 5

Rifle, CO 81650

Report Summary

Thursday March 05, 2009

Report Number: L390230

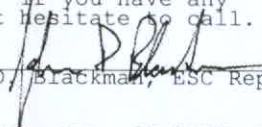
Samples Received: 02/27/09

Client Project: FED 2S-95-16-33

Description: Produced Water

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
John D. Blackman, ESC Representative

**Laboratory Certification Numbers**

AZLA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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1 Samples Reported: 03/03/09 15:16 Revised: 03/05/09 08:59

Page 1 of 4



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Jessica Dooling  
XTO Energy - Piceance Basin Field O  
4927 County Road 5  
Rifle, CO 81650

March 05, 2009

Date Received : February 27, 2009  
Description : Produced Water

ESC Sample # : L390230-01

Sample ID : FED 2S-95-16-33

Site ID : FED 2S-95-16-33

Collected By : Jes Dooling  
Collection Date : 02/25/09 13:25

Project # : FED 2S-95-16-33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Temperature (on-site)	50		Deg. F			
Sulfate	25.	25.	mg/l	300.0	02/27/09	5
Alkalinity,Bicarbonate	1500	10.	mg/l	310.2	03/02/09	1
Alkalinity,Carbonate	BDL	10.	mg/l	310.2	03/02/09	1
pH	7.0		su	4500H-B	02/28/09	1
Specific Conductance	21000		umhos/cm	120.1	03/01/09	1
Dissolved Solids	14000	10.	mg/l	2540C	03/03/09	1
Calcium,Dissolved	140	0.50	mg/l	200.7	03/02/09	1
Magnesium,Dissolved	13.	0.10	mg/l	200.7	03/02/09	1
Sodium,Dissolved	4200	2.5	mg/l	200.7	03/02/09	5
Benzene	26.	0.50	mg/l	8021B	02/27/09	1000
Toluene	54.	5.0	mg/l	8021B	02/27/09	1000
Ethylbenzene	4.4	0.50	mg/l	8021B	02/27/09	1000
Total Xylene	49.	1.5	mg/l	8021B	02/27/09	1000
Surrogate Recovery(%) a,a,a-Trifluorotoluene (PID)	98.8		% Rec.	8021B	02/27/09	1000

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 03/03/09 15:16 Revised: 03/05/09 08:59  
L390230-01 (PH) - 7.0@18.7c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L390230-01	WG409723	SAMP	pH	R655770	T8

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

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- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
03/05/09 at 08:59:50

TSR Signing Reports: 151  
R3 - Rush: Two Day

Sample: L390230-01 Account: XTORCO Received: 02/27/09 09:00 Due Date: 03/03/09 00:00 RPT Date: 03/03/09 15:16

Company Name/Address XTO Energy 4927 County Road 5 Rifle, CO 81650	Alternate Billing		Analysis/Container/Preservative				Chain of Custody Page ___ of ___	
	Report to: Jessica Dooling		PH, SPCON, TDS (1) 500 ml HDPE - No Pres	AIKCA, AIKBA, Sulfate (1) 500ml HDPE - No Pres	Metals: Ca, Mg, Na (1) 250ml HDPE - No Pres	BTEX (2) 40ml amb-hcl		
	E-mail to: jessica_dooling@xtoenergy.com							

Prepare: **A004**

**ENVIRONMENTAL Science corp**  
 12065 Lebanon Road  
 Mt. Juliet TN 37122

Phone (615)758-5858  
 Phone (800) 767-5859  
 FAX (615)758-5859

Project Description: **Produced Water**

PHONE: (970)878-6800 FAX: Client Project No. **Fed 25-95-16-33** Lab Project #

(970)878-6845

Collected by: **Jes Dooling** Site/Facility ID# **Fed 25-95-16-33** P.O.#

Collected by (signature): **Jes Dooling**

Packed on Ice N Y X

**Rush?** (Lab MUST be Notified)  
 \_\_\_ Same Day.....200%  
 \_\_\_ Next Day.....100%  
X Two Day.....50%

Date Results Needed  
 Email? \_\_\_ No \_\_\_ Yes  
 FAX? \_\_\_ No \_\_\_ Yes

CoCode (lab use only)

**XTORCO**

Template/Prelogin

Shipped Via Denver Service Center

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	PH, SPCON, TDS (1) 500 ml HDPE - No Pres	AIKCA, AIKBA, Sulfate (1) 500ml HDPE - No Pres	Metals: Ca, Mg, Na (1) 250ml HDPE - No Pres	BTEX (2) 40ml amb-hcl	Remarks/contaminant	Sample # (lab only)
<b>Fed 25-95-16-33</b>	<b>Grab</b>	<b>WW</b>	<b>VT</b>	<b>8/25/09</b>	<b>1:25</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>SOF</b>	<b>139-20-01</b>

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other \_\_\_\_\_

Remarks: **Shipped via Fedex**

pH \_\_\_\_\_ Temp **50°F**

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquisher by (Signature):	Date: <b>8/26/09</b>	Time: <b>9:30</b>	Received by (Signature):	Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other <input type="checkbox"/>	Condition: <b>Good</b>
Relinquisher by (Signature):	Date:	Time:	Received by (Signature):	Temp: <b>3.1°C</b>	Bottles Returned: <b>5/11/13</b>
Relinquisher by (Signature):	Date:	Time:	Received for lab by (Signature):	Date: <b>02-27-09</b>	Time: <b>09:00</b>

**9669-7430-808909**

# ENVIRONMENTAL SCIENCE CORP.

## SAMPLE NON-CONFORMANCE FORM

Sample No. : L340230

Date: 2/27/09

Evaluated by: Matt S.

Client: XTORLO

### Non-Conformance (check applicable items)

- |                          |  |                                     |   |
|--------------------------|--|-------------------------------------|---|
| <input type="checkbox"/> | Chain of Custody is missing                          | <input checked="" type="checkbox"/> | Login Clarification Needed  |
| <input type="checkbox"/> | Improper container type                              | <input type="checkbox"/>            | Improper preservation   |
| <input type="checkbox"/> | Chain of custody is incomplete                       | <input type="checkbox"/>            | Container lid not in tact   |
| <input type="checkbox"/> | Parameter(s) past holding time                       | <input type="checkbox"/>            | Improper temperature  |
| <input type="checkbox"/> | Broken container(s) <b>see below</b>                 | <input type="checkbox"/>            | Broken container: sufficient sample volume remains for analysis requested |
| <input type="checkbox"/> | Insufficient packing material around container       |                                     |   |
| <input type="checkbox"/> | Insufficient packing material inside cooler          |                                     |   |
| <input type="checkbox"/> | Improper handling by carrier (FedEx / UPS / Courier) |                                     |   |
| <input type="checkbox"/> | Sample was frozen                                    |                                     |   |

Comments: Diss client want total or dissolved metals.

Login Instructions:

TSR Initials: MS

Client informed by call / email / fax / voice mail date: \_\_\_\_\_ time: \_\_\_\_\_

Client contact: Dissolved Metals



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Tax I.D. 62-0814289

Est. 1970

Jessica Dooling  
XTO Energy - Piceance Basin Field Office  
4927 County Road 5

Rifle, CO 81650

Report Summary

Tuesday March 03, 2009

Report Number: L390240

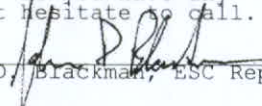
Samples Received: 02/27/09

Client Project: FED 2S-95-15-42

Description: Produced Water

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
John D. Blackman, ESC Representative

**Laboratory Certification Numbers**

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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1 Samples Reported: 03/03/09 15:16 Printed: 03/03/09 15:16

Page 1 of 4



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Est. 1970

REPORT OF ANALYSIS

Jessica Dooling  
XTO Energy - Piceance Basin Field O  
4927 County Road 5  
Rifle, CO 81650

March 03, 2009

Date Received : February 27, 2009  
Description : Produced Water

ESC Sample # : L390240-01

Sample ID : FED 2S-95-15-42

Site ID : FED 2S-95-15-42

Collected By : Jes Dooling  
Collection Date : 02/25/09 13:10

Project # : FED 2S-95-15-42

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Sulfate	BDL	5.0	mg/l	300.0	02/27/09	1
Alkalinity, Bicarbonate	1200	10.	mg/l	310.2	03/02/09	1
Alkalinity, Carbonate	BDL	10.	mg/l	310.2	03/02/09	1
pH	6.6		su	4500H-B	02/28/09	1
Specific Conductance	22000		umhos/cm	120.1	03/01/09	1
Dissolved Solids	14000	10.	mg/l	2540C	03/03/09	1
Calcium, Dissolved	120	0.50	mg/l	200.7	03/02/09	1
Magnesium, Dissolved	12.	0.10	mg/l	200.7	03/02/09	1
Sodium, Dissolved	5000	2.5	mg/l	200.7	03/02/09	5
Benzene	16.	0.12	mg/l	8021B	02/27/09	250
Toluene	20.	1.2	mg/l	8021B	02/27/09	250
Ethylbenzene	0.42	0.12	mg/l	8021B	02/27/09	250
Total Xylene	5.8	0.38	mg/l	8021B	02/27/09	250
Surrogate Recovery(%) a, a, a-Trifluorotoluene (PID)	98.0		% Rec.	8021B	02/27/09	250

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 03/03/09 15:16 Printed: 03/03/09 15:16  
L390240-01 (PH) - 6.6@18.5c

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L390240-01	WG409723	SAMP	pH	R655770	T8

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

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Definitions

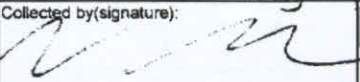
- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
03/03/09 at 15:16:41

TSR Signing Reports: 151  
R3 - Rush: Two Day

Sample: L390240-01 Account: XTORCO Received: 02/27/09 09:00 Due Date: 03/03/09 00:00 RPT Date: 03/03/09 15:16

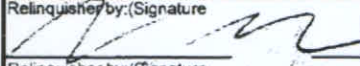

Company Name/Address  XTO Energy 4927 County Road 5 Rifle, CO 81650	Alternate Billing	Analysis/Container/Preservative				Chain of Custody Page ___ of ___
	Report to: Jessica Dooling	PH, SPCON, TDS (1) 500 ml HDPE - No Pres AlkCA, AlkBA, Sulfate (1) 500ml HDPE - No Pres Metals: Ca, Mg, Na (1) 250ml HDPE - No Pres BTEX (2) 40ml amb-hcl				Prepared by: <b>B141</b>   ENVIRONMENTAL Science corp 12065 Lebanon Road Mt. Juliet TN 37122  Phone (615)758-5858 Phone (800) 767-5859 FAX (615)758-5859
	E-mail to: jessica_dooling@xtoenergy.com					

Project Description: <b>Produced Water</b>		Client Project No.	Lab Project #
PHONE: (970)878-6800 (970)878-6845	FAX:	<b>Fed 25-95-15-92</b>	
Collected by: <b>Jes Dooling</b>	Site/Facility ID#	<b>Fed 25-95-15-42</b>	P.O.#
Collected by (signature): 	<input checked="" type="checkbox"/> Rush? (Lab MUST be Notified)	Date Results Needed	No
Packed on Ice N <u>Y</u> <b>X</b>	<input type="checkbox"/> Same Day.....200% <input type="checkbox"/> Next Day.....100% <input checked="" type="checkbox"/> Two Day.....50%	Email? <input type="checkbox"/> No <input type="checkbox"/> Yes	of
		FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes	Cntrs

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	PH	SPCON	TDS	AlkCA	AlkBA	Sulfate	Metals	BTEX	Remarks/contaminant	Sample # (lab only)
<b>Fed 25-95-15-42</b>	<b>Grab</b>	<b>WW</b>	<b>NF</b>	<b>2/25/09</b>	<b>1:10</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>				<b>90°F</b>	<b>CS90240-01</b>

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other \_\_\_\_\_ pH \_\_\_\_\_ Temp **90°F**

Remarks: **Shipped via Fedex** 913262476844 Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquisher by: (Signature) 	Date: <b>2/26/09</b>	Time: <b>9:30</b>	Received by: (Signature) 	Samples returned via: FedEx/ UPS/ Other _____	Condition (lab use only) <b>OK</b>
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <b>4.6°C</b>	Bottles Received: <b>5 + 1 H<sub>2</sub></b>
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) <b>Kim Iselle</b>	Date: <b>2/27/09</b>	Time: <b>0900</b>

pH Checked: \_\_\_\_\_ NCF: \_\_\_\_\_

State of Colorado  
**Oil and Gas Conservation Commission**



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax (303) 894-2109

FOR OGCC USE ONLY

**DRILL SITE/ACCESS ROAD RECLAMATION FORM**

This form shall be submitted in duplicate with the application for permit-to-drill (OGCC Form 2) unless a Federal 13-point surface plan is included. Also required are a minimum of two photographs (site and access road). Soil and plant community information is from United States Natural Resources Conservation Services (USNRCS).

1. OGCC Operator Number: <u>100264</u>		4. Contact Name and Telephone: KELLY SMALL		Complete the Attachment Checklist	
2. Name of Operator: <u>XTO ENERGY INC.</u>		No: (505) 333-3145			
3. Address: <u>382 ROAD 3100</u>		Fax: (505) 213-0546		Oper OGCC	
City: <u>AZTEC</u> State: <u>NM</u> Zip: <u>87410</u>				Drillsite and access photographs <input checked="" type="checkbox"/>	
5. Well Name and No.: <u>FEDERAL 2S-95-15-22</u>		6. County: <u>RIO BLANCO</u>		COE Section 404 documentation <input type="checkbox"/>	
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>SENW 15 - 2S - 95W 6TH P.M.</u>					

**Pre-Drilling Information**  
**Current Land Use**

8. Crop Land:  Irrigated  Dry Land  Improved Pasture  Hay Meadow  CRP

9. Non-Crop Land:  Rangeland  Timber  Recreational  Other (describe): \_\_\_\_\_

10. Subdivided:  Industrial  Commercial  Residential

Attach color photographs of drill site and access road; identify each photo by date, well name and location.

**Soils**

11. Soil map units from USNRCS survey: Sheet No: WSS Soil Complex/Series No: 43

Soils Series Name: Irigul Horizon thickness (in inches): A: 0-5" ; B: 5-12" ; C: 12-16"

Soils Series Name: Parachute Horizon thickness (in inches): A: 0-4" ; B: 4-24" ; C: 24-38"

**Plant Community**

Complete this section only if operations are to be conducted upon non-crop land.

12. Plant species from:  USNRCS or  Field Observation Date of observation: \_\_\_\_\_

List individual species: Beardless Wheatgrass, Western Wheatgrass, Serviceberry, Big Sagebrush, Low Rabbitbrush

13. Check one predominant plant community for the drill site:

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye, Thistle)
- Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome).
- Shrub and Brush Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- Plains Deciduous Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- Mountain Conifer Riparian (Spruce, Fir, Ponderosa Pine)
- Evergreen Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon)
- Aquatic (Bullrush, Sedges, Cattail, Arrowhead)
- Tundra (Alpine, Willow, Currant, Raspberry)
- Other (describe): \_\_\_\_\_

14. Was an Army Corps of Engineers Section 404 Permit filed?  Yes  No If yes, attach appropriate documentation.

Comments:

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I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; that I am familiar with the conditions which presently exist, that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Kelly K. Small

Signed: *Kelly K. Small* Title: Regulatory Compliance Date: 03/10/2009