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## State of Colorado

## Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 601 Denver, Colorado 80203 Phone: (303)694-2100 Fax: (303)694-2109



## 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  
6/4/2012

Pit Facility ID  
# 284544

1 OGCC Operator Number: 130264	4 Contact Name: Jessica Dooling	Complete the Attachment Checklist
2 Name of Operator: XTO Energy Inc.	5 Phone: 970-675-4122	
3 Address: PO Box 6501	6 Fax: 970-675-4150	OP OGCC
City: Englewood State: CO Zip: 80155		
5 API Number: 05-103-10809-00	OGCC Facility ID Number	Survey Plat
6 Well/Facility Name: Piceance Creek Unit	7 Well/Facility Number: 297-15A	Directional Survey
8 Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NE1/4 Sec 15, T2S, R97W, 6th PM		Surface Equipmt Diagram
9 County: Rio Blanco	10 Field Name: Piceance Creek	Technical Info Page
11 Federal, Indian or State Lease Number: COD952141		Other

## General Notice

☐ 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: ☐ ☐ ☐ ☐

Change of Surface Footage to Exterior Section Lines: ☐ ☐ ☐ ☐

Change of Bottomhole Footage from Exterior Section Lines: ☐ ☐ ☐ ☐

Change of Bottomhole Footage to Exterior Section Lines: ☐ ☐ ☐ ☐ attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer: \_\_\_\_\_

Latitude: \_\_\_\_\_ Distance to nearest property line: \_\_\_\_\_ Distance to nearest bldg, public rd, utility or RR: \_\_\_\_\_

Longitude: \_\_\_\_\_ Distance to nearest lease line: \_\_\_\_\_ Is location in a High Density Area (rule 603b)? Yes/No: ☐

Ground Elevation: \_\_\_\_\_ Distance to nearest well same formation: \_\_\_\_\_ Surface owner consultation date: \_\_\_\_\_

GPS DATA: Date of Measurement: \_\_\_\_\_ PDOP Reading: \_\_\_\_\_ Instrument Operator's Name: \_\_\_\_\_

☐ CHANGE SPACING UNIT: Formation: \_\_\_\_\_ Formation Code: \_\_\_\_\_ Spacing order number: \_\_\_\_\_ Unit Acreage: \_\_\_\_\_ Unit configuration: \_\_\_\_\_

☐ Remove from surface bond: Signed surface use agreement attached: ☐

☐ CHANGE OF OPERATOR (prior to drilling): Effective Date: \_\_\_\_\_ Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME: From: \_\_\_\_\_ To: \_\_\_\_\_ Effective Date: \_\_\_\_\_

☐ ABANDONED LOCATION: Was location ever built? ☐ Yes ☐ No Is site ready for inspection? ☐ Yes ☐ No Date Ready for inspection: \_\_\_\_\_

☐ NOTICE OF CONTINUED SHUT IN STATUS: Date well shut in or temporarily abandoned: \_\_\_\_\_ Has Production Equipment been removed from site? ☐ Yes ☐ No MIT required if shut in longer than two years Date of last MIT: \_\_\_\_\_

☐ SPUD DATE: \_\_\_\_\_ ☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK: Method used: \_\_\_\_\_ Cementing tool setting/perf depth: \_\_\_\_\_ Cement volume: \_\_\_\_\_ Cement top: \_\_\_\_\_ Cement bottom: \_\_\_\_\_ Date: \_\_\_\_\_

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004. Final reclamation will commence on approximately: \_\_\_\_\_ Final reclamation is completed and site is ready for inspection: ☐

## Technical Engineering/Environmental Notice

☐ Notice of Intent: Approximate Start Date: \_\_\_\_\_ ☐ Report of Work Done: 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"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other See Page 2	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 Johnson Date: 06/04/2012 Email: dolena.johnson@xtoenergy.com

Print Name: DOLENA JOHNSON Title: REGULATORY COMPLIANCE TECHNICIAN

COGCC Approved: Chris Camfield Title: FOR Date: 06/04/2012

CONDITIONS OF APPROVAL IF ANY

Chris Camfield  
EPS NW Region

Arsenic OK<sub>2</sub>



## TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 100264 API Number: 05-103-10809-00  
2. Name of Operator: XTO Energy Inc. OGCC Facility ID #  
3. Well/Facility Name: Piceance Creek Unit Well/Facility Number: 297-15A  
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENW, Sec.15, T2S, R07W, 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.

DESCRIBE PROPOSED OR COMPLETED OPERATIONS

XTO Energy herein requests consideration of site-specific background Arsenic levels as an alternative to the Table 910-1 value for the PCU 297-15A location. COGCC Table 910-1 Concentration Levels list the allowable concentration level for arsenic in soil at 0.39 mg/kg. Footnote 1 of Table 910-1 states "Consideration shall be given to background levels in native soils and ground water." 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.

Six representative background samples were collected from undisturbed areas adjacent to the subject location. Arsenic concentrations in those samples ranged from 5.9 mg/kg to 12.2 mg/kg. Applying the 10% variability factor to the highest concentration detected results in an allowable arsenic concentration level of 13.4 mg/kg.

Cuttings Pit #2 subliner Arsenic value of 17.1 mg/kg is above the allowable background value of 13.4 mg/kg. Cuttings Pit #2 contents Arsenic level was 5.4 mg/kg. The subliner Arsenic value of 17.1 mg/kg reflects the heterogeneous nature of the substrate and does not indicate subliner impacts due to operations.

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

**Table 1**  
**Location: PCU 297-15A**  
**Lab Summary**

Last update 5/24/2012

Analytical Parameter	Fresh Water Pit	Reserve Pit				Cuttings #1		Cuttings #2		Cuttings #3		Background 1/15/10 - 1/18/10						COGCC	Maximum based on Background
(with units)	FW Pit Contents	FW Pit Subliner <sup>6</sup> 1/25/12	RES Pit Contents 11/4/11	RES Pit Subliner <sup>5</sup> 1/11/12	RES Pit Subliner Under Berm 2/16/12	CUT #1 Pit Contents <sup>7</sup> 11/10/11	CUT #1 Pit Subliner 2/28/12	CUT #2 Pit Contents <sup>8</sup> 11/10/11	CUT #2 Pit Subliner 2/1/12	CUT #3 Pit Contents <sup>8</sup> 1/11/12	CUT #3 Pit Subliner <sup>5</sup> 3/5/12	Surface B1A (-1')	Deep B1B (-9.5')	Surface B2A (-1')	Deep B2B (-6.5')	Surface B3A (-1')	Deep B3B (-12')	Table 910-1 Concentration Levels	
Accutest Job #	De Minimis Contents	D31355	D29209	D30989	D32020	D29400	D32299	D29407	D31568	D30988	D32442	D10497						-	-
Sample type (Composite/Discrete)		C	C	C	C	C	C	C	C	C	C	D	D	D	D	D	D	-	-
TPH (GRO) (mg/Kg)		8.79	295	ND	ND	43.7	24.1	53.5	11.1	24.9	ND	-	-	-	-	-	-	-	-
TPH (DRO) (mg/Kg)		1320	2720	300	102	628	247	531	116	464	50.8	-	-	-	-	-	-	-	-
TPH (GRO + DRO) (mg/Kg)		1329	3015	300	102	672	271	585	127	489	50.8	-	-	-	-	-	-	500	-
Benzene (mg/Kg)		ND	0.461	ND	ND	0.12	0.0747	0.27	0.0457	0.346	ND	-	-	-	-	-	-	0.170	-
Toluene (mg/Kg)		ND	3.8	ND	-	0.933	0.170	1.47	0.118	1.35	ND	-	-	-	-	-	-	85	-
Ethylbenzene (mg/Kg)		ND	1.22	ND	-	0.259	ND	0.283	ND	0.202	ND	-	-	-	-	-	-	100	-
Xylenes (total) (mg/Kg)		ND	25.4	ND	-	1.2	0.225	1.76	0.170	1.62	ND	-	-	-	-	-	-	175	-
Acenaphthene (mg/Kg)		ND	ND	ND	-	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(A)pyrene (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	-	-	-	-	-	-	2.2	-
Benzo(K)fluoranthene (mg/Kg)		ND	ND	ND	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	0.022	-
Chrysene (mg/Kg)		ND	ND	ND	-	ND	ND	ND	0.0130	0.0428	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)		ND	ND	0.0744	-	ND	ND	ND	0.0212	0.0813	ND	-	-	-	-	-	-	1000	-
Indeno(1,2,3-C,D)pyrene (mg/Kg)		ND	ND	ND	-	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	0.22	-
Naphthalene (mg/Kg)		ND	0.554	ND	-	0.462	0.0903	0.407	0.0926	0.334	0.0195	-	-	-	-	-	-	23	-
Pyrene (mg/Kg)		ND	ND	ND	-	ND	ND	ND	0.0082	ND	ND	-	-	-	-	-	-	1000	-
Electrical Conductivity (mmhos/cm)		6.55	0.739	2.41	-	5.36	3.120	6.85	7.300	11.5	4.620	-	-	-	-	-	-	4	-
Sodium Adsorption Ratio (SAR)		31.9	8.57	23.5	-	74.2	18.1	66.2	28.0	385	35.1	-	-	-	-	-	-	12	-
pH		9.91	10.48	9.82	-	11.73	10.16	11.61	10.08	11.65	10.26	-	-	-	-	-	-	6-9	-
Arsenic (mg/kg)		4.2	5.7	5.2	-	12.2	6.5	5.4	17.1	7.2	4.4	7.1	12.2	5.9	8.7	5.9	6.4	0.39	13.4
Elevation in Feet (approximate)		6607	-	6606	-	-	6605	-	6604	-	6605	6602	6592.5	6598	6591.5	6630	6618	-	-
Barium (mg/kg)		1180	19200	896	-	4250	3170	10.7	3050	7460	2130	-	-	-	-	-	-	15000	-
Cadmium (mg/kg)		<1.1	<2.5	<1.1	-	<1.5	<1.2	<1.5	<1.0	<1.3	<1.2	-	-	-	-	-	-	70	-
Chromium (III) (mg/Kg)		52.6	17.8	34.9	-	15.5	31.6	11.8	34.1	11.6	32.5	-	-	-	-	-	-	120000	-
Chromium (VI) (mg/Kg)		0.75	1.9	<0.44	-	<0.59	<1.0	<0.56	<0.45	<0.54	1.0	-	-	-	-	-	-	23	-
Copper (mg/kg)		11.7	54.2	12.8	-	31.2	15.9	37.6	20.0	36.3	11.7	-	-	-	-	-	-	3100	-
Lead (inorganic) (mg/kg)		10.8	19.5	11.9	-	23.5	17.5	16.7	27.4	20.3	15.8	-	-	-	-	-	-	400	-
Mercury (mg/kg)		<0.11	<0.25	<0.11	-	<0.14	<0.13	<0.15	<0.11	<0.13	<0.12	-	-	-	-	-	-	23	-
Nickel (mg/kg)		21.9	13.6	15.1	-	15.4	16.2	12	17.6	11.7	14.4	-	-	-	-	-	-	1600	-
Selenium (mg/kg)		<5.7	<130	<5.6	-	<7.3	<6.0	<7.4	<5.2	<6.5	<6.2	-	-	-	-	-	-	390	-
Silver (mg/kg)		<3.4	<7.6	<3.3	-	<4.4	<3.6	<4.4	<3.1	<3.9	<3.7	-	-	-	-	-	-	390	-
Zinc (mg/kg)		38.2	59.1	41.2	-	59	46.7	57.4	72.6	49.9	43.4	-	-	-	-	-	-	23000	-
% Solids	-	88.3	37.0	89.9	87.3	66.5	79.4	69.4	89.6	74.2	82.9	91.3	92.4	88.0	88.4	89.6	86.8	-	-

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) Elevation data obtained by interpolating between adjacent pits.
- 6) See Table 4 and Table 5 for assessment and confirmation information.
- 7) See Table 2 for mix/blend details.
- 8) See Table 3 for mix/blend details.