

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



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 Pit Permit

Complete the Attachment Checklist

	Oper	OGCC
Detailed Site Plan	X	
Topo Map with Pit Location	X	
Water Analysis (Form 25)	X	
Source Wells (Form 26)	X	
Pit Design/Plan & Cross Sect.	X	
Design Calculations	X	
Sensitive Area Determination	X	
Mud Program		
Form 2A	X	

OGCC Operator Number: 100264	Contact Name and Telephone: Kelly Small
Name of Operator: XTO Energy Inc.	No: 505-333-3145
Address: 382 Road 3100	Fax: 505-213-0546
City: Aztec State: NM Zip: 87410	Email: kelly_small@xtoenergy.com
API Number (of associated well): 05-103-10957	OGCC Facility ID (of other associated facility): 288152
Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): Federal 2S-95-16-33DP (Pit2), NWSE Sec. 16, T2S, R95W, 6th PM	
Latitude: 39.872116 Longitude: 108.056417 County: Rio Blanco	
Pit Use: <input type="checkbox"/> Production <input type="checkbox"/> Drilling (Attach mud program) <input checked="" type="checkbox"/> Special Purpose (Describe Use): Multi-well pit	
Pit Type: <input checked="" type="checkbox"/> Lined <input type="checkbox"/> Unlined Surface Discharge Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Offsite disposal of pit contents: <input type="checkbox"/> Injection <input checked="" type="checkbox"/> Commercial Pit/Facility Name: LaPoint Recycle & Storage Pit Facility No.:	

Attach Form 26 to identify Source Wells and Form 25 to provide Water Analysis results.

Existing Site Conditions

Is the location in a "Sensitive Area?" Yes No **Attach data used for determination.**

Distance (in feet) to nearest surface water: 2481.6' **ground water:** 286' **water wells:** 10 wells within one mil

LAND USE (or attach copy of form 2A if previously submitted for associated well) Select one which best describes land use:

Crop Land: Irrigated Dry Land Improved Pasture Hay Meadow CRP

Non-Crop Land: Rangeland Timber Recreational Other (describe):

Subdivided: Industrial Commercial Residential

SOILS (or attach copy of Form 2A if previously submitted for associated well)

Soil map units from USNRCS Survey: Sheet No: WSS Soil Complex/Series No: 42

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

Soils Series Name: **Horizon thickness (in inches):** A: ; B: ; C:

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 160 Width: 100 Depth: 12 **16,000sq/ Ft.**

Calculated pit capacity (bbls): 34,194 **Daily inflow rate (bbls/day):** 0-300 bbls/day

Daily disposal rates (attach calculations): Evaporation: 26 bbls/day **Percolation:** n/a bbls/day

Type of liner material: Polyethylene **Thickness:** 36 mil

Attach description of proposed design and construction (include sketches and calculations).

Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): Separator

Is pit fenced? Yes No **Is pit netted?** Yes No

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: 03/11/09

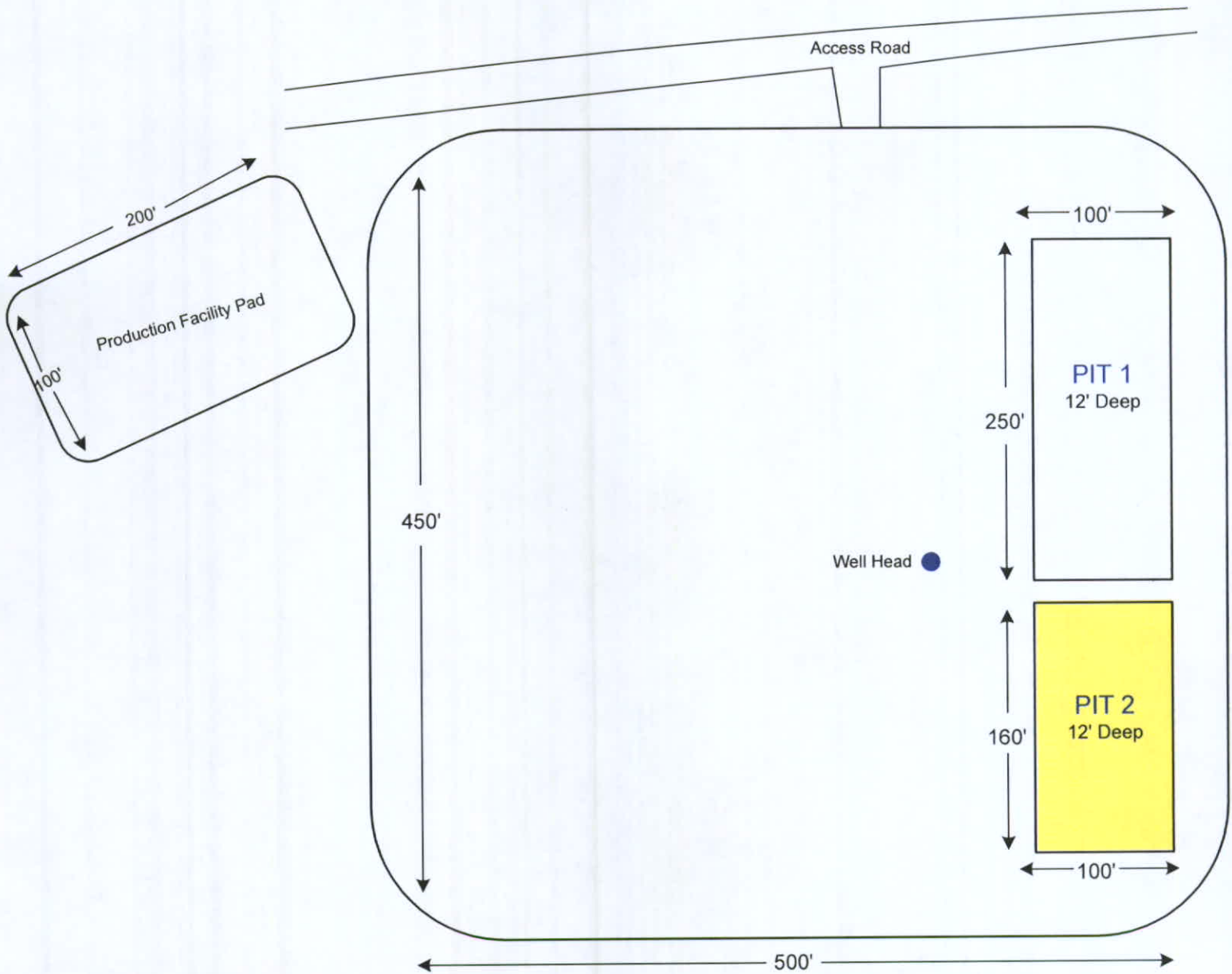
OGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

Facility Number: 414389

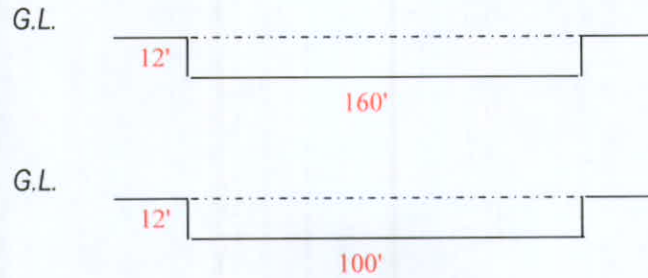
JAK

FEDERAL #2S-95-16-33DP
NWSE SEC. 16, T2S, R95W
NAD83
LAT: 39.872116
LONG: 108.056417



PIT 2
Pit Design Plan & Calculations
Federal #2S-95-16-33DP
05-103-10957

Cross-Section



Calculations

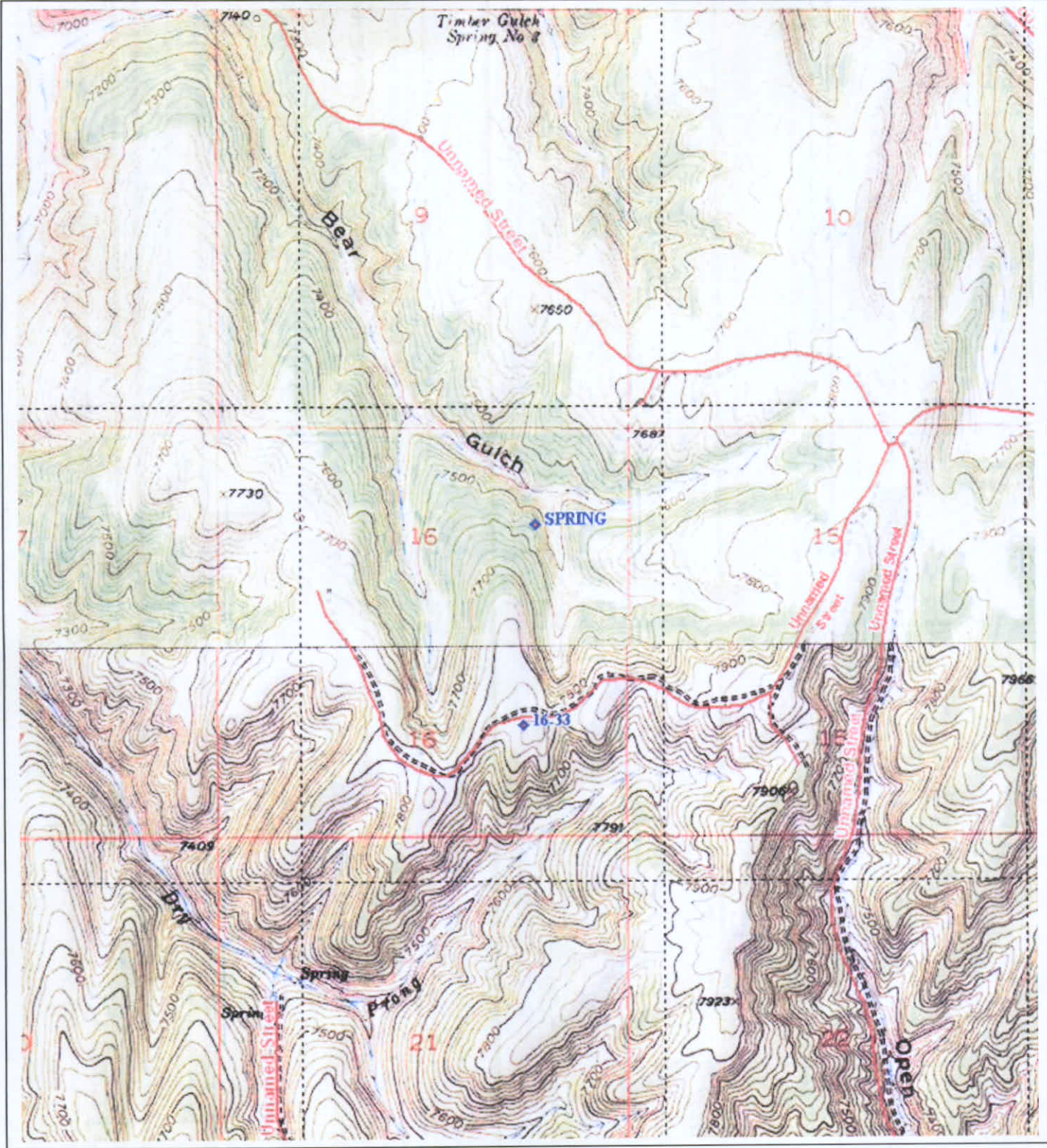
<u>Volume =</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>DEPTH</u>	<u>Bbls</u>
	160	100	12	34194

<u>Evaporation</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>ft^2</u>
(Based on 40"/yr)	160	100	16000
			<u>Bbls/Day</u>
			26.0

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^2 Bbls/Day



XTO Energy

Federal 2S-95-16-33DP
 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-95-16-33DP

OUTSIDE SENSITIVE AREAS

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

Elevations: 7235'
Pit Bottom 7225'
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

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?

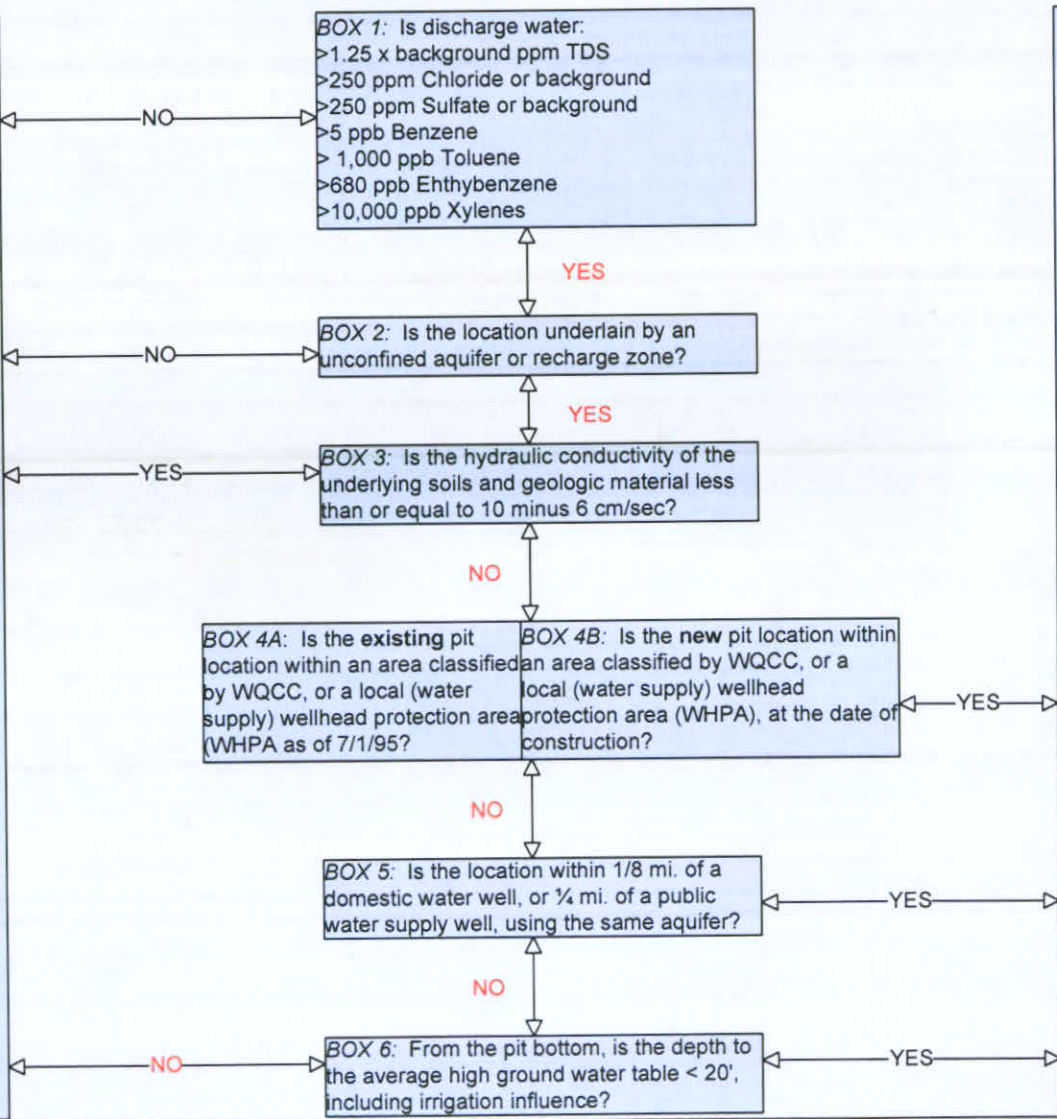
BOX 5: Is the location within 1/8 mi. of a domestic water well, or 1/4 mi. of a public water supply well, using the same aquifer?

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>	

Chemical Analysis of fluid	Oper OGCC	
	X	

OGCC Disposal Facility Number: N/A 414389

Operator's Disposal Facility Name: 2S-95-16-33DP Pit 2 Operator's Disposal Facility Number: N/A

Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE SEC. 16, 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: 03/11/2009

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

CONDITIONS OF APPROVAL, IF ANY:

JAK



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01630581

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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: 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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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 03, 2009

Date Received : February 27, 2009
Description : Produced Water

ESC Sample # : L390236-01

Sample ID : FED 1-96-23-12

Site ID : FED 1-96-23-12

Collected By : Jes Dooling
Collection Date : 02/25/09 14:20

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



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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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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 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

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).




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- 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 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

Company Name/Address XTO Energy 4927 County Road 5 Rifle, CO 81650				Alternate Billing Report to: Jessica Dooling E-mail to: jessica_dooling@xtoenergy.com				Analysis/Container/Preservative PH, SPCON, TDS (1) 500 ml HDPE - No Pres AIKBA, AIKBA, Sulfate (1) 500ml HDPE - No Pres Metals: Ca, Mg, Na (1) 250ml HDPE - No Pres BTEX (2) 40ml amb-hcl				Chain of Custody Page ___ of ___ E136 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: <u>Produced Water</u>				Client Project No. <u>Fed 15-96-9-11</u>				Lab Project #				CoCode (lab use only)	
PHONE: (970)878-6800 (970)878-6845		FAX: <u>Fed 15-96-9-11</u>		Site/Facility ID# <u>Fed 15-96-9-11</u>		P.O.#		Date Results Needed				Shipped Via: Denver Service Center	
Collected by: <u>Jes Dooling</u>		Rush? <input checked="" type="checkbox"/> (Lab MUST be Notified)		Date Results Needed		No		Email? <input type="checkbox"/> No <input type="checkbox"/> Yes				XTORCO	
Collected by (signature): <u>Jes Dooling</u>		Same Day.....200%		Next Day.....100%		of		FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes				Template/Prelogin	
Packed on ice <u>N</u> <input checked="" type="checkbox"/>		Two Day.....50%		Date		Contra		Remarks/contaminant				Sample # (lab only)	
Sample ID	Comp/Grab	Matrix	Depth	Date	Time								
<u>Fed 15-96-9-11</u>	<u>Grab</u>	<u>WW</u>	<u>NA</u>	<u>2/25/09</u>	<u>3:15</u>	<u>5</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>100°F</u>	<u>L390245-01</u>	
Matrix SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other _____												pH _____ Temp <u>100°F</u>	
Remarks: <u>Shipped via Fedex 9609 7442 4838</u>												Flow _____ Other _____	
Relinquisher by: (Signature) <u>Jes Dooling</u>	Date: <u>2/26/09</u>	Time: <u>9:30</u>	Received by: (Signature) 				Samples returned via: FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Other _____				Condition (lab use only)		
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)				Temp: <u>2.7°C</u>	Bottles Received: <u>5 + 1 + b</u>				<u>COCSE</u> 	
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>C. Ponce</u>				Date: <u>2-27-09</u>	Time: <u>0900</u>				pH Checked: _____ NCF: _____	



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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

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 Revised: 03/05/09 08:59
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 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:

The reported analytical results relate only to the sample submitted.
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Reported: 03/03/09 15:16 Revised: 03/05/09 09:00
L390255-01 (PH) - 7.0818.7c

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



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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

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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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-95-16-33
Collected By : Jes Dooling
Collection Date : 02/25/09 13:25

ESC Sample # : L390230-01
Site ID : FED 2S-95-16-33
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:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

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

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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

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : L340230

Date: 2/27/09

Evaluated by: Matt S.

Client: XTORCO

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) see below | <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: Dis 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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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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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 2S-95-15-42
Collected By : Jes Dooling
Collection Date : 02/25/09 13:10

ESC Sample # : L390240-01

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

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
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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
 Report to: Jessica Dooling
 E-mail to: jessica_dooling@xtoenergy.com

Analysis/Container/Preservative

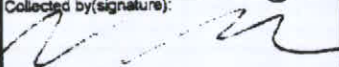
PH, SPCON, TDS (1) 500 ml HDPE - No Pres	AIKCA, AIKBA, Sulfate (1) 500ml HDPE - No Pres	Metals: Ca, Mg, Na (1) 250ml HDPE - No Pres	BTEX (2) 40ml amb-hcl
--	--	---	-----------------------

Chain of Custody
 Page ___ of ___
 B141
 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**

PHONE: (970)878-6800 FAX: (970)878-6845
 Client Project No. **Fed 25-95-15-42** Lab Project #

Collected by: **Jes Dooling** Site/Facility ID# **Fed 25-95-15-42** P.O.#

Collected by (signature): 
 Rush? (Lab MUST be Notified)
 Same Day.....200%
 Next Day.....100%
 Two Day.....50%
 Packed on ice N Y X

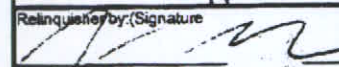

Date Results Needed
 Email? No Yes
 FAX? No Yes

CoCode (lab use only)
XTORCO
 Template/Prelogin
 Shipped Via: Denver Service Center

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	Cntrs	PH	SPCON	TDS	AIKCA	AIKBA	Sulfate	Metals	BTEX
Fed 25-95-15-42	Grab	WW	NF	2/25/09	1:10	5	1	1	1	1	2			

Remarks/contaminant	Sample # (lab only)
90°F	LS90240-01

Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Drinking Water OT-Other _____ pH _____ Temp **90°F**
 Remarks: **Shipped via Fedex** Flow _____ Other _____

Relinquisher by: (Signature) 	Date: 2/26/09	Time: 9:30	Received by: (Signature) 	Samples returned via: FedEx/UPS/Other _____	Condition (lab use only) OK
Relinquisher by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.6°C	Bottles Received: 5 + 2 H₂
Relinquisher by: (Signature)	Date:	Time:	Received for lab by: (Signature) Kim Isobelle	Date: 2/27/09	Time: 0900

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: <u>KELLY SMALL</u>		Complete the Attachment Checklist	
2. Name of Operator: <u>XTO ENERGY INC.</u>		No: <u>(505) 333-3145</u>			
3. Address: <u>382 ROAD 3100</u>		Fax: <u>(505) 213-0546</u>		Drill site and access photographs	OGCC
City: <u>AZTEC</u> State: <u>NM</u> Zip: <u>87410</u>				COE Section 404 documentation	
5. Well Name and No.: <u>FEDERAL 2S-95-16-33DP</u>		6. County: <u>RIO BLANCO</u>			
7. Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWSE 16 - 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: 42

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

Soils Series Name: _____ Horizon thickness (in inches): A: _____ ; B: _____ ; C: _____

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:

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: 03/11/2009