

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)694-2100 Fax: (303)694-2109

DOCUMENT
#2222690

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
2/1/2012

1. OGCC Operator Number 100264	4. Contact Name Jessica Dooling
2. Name of Operator XTO Energy Inc	Phone 970-675-4122
3. Address: 9127 S Jamacia Drive	Fax 970-675-4150
City: Englewood State: CO Zip: 80112	
5. API Number 05-103-11099	OGCC Facility ID Number
6. Well/Facility Name: Freedom Unit	7. Well/Facility Number FRU 197-33A
8. Location (Qtr/Sec, Twp, Rng, Meridian) SWSE, Sec 33, T1S, R97W, 6th PM	
9. County Rio Blanco	10. Field Name Freedom Unit
11. Federal, Indian or State Lease Number COC 60722	

Complete the Attachment Checklist	GP OGCC
Survey Plat	
Directional Survey	
Surface Eqpm Diagram	
Technical Info Page	
Other	

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"/> FNL/SL <input type="checkbox"/> FEL/SL
Change of Surface Footage to Exterior Section Lines	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines	<input type="checkbox"/> <input type="checkbox"/>
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
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	<input type="checkbox"/> Remove from surface bond
Formation	Signed surface use agreement attached
Formation Code	
Spacing order number	
Unit Acreage	
Unit configuration	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	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 (5 mos from date casing set)
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	*submit cbl and cement job summaries
Method used	Cementing tool setting/perf depth
	Cement volume
	Cement top
	Cement bottom
	Date
<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 type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed:
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 see page 2
	<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: Jessica Dooling Date 2/1/2012 Email: jessica.dooling@xtoenergy.com
Print Name: Jessica Dooling Title: Environmental Coordinator

COGCC Approved

Chris CanfieldTitle FORDate 02/07/2012

CONDITIONS OF APPROVAL, IF ANY

Chris Canfield
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- | | | | |
|--|------------------------------------|-----------------------|--------------|
| 1. OGCC Operator Number: | 100264 | API Number: | 05-103-11099 |
| 2. Name of Operator: | XTO Energy Inc. OGCC Facility ID # | | |
| 3. Well/Facility Name: | Freedom Unit | Well/Facility Number: | FRU 197-33A |
| 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): | SWSE, Sec 33, T1S, 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 herin requests consideration of site-specific background Arsenic levels as an alternative to the Table 910-1 value for the FRU 197-33A locaiton. COGCC Table 910-1 Concentration Levels list the allowable concentration level for arsenic in soil at 0.39 mg/kg. However, COGCC has allowed site specific changes to allowable concentration levels based upon background concentration levels. At other locations COGCC has allowed the determination of allowable levels based upon a 10 % variability factor applied to background soil concentration values where the maximum allowable level is computed by multiplying the highest detected background concentration by 1.1.

Five representative background samples were collected from undisturbed areas adjacent to the subject location. Arsenic concentrations in those samples ranged from 3.7 mg/kg to 12.6 mg/kg. Applying the 10% variability factor to the highest concentration detected results in an allowable arsenic concentration level of 13.9 mg/kg.

Attached please find the Lab Data Summary Table, Lab Report D27140 and the Site Map indicating arsenic sampling locations attached.

Table 1
Location: FRU 197-33A
Lab Summary

Updated: 2/1/2012

Analytical Parameter	Fresh Water Pit				Reserve Pit				Cuttings #1			Cuttings #2			Background 08/30/11					Lone Spoil	COGCC	Background	
(with units)	FW Pit Contents 8/19/11	FW Subliner 11/14/11	FW Subliner - 1.5' 11/30/11	Backfill Material 10/26/11	Res Pit Contents 8/19/11	Res Pit Subliner 11/4/11	Res Pit Subliner Post Mix Blend 11/18/11	Res Backfill Cut #2 Pit MixBlend 10/25/11	Cut #1 Pit Contents 1/06/12	Pit Subliner date	Cut #1 Pit Backfill date	Cut #2 Pit Contents 4/06/11	Pit Subliner 4/06/11	Cut #2 Pit Backfilled April 2011 ⁵	#1	#2	#3	#4	#5	10/24/2011	Table 910-1 Allowable Levels	Maximum based on Background	
Accutest Job #	D26811	D29455	D29896	D28945	D26811	D29207	D29647	D28910	D30890			D22470	D22470	-						D27140	D28913	-	-
Sample Type (Composite/Discrete)	C	C	C	C	C	C	C	C	C			C	C	-	D	D	D	D	D	C	-	-	
TPH (GRO) (mg/Kg)	21100	51.8	ND	ND	9410	30	14.6	ND	57.0			34.6	ND	-	-	-	-	-	-	ND	-	-	
TPH (DRO) (mg/Kg)	288000	2710	83.0	ND	295000	752	189	ND	483			190	21.4	-	-	-	-	-	-	57.8	-	-	
TPH (GRO + DRO) (mg/Kg)	309100	2761.8	83.0	ND	304410	782	204	ND	540			224.6	21.4	-	-	-	-	-	-	57.8	500	-	
Benzene (mg/Kg)	140	ND	0.0524	ND	39.6	ND	ND	0.122	0.108			0.634	ND	-	-	-	-	-	-	ND	0.170	-	
Toluene (mg/Kg)	1220	ND	0.130	ND	424	ND	ND	0.382	0.845			1.69	0.075	-	-	-	-	-	-	ND	85	-	
Ethylbenzene (mg/Kg)	187	0.043	0.0338	ND	44.2	ND	ND	0.0585	0.243			0.227	ND	-	-	-	-	-	-	ND	100	-	
Xylenes (total) (mg/Kg)	3060	0.973	0.148	ND	1180	0.215	ND	0.432	1.33			1.61	0.144	-	-	-	-	-	-	ND	175	-	
Acenaphthene (mg/Kg)	ND	-	ND	-	2.64	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	1000	-	
Anthracene (mg/Kg)	ND	-	ND	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	1000	-	
Benzo(A)anthracene (mg/Kg)	ND	-	ND	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	0.22	-	
Benzo(B)fluoranthene (mg/Kg)	ND	-	ND	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	0.22	-	
Benzo(K)fluoranthene (mg/Kg)	ND	-	ND	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	2.2	-	
Benzo(A)pyrene (mg/Kg)	ND	-	ND	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	0.022	-	
Chrysene (mg/Kg)	ND	-	0.0013	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	22	-	
Dibenzo(A,H)anthracene (mg/Kg)	ND	-	ND	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	0.022	-	
Fluoranthene (mg/Kg)	ND	-	ND	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	1000	-	
Fluorene (mg/Kg)	77.9	-	0.0205	-	9.56	0.166	0.080	ND	0.0525			0.0851	ND	-	-	-	-	-	-	-	1000	-	
Indeno(1,2,3-C,D)pyrene (mg/Kg)	ND	-	ND	-	ND	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	0.22	-	
Napthalene (mg/Kg)	103	-	0.021	-	20.6	ND	ND	0.215	0.315			0.353	ND	-	-	-	-	-	-	-	23	-	
Pyrene (mg/Kg)	ND	-	ND	-	0.354	ND	ND	ND	ND			ND	ND	-	-	-	-	-	-	-	1000	-	
Electrical Conductivity (mmhos/cm)	2.02	-	2.11	-	3.98	0.83	1.11	1.42	6.05			3.86	2.15	-	-	-	-	-	-	-	<4 or 2X BG	-	
Sodium Adsorption Ratio (SAR)	23.9	-	7.42	-	34.8	11.9	11.5	11.4	89.1			17.9	14.1	-	-	-	-	-	-	-	<12	-	
pH	7.79	-	9.77	-	9.42	10.06	10.08	9.93	11.85			9.8	9.77	-	-	-	-	-	-	-	6-9	-	
Arsenic (mg/kg)	6.7	-	5.5	-	7	9.4	5.9	5.6	10.4			5.8	5.2	-	5.7	6	12.6	5.4	3.7	-	0.39	13.9	
Barium (mg/kg)	21200	-	420	-	36700	826	1090	5850	3640			4180	1590	-	-	-	-	-	-	-	15000	-	
Cadmium (mg/kg)	<3.9	-	<1.1	-	<4.7	<1.1	<1.1	<1.1	1.8			<1.2	<1.1	-	-	-	-	-	-	-	70	-	
Chromium (III) (mg/Kg)	80.7	-	18.2	-	91.9	32.6	33.1	39.1	12.9			18.7	22.5	-	-	-	-	-	-	-	120000	-	
Chromium (VI) (mg/Kg)	<1.6	-	<0.43	-	2.7	<0.44	<0.44	<0.45	<0.49			0.58	0.8	-	-	-	-	-	-	-	23	-	
Copper (mg/kg)	48	-	<11	-	113	13	11.8	15.1	29.9			22.5	14.4	-	-	-	-	-	-	-	3100	-	
Lead (inorganic) (mg/kg)	<20	-	<55	-	<23	12.1	11.5	13.8	40.5			16.4	13.3	-	-	-	-	-	-	-	400	-	
Mercury (mg/kg)	2.1	-	<0.11	-	1.3	<0.11	<0.11	<0.12	<0.12			<0.12	<0.1	-	-	-	-	-	-	-	23	-	
Nickel (mg/kg)	19.5	-	12.3	-	20.6	18.5	15.6	20.7	13.1			13.5	18.3	-	-	-	-	-	-	-	1600	-	
Selenium (mg/kg)	<98	-	<5.5	-	<120	<5.5	<5.7	<28	<6.1			<12	<5.4	-	-	-	-	-	-	-	390	-	
Silver (mg/kg)	<12	-	<3.3	-	<14	<3.3	<3.4	<3.3	<3.7			<3.6	<3.2	-	-	-	-	-	-	-	390	-	
Zinc (mg/kg)	66.7	-	27.2	-	56.2	45.1	44.1	34.5	37.5			37.3	45.1	-	-	-	-	-	-	-	23000	-	
% Solids	24.6	88.3	92.4	87.9	22.3	88.6	90.1	86.5	79.7			82.5	88.3	-	92	93	93.2	94	95.1	96.8	-	-	

Notes:

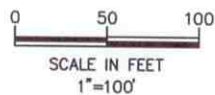
1) ND = not detectable to the laboratory detection limit.

2) Results highlighted in yellow exceed Table 910-1 concentration levels. 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) Cut 2 Backfilled with on site spoils. No visual staining or odor observed. QA performed by KRW.



NOTES:

1. ALL PIT SAMPLES ARE COMPOSITE SAMPLES.
2. BACKGROUND ARSENIC RESULTS ARE FROM DISCRETE SAMPLES.

LEGEND

- EDGE OF PAD
- POND / CUTTINGS
- ⊗ BK-4 BACKGROUND SAMPLE LOCATION (8/30/11)

FRESHWATER PIT
SUBLINER (-1.5')
TPH: 83 mg/kg
BENZENE: 0.0524 mg/kg
ARSENIC: 5.5 mg/kg

RESERVE PIT SUBLINER
(Post Mix/Bend)
TPH: 204 mg/kg
BENZENE: ND
ARSENIC: 5.9 mg/kg

CUTTINGS PIT #2 SUBLINER
TPH: 21.4 mg/kg
BENZENE: ND
ARSENIC: 5.2 mg/kg
(CLOSED APRIL 2011)

CUTTINGS PIT #1 PIT CONTENTS
TPH: 540 mg/kg
BENZENE: 0.108 mg/kg
ARSENIC: 10.4 mg/kg

⊗ BK-3
ARSENIC: 12.6 mg/kg

⊗ BK-1
ARSENIC: 5.7 mg/kg

⊗ BK-2
ARSENIC: 6.0 mg/kg

⊗ BK-5
ARSENIC: 3.7 mg/kg

⊗ BK-4
ARSENIC: 5.4 mg/kg

DESIGNED:

CHECKED:

FIGURE

NOTES:

DATE:

2/1/12

DRAWN:

DRF

1

FILE NAME:

sample ars rev1

SHEET NO.

1 of 1

PROJECT NO.

1103-03A

SCALE:

1"=100'

DATE

REVISIONS

KRW CONSULTING, INC.
8000 W. 14TH AVENUE, SUITE 200
LAKEWOOD, COLORADO
(303) 238-9011

FIGURE 1
PICEANCE CREEK
FRU 197-33A
SAMPLE LOCATIONS WITH
ARSENIC LEVELS
PREPARED FOR XTO ENERGY