

FORM
4
Rev. 12/05

Page 1

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 601 Denver, Colorado 80203 Phone (303) 894-2100 Fax (303) 894-2105



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form). Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b).

RECEIVED
3/14/2012

1 OGCC Operator Number	100264	4 Contact Name	Dee Johnson
2 Name of Operator	XTO ENERGY INC	Phone	(505) 333-3100
3 Address	9127 South Jamaica Drive	Fax	505-333-3280
City	Englewood	State	CO
Zip	80112		
5 API Number	05 103-11262	OGCC Facility ID Number	100264
6 Well/Facility Name	Freedom Unit	Well/Facility Number	297-28C
8 Location (Qtr/Sec Twp, Rng, Meridian)	SENE, Sec 28, T2S, R97W, 6th PM		
9 County	Rio Blanco	10 Field Name	Piceance Creek
11 Federal Indian or State Lease Number			

Survey Plat	
Directional Survey	
Surface Eqmt Diagram	
Technical Info Page	✓
Other	✓

Complete the Attachment
Checklist

OP OGCC

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines	<input type="checkbox"/>
Bottomhole location Qtr/Sec Twp, Rng, Mer	<input type="checkbox"/>
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes No
	Distance to nearest well same formation
	Surface owner consultation date
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code
Spacing order number	Unit acreage
	Unit configuration
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date	
Plugging Bond	<input type="checkbox"/> Blaker <input type="checkbox"/> Individual
<input type="checkbox"/> CHANGE WELL NAME	
From	NUMBER
To	
Effective Date	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is site ready for inspection?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for inspection	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
*submit cbl and cement job summaries	
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection	

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Report of Work Done
Approximate Start Date	Date Work Completed
	03/05/2012
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other NFA Request
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input type="checkbox"/> Status Update/Change of Remediation Plans
	for Spills and Releases

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

Signed Dolena C Johnson Date 03/14/2012 Email dee_johnson@xtoenergy.com
Print Name Dolena Johnson Title Regulatory Compliance Technician

COGCC Approved

CONDITIONS OF APPROVAL IF ANY

FOR

Date 03/22/2012

Chris Canfield
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 100264 API Number: 05-103-11262
2. Name of Operator: XTO ENERGY INC. OGCC Facility ID # 100264
3. Well/Facility Name: Freedom Unit Well/Facility Number: 297-28C
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENE, Sec.28, T2S, R97W, 6th PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

XTO Energy Inc. completed closing the Freshwater and Reserve Pits associated with this well, REM #6846 / Doc #2222939, on 03/05/2012. XTO is requesting NFA for pit closure of this location.

Please see attached cover letter, Form 27, Table 1 and 2, associated analytical and the pit closure pictures.



March 14 2012

Mr. Chris Canfield
Colorado Oil and Gas Conservation Commission
Environmental Protection Specialist
Northwest Region
Rifle, CO 81650

Re: Notification of Completion of Pit Closure
FRU 297-28C, API # 05-103-11262
Remediation Number 6846/Document # 2222939

Dear Mr. Canfield,

XTO Energy Inc. (XTO) completed closing the Freshwater and Reserve Pits associated with the FRU 297-28C well, Rem #6846, Doc # 2222939, on March 5, 2012. XTO is herein submitting the required Form 27, which includes the date closure of the aforementioned pits were completed and the completed closure photo.

Freshwater Pit sub-liner composite samples were collected after removal of the stored Reserve Pit mix/blend material (including associated pit liner) and analyzed for full Table 910-1 parameters. Results are below Table 910-1 concentrations with the exception of TPH (548 mg/kg), SAR (54.9), pH (11.83) and Arsenic (2.4 mg/kg).

Based on elevated Freshwater Pit sub-liner TPH levels (548 mg/kg) additional composite samples were collected at 1-2 feet and 2-3 feet and analyzed for TPH. Results are below Table 910-1 concentrations. The base of the Freshwater Pit was scarified to an approximate depth of one foot, using a dozer mounted ripper, and then mix/blended with an approximate two-foot thickness on non-impacted spoils. A composite sample was subsequently collected of this material after mix/blending with TPH results (29.4 mg/kg) less than the Table 910-1 concentration level of 500 mg/kg. (See Table 1 and Table 2 and associated analytical attached)

The Freshwater Pit was closed and backfilled with native on-site material.

If you should have any questions or comments please feel free to contact me at your earliest convenience (970)675-4122.

Respectfully,

A handwritten signature in blue ink, appearing to read 'Jessica Dooling', with a long, sweeping horizontal line extending to the right.

Jessica Dooling
Environmental Coordinator

Jessica_dooling@xtoenergy.com

Enclosures (3)

Cc: Joe Bob Duncan
Sam Montoya
Kelly Kardos
Dee Johnson

State of Colorado
Oil and Gas Conservation Commission



FOR OGCC USE ONLY

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

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): Pit Closure

OGCC Operator Number: 100264

Name of Operator: XTO Energy Inc.

Address: 9127 South Jamacia Drive

City: Englewood

State: CO Zip: 80112

Contact Name and Telephone:

Jessica Dooling

No: 970-675-4122

Fax: 970-675-4150

API Number: 05-103-11262

County: Rio Blanco

Facility Name: ~~Piceance Creek Unit~~ Freedom Unit

Facility Number: 295843 Drilling Pit

Well Name: ~~Piceance Creek Unit~~ Freedom Unit

Well Number: FRU 297-28C

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SENE, Sec 28, T2S, R97W, 6th PM

Latitude: 39.848583

Longitude: -108.278232

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Drill Cuttings and Fluids

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): non-cropland rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Redcreek-Rentsac complex, 5 to 30% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): no water wells within 1/4 mile, nearest surface water is greater than 1/4 mile away

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):



Soils



Vegetation



Groundwater



Surface Water

Extent of Impact:

Pit content: TPH, arsenic, barium

How Determined:

laboratory analysis

REMEDIALATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

See Attachment I for details regarding initial action taken.

Describe how source is to be removed:

Freshwater pit synthetic liner and pit contents have been removed and transported to an off-site permitted disposal/recycling facility. Reserve pit synthetic liner was removed to an off-site permitted disposal/recycling facility. Reserve pit contents were mix/blended to below Table 910-1 concentrations and will be used onsite for fill.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Any remaining impacted soils will either be treated on-site or removed to a permitted disposal/recycling facility.

FORM
27
Rev 6/99State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
(303)894-2100 Fax: (303)894-2109

Page 2

REMEDIAL WORKPLAN (Cont.)

Tracking Number.

Name of Operator

OGCC Operator No

Received Date: Reserve & Freshwater PitsWell Name & No: Location ID # 336008Facility Name & No: Pit Facility ID # 295843

OGCC Employee

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Available information indicates that the uppermost groundwater bearing zone is greater than 200 feet below ground surface. Soil samples were/will be collected for laboratory analysis of subliner material to confirm no groundwater impact potential exists.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Please see Attachment II

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☒ Y ☐ N If yes, describe

Based upon subliner testing beneath the Freshwater pit additional assessment and remediation may be necessary (see Table 1).

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

The Freshwater pit synthetic liner and identified impacted materials were removed from the site and transported to an off-site facility for recycling/disposal. The Reserve pit synthetic liner was removed from the site and transported to an off-site facility for recycling/disposal. Reserve pit contents were mix/blended with onsite spoils to below Table 910-1 parameters and will be used onsite for backfill. The Freshwater pit synthetic liner installed to store Reserve pit mix/blend material will be removed from the site and transported to an off-site facility for recycling/disposal. Pending additional assessment findings, remaining impacted soils will either be treated on-site or transported to an approved off-site facility for recycling/disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 09/20/11

Date Site Investigation Completed

Date Remediation Plan Submitted

Remediation Start Date: pending approvalAnticipated Completion Date: 1-1-12Actual Completion Date: 3/5/2012

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

Print Name: Jessica DoolingSigned: Jess DoolingTitle: Environmental CoordinatorDate: 2/10/2012

OGCC Approved: Chris Canfield Title: FOR Chris Canfield Date: 02/17/2012

Please submit confirmation results for the freshwater pit along with the Notice of Completion.

Table 1
Location: FRU 297-28C
Lab Summary

Analytical Parameter	Freshwater Pit										Reserve pit				Background 1/26/11								2nd Backgrounds 11/15/11								COGCC	Background
	FW Pit Contents 9/20/11 ⁶	FW Pit Subliner 28/12	FW Pit Subliner - '1' to -'2' 28/12	FW Pit Subliner - '2' to -'3' 28/12	FW Pit Subliner mixblend (2/24/12)	FW Pit Contents D32208	Reserve Pit Contents D27857	Reserve Pit Contents 10/14/11 ⁵	Reserve Pit mixblend 2/2/12	RP Subliner 1/4/12 - 2/2/12	B1A (-1.5)	B1B (-12)	B2A (-2)	B2B (-9.5)	B3A (-1.5)	B3B (-9.5)	TP-1 (-10)	TP-1 (-15)	TP-2 (-13)	TP-3 (-3)	TP-3 (-8)	TP-3 (-10)	Table 910-1 Allowable Levels	Maximum based on Background								
Accutest Job #	D27858	D31747	D31745	D31746	D32208	D27857	D28640	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796	D30796							
Sample Type (Composite/Discrete)	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C							
TPH (GRO) (mg/kg)	83.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
TPH (DRO) (mg/kg)	88.500	548	18.4	13.2	29.4	179	110	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9								
TPH (GRO + DRO) (mg/kg)	88.583	548	18.4	13.2	29.4	179	206	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9								
Benzene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Toluene (mg/kg)	0.205	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Ethylbenzene (mg/kg)	0.193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Xylenes (total) (mg/kg)	4.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Acenaphthene (mg/kg)	0.532	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Anthracene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Benzo(A)anthracene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Benzo(B)fluoranthene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Benzo(K)fluoranthene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Benzo(A)pyrene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Chrysene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Dibenzo(A,H)anthracene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Fluoranthene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Fluorene (mg/kg)	1.720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Indol(1,2,3-C)Dipylene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Naphthalene (mg/kg)	0.414	0.905	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Pyrene (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Electrical Conductivity (mmhos/cm)	0.362	3.570	ND	ND	ND	1,800	1,650	ND	ND	ND	0.481	0.478	0.719	2.060	0.170	3.420	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Sodium Adsorption Ratio (SAR)	4.55	54.9	54.9	54.9	54.9	38.2	29.1	ND	ND	ND	7.25	5.62	2.39	10.7	0.512	13.9	ND	ND	ND	ND	ND	ND	ND	ND	ND							
pH	8.57	11.83	11.83	11.83	11.83	11.22	8.88	ND	ND	ND	10.17	9.07	9.53	9.19	9.64	9.23	9.48	ND	ND	ND	ND	ND	ND	ND	ND							
Arsenic (mg/kg)	6.8	2.4	2.4	2.4	2.4	8.1	8.7	ND	ND	ND	3.3	1.9	2.4	6.1	2.7	2.5	3.3	1.3	2.0	3.2	1.5	2.7	2.4	6.7	6.7							
Barium (mg/kg)	5,140	1,560	1,560	1,560	1,560	19,600	20,500	ND	ND	ND	691	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Cadmium (mg/kg)	<1.6	<1.1	<1.1	<1.1	<1.1	<4.2	<3.9	ND	ND	ND	<1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Chromium (III) (mg/kg)	41.9	29.7	29.7	29.7	29.7	28.3	15.7	ND	ND	ND	37.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Chromium (VI) (mg/kg)	<0.59	0.64	0.64	0.64	0.64	<1.6	<1.5	ND	ND	ND	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Copper (mg/kg)	37.0	6.1	6.1	6.1	6.1	30.8	20.9	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Lead (inorganic) (mg/kg)	25.5	9.6	9.6	9.6	9.6	<21	<19	ND	ND	ND	9.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Mercury (mg/kg)	0.60	<0.11	<0.11	<0.11	<0.11	<0.37	<0.38	ND	ND	ND	<0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Nickel (mg/kg)	18.8	10	10	10	10	17.3	15.8	ND	ND	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Selenium (mg/kg)	<39	<5.4	<5.4	<5.4	<5.4	<110	<96	ND	ND	ND	<5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Silver (mg/kg)	<4.7	<3.2	<3.2	<3.2	<3.2	<13	<12	ND	ND	ND	<3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Zinc (mg/kg)	130	38.2	38.2	38.2	38.2	42.7	46.6	ND	ND	ND	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
% Solids	65.5	88.9	88.3	88.5	87.1	24.8	27.3	87.6	80.7	85.4	85.2	89.1	89.4	87.0	89.0	87.4	87.3	89.1	92.4	94.8	94.8	94.8	94.8	94.8	94.8							
Notes:																																

Notes:

- 1) ND = not detectable to the laboratory detection limit.
- 2) Results highlighted in yellow exceed Table 910-1 parameters. Results highlighted in Gray exceed Table 910-1, but are below background levels.
- 3) "-" indicates no analysis.
- 4) See site map for sample locations
- 5) Samples collected post solidification of pit contents.
- 6) Contents disposed with pit liner/felt material.

Table 2
Location: FRU 297-28C
Lab Summary - Reserve Pit Contents Mix/Blend Results

Analytical Parameter (with units)	Reserve Pit											COGCC Table 910-1 Allowable Levels
	RP Mix Blend #1 1/4/12	RP Mix Blend #2 1/18/12	RP Mix Blend #3 1/18/12	RP Mix Blend #4 1/20/12	RP Mix Blend #5 1/20/12	RP Mix Blend #6 1/25/12	RP Mix Blend #7 1/25/12	RP Mix Blend #8 1/26/12	RP Mix Blend #9 1/26/12	RP Mix Blend #10 2/1/12	RP Mix Blend #11 2/1/12	
Accutest Job #	D30797	D31168	D31168	D31246	D31246	D31352	D31352	D31412	D31412	D31570	D31570	
Sample Type (Composite/Discrete)	C	C	C	C	C	C	C	C	C	C	C	
TPH (GRO) (mg/Kg)	10	-	-	-	-	-	-	-	-	-	-	-
TPH (DRO) (mg/Kg)	211	-	-	-	-	-	-	-	-	-	-	-
TPH (GRO + DRO) (mg/Kg)	221	-	-	-	-	-	-	-	-	-	-	-
Benzene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	500
Toluene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	0.170
Ethylbenzene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	85
Xylenes (total) (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	100
Acenaphthene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	175
Anthracene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	1000
Benzo(A)anthracene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	1000
Benzo(B)fluoranthene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	0.22
Benzo(K)fluoranthene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	0.22
Benzo(A)pyrene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	2.2
Chrysene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	0.022
Dibenzo(A,H)anthracene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	22
Fluoranthene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	0.022
Indo(1,2,3-C,D)pyrene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	1000
Naphthalene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	0.22
Pyrene (mg/Kg)	ND	-	-	-	-	-	-	-	-	-	-	23
Electrical Conductivity (mmhos/cm)	6.73	-	-	-	-	-	-	-	-	-	-	1000
Sodium Adsorption Ratio (SAR)	7.84	-	-	-	-	-	-	-	-	-	-	<4 or 2X BG
pH	10.95	-	-	-	-	-	-	-	-	-	-	<12
Arsenic (mg/kg)	4.2	3.8	3.8	4.3	4.2	4.5	6.1	3.4	4.1	10.91	10.83	6-9
Barium (mg/kg)	3,870	6,040	4,910	5,890	5,670	5,700	7,010	5,510	3,730	2.5	2.4	0.39
Cadmium (mg/kg)	<1.3	-	-	-	-	-	-	-	-	5.310	5.640	15000
Chromium (III) (mg/Kg)	22.6	-	-	-	-	-	-	-	-	-	-	70
Chromium (VI) (mg/Kg)	<0.52	-	-	-	-	-	-	-	-	-	-	120000
Copper (mg/kg)	9.3	-	-	-	-	-	-	-	-	-	-	23
Lead (inorganic) (mg/kg)	10.6	-	-	-	-	-	-	-	-	-	-	3100
Mercury (mg/kg)	<0.14	-	-	-	-	-	-	-	-	-	-	400
Nickel (mg/kg)	10.9	-	-	-	-	-	-	-	-	-	-	23
Selenium (mg/kg)	<6.7	-	-	-	-	-	-	-	-	-	-	1600
Silver (mg/kg)	<4.0	-	-	-	-	-	-	-	-	-	-	390
Zinc (mg/kg)	35.6	-	-	-	-	-	-	-	-	-	-	390
% Solids	75.1	78.5	81.2	81.1	79.3	79.3	76	77.5	80.1	86.9	80.9	23000

Notes:

- 1) ND = not detectible to the laboratory detection limit.
- 2) Results highlighted in yellow exceed Table 910-1 parameters. Results highlighted in Gray exceed Table 910-1, but are below background levels.
- 3) "-" indicates no analysis.



Photograph 1 – View of completed pit closure, Freshwater and Reserve Pits, , photo taken 3/5/2012, center facing NE



Photograph 2 – View of completed pit closure, Freshwater and Reserve Pits, , photo taken 3/5/2012, SW side facing NE



Photos Taken: 3/5/2012

XTO FRU 297-28C
Piceance Basin, CO

Site Photographs