

State of Colorado Oil and Gas Conservation Commission

1170 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



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 3/13/2012

1. OGCC Operator Number: 100264	4. Contact Name: Jessica Dooling	Complete the Attachment Checklist OP OGCC
2. Name of Operator: XTO Energy Inc	Phone: 970-675-4122	
3. Address: 9127 S Jamacia Drive City: Englewood State: CO Zip: 80112	Fax: 970-675-4150	
5. API Number 05-103-11157	OGCC Facility ID Number	Survey Plat
6. Well/Facility Name: Piceance Creek Unit	7. Well/Facility Number: PCU 297 12A	Directional Survey
8. Location (Qtr, Sec, Twp, Rng, Meridian): NWSW, 12, 2S, 97W, 6th		Surface Eqm't Diagram
9. County: Rio Blanco	10. Field Name: Piceance Creek Unit	Technical Info Page
11. Federal, Indian or State Lease Number		Other

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface ctr qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines: FNL/F FEL/FWL

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 blog 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 Core _____ 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 NUMBER
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 *submit cbl and cement job summaries
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: Jessica Dooling Date: 3/13/2012 Email: jessica_dooling@xtoenergy.com
Print Name: Jessica Dooling Title: Environmental Coordinator

COGCC Approved: Chris Canfield Title: FOR Date: 03/21/2012

CONDITIONS OF APPROVAL, IF ANY
Chris Canfield
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	100264	API Number:	05-103-11157
2. Name of Operator:	XTO Energy Inc.	OGCC Facility ID #	
3. Well/Facility Name:	Piceance Creek Unit	Well/Facility Number:	PCU 297-12A
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NWSW, 12, 2S, 97W, 6th		

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 297-20A 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.

Fifteen representative background samples were collected from undisturbed areas adjacent to the subject location. Arsenic concentrations in those samples ranged from 2.8 mg/kg to 7.4 mg/kg. Applying the 10% variability factor to the highest concentration detected results in an allowable arsenic concentration level of 8.1 mg/kg.

Subliner Arsenic samples were collected from the Freshwater (3.1 mg/kg), Reserve (4.2 mg/kg), Cuttings #1 (6.6 mg/kg) and Cuttings #2 (4.4 mg/kg) Pits. The subliner Arsenic concentrations are within the allowable background Arsenic concentration of 8.1 mg/kg.

The initial Cuttings Pit #1 contents Arsenic concentrations of 8.6 mg/kg and 10.0 are presumed to be the result of material from the Mancos formation. Ten additional discrete samples representing the Cuttings Pit contents including, in part, material from the Mancos formation were analyzed for Arsenic and result in a range of 7.4 mg/kg to 19.7 mg/kg with one outlier result of 61.9 mg/kg. The 61.9 mg/kg discrete sample result is not in line with the other discrete samples and reflects the heterogeneous nature of the substrate. It is our interpretation that the discrete Arsenic samples demonstrate that there were no anthropogenic affects to the Cuttings Pit#1 material and that the elevated Arsenic levels reflect contributions due to drilling through the Mancos formation.

Attached please find the Lab Data Summary Tables (Table 1 and Table 2), Lab Reports D26269, D29456, D29457, D31573, D31865 and Figure 1 indicating arsenic sampling locations attached.

Table 1
Location: PCU 297-12A
Lab Summary

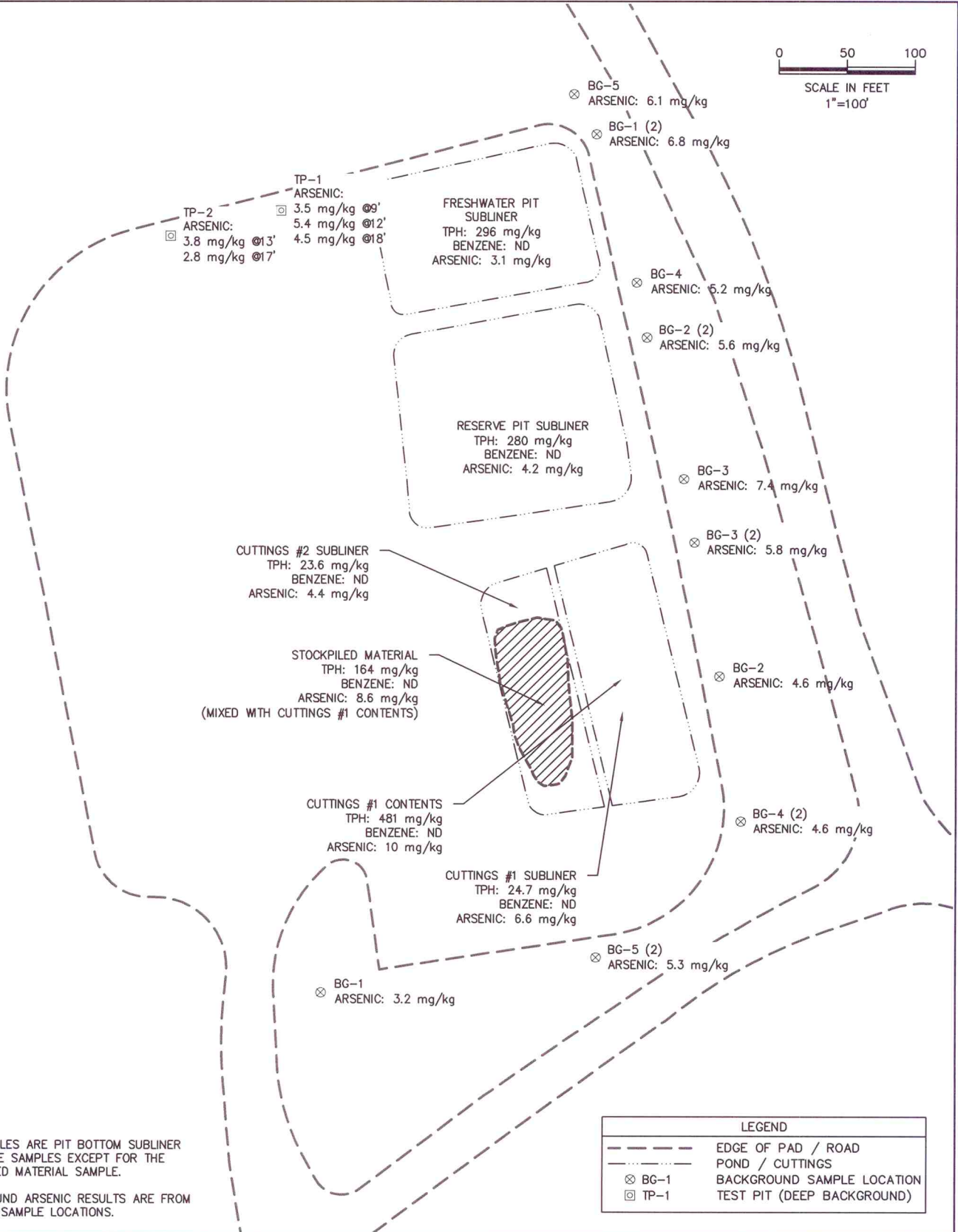
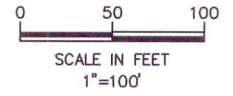
Analytical Parameter (with units)	Fresh Water Pit		Reserve Pit		Cuttings #1 Former CUT #1 (Stockpiled Over 2 Pit)		Cuttings #2		Backfill Material 10/28/11	COGCC Table 910-1 Concentration Levels	Maximum based on Background
	FW Subliner 6/28/11 ^{1, & 6}	FW Subliner 11/28/11 ⁶	RES Pit Contents 6/28/11	RES Pit Subliner 8/23/11	CUT #1 Pit Contents 8/9/11 ⁷	CUT #1 Cuttings # 7/18/11	CUT #1 Subliner 12/19/11	CUT #2 Pit Contents 6/28/11			
Accutest Job #	D24998	D29786	D24998	D26938	D26396	D25640	D30465	D24998	D26397	D28995	-
Sample type (Composite/Discrete)	C	C	C	C	C	C	C	C	C	C	-
TPH (GRO) (mg/Kg)	ND	ND	1,110	ND	73.3	ND	7.55	12.2	ND	ND	-
TPH (DRO) (mg/Kg)	296	59.2	6,030	280	408	164	17.1	557	23.6	ND	-
TPH (GRO + DRO) (mg/Kg)	296	59.2	7,140	280	481	164	24.7	569	23.6	ND	-
Benzene (mg/Kg)	ND	ND	2,340	ND	0.0929	ND	ND	1,790	ND	ND	500
Toluene (mg/Kg)	ND	ND	18,700	ND	1,210	ND	ND	4,680	ND	ND	0.170
Ethylbenzene (mg/Kg)	ND	ND	3,340	ND	0.384	ND	ND	0.238	ND	ND	85
Xylenes (total) (mg/Kg)	ND	ND	62,000	ND	1,800	ND	ND	3,600	ND	ND	100
Acenaphthene (mg/Kg)	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	175
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	1000
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	0.22
Benzo(A)pyrene (mg/Kg)	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	2.2
Chrysene (mg/Kg)	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.022
Dibenz(A,H)anthracene (mg/Kg)	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	22
Fluoranthene (mg/Kg)	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.022
Fluorene (mg/Kg)	0.0554	-	2,500	0.0386	ND	ND	ND	0.115	ND	ND	1000
Indo(1,2,3-C)Dipylene (mg/Kg)	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	0.22
Naphthalene (mg/Kg)	ND	-	3,780	ND	ND	0.182	ND	0.252	ND	ND	23
Pyrene (mg/Kg)	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	1000
Electrical Conductivity (mmhos/cm)	2.090	-	1,790	1,890	2,520	3,250	0.908	0.445	0.765	-	<4 or 2X BG
Sodium Adsorption Ratio (SAR)	19.7	-	21.2	25.8	43.2	9.51	12.5	6.99	12.5	-	<12
pH	9.35	-	10.45	10.03	11.55	9.38	9.95	9.00	9.89	-	6-9
Arsenic (mg/kg)	3.1	-	5.9	4.2	10.0	8.6	6.6	3.4	4.4	-	0.39
Barium (mg/kg)	407	-	9,770	288	2,090	3,740	257	7,070	858	-	15000
Cadmium (mg/kg)	<1.1	-	<2.3	<0.93	1.5	2.0	<1.2	<1.3	<1.1	-	70
Chromium (III) (mg/Kg)	38.4	-	14.6	35.7	14.8	22.3	53.4	11.0	46.8	-	120000
Chromium (VI) (mg/Kg)	0.90	-	<0.95	<0.42	<0.45	<0.53	0.70	<0.52	0.70	-	23
Copper (mg/kg)	10.8	-	36.4	7.5	25.1	25.1	14.6	35.6	16.4	-	3100
Lead (inorganic) (mg/kg)	11.4	-	12.9	10.3	12.9	19.3	11.9	13.1	13.7	-	400
Mercury (mg/kg)	<0.098	-	<0.23	<0.11	<0.098	<0.13	<0.12	<0.11	<0.12	-	23
Nickel (mg/kg)	17.4	-	12.4	13.8	14.9	16.9	22.2	11.0	23.3	-	1600
Selenium (mg/kg)	<5.3	-	<5.9	<4.6	<5.3	<34	<6.2	<33	<5.7	-	390
Silver (mg/kg)	<3.2	-	<7.0	<2.8	<3.7	<4.0	<3.7	<3.9	<3.4	-	390
Zinc (mg/kg)	36.8	-	42.6	36.9	51.9	43.2	45.0	47.3	50.3	-	23000
% Solids	87.8	84.3	41.0	92.8	88.2	73.7	84.3	75.7	86.4	87.3	-

Notes:
 1) Freshwater pit contained de minimus contents - transferred to reserve pit.
 2) ND = not detectable to the laboratory detection limit.
 3) Results highlighted in yellow exceed Table 910-1 parameters. Results highlighted in gray exceed Table 910-1, but are below background levels.
 4) "-" indicates no analysis.
 5) See site map for sample locations.
 6) Initial fresh water pit subliner sampled on 6/28/11. Solidified freshwater and reserve pit contents placed back in re-lined FW pit. Following 2nd liner removal, subliner resampled on 11/28/11.
 7) Cuttings #1 Pit content additional arsenic results as well as site background arsenic results are summarized on Table 2.

Table 2
Location: PCU 297-12A
Arsenic Sampling Summary
(Cuttings Pit #1 and Background Samples)

Analytical Parameter (with units)	Cuttings #1 ¹⁾										Background 8/4/11					Background 11/14/11					COGCC Table 910-1 Concentration Levels		Maximum based on Background			
	CUT #1 Contents #1 (2/1/12)	CUT #1 Contents #2 (2/1/12)	CUT #1 Contents #3 (2/1/12)	CUT #1 Contents #4 (2/1/12)	CUT #1 Contents #5 (2/1/12)	CUT #1 Contents #6 (2/13/12)	CUT #1 Contents #7 (2/13/12)	CUT #1 Contents #8 (2/13/12)	CUT #1 Contents #9 (2/13/12)	CUT #1 Contents #10 (2/13/12)	#1	#2	#3	#4	#5	#1	#2	#3	#4	#5	#1 TP-1 @ 9'	#2 TP-1 @ 12'		#3 TP-1 @ 18'	#4 TP-2 @ 13'	#5 TP-2 @ 17'
Acctest/Job #	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	-
Sample type (Composite/Discrete)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH (GFO) (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH (DRO) (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPH (GFO + DRO) (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes (total) (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(A)anthracene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(B)fluoranthene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(K)fluoranthene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(A)pyrene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(A,H)anthracene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indo(1,2,3-C)Dipylene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical Conductivity (mmhos/cm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium Adsorption Ratio (SAR)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic (mg/kg)	8.4	14.6	7.7	9.9	13.5	61.9	19.7	12.8	10.1	8.4	3.2	4.6	7.4	5.2	6.1	6.8	5.6	5.8	4.6	5.3	3.5	5.4	4.5	3.8	2.8	8.1
Barium (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III) (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (VI) (mg/Kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (inorganic) (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (mg/kg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Solids	94.4	95.9	95.0	84.9	78.7	80.3	84.9	74.0	81.3	81.2	83.9	89.0	91.6	87.5	86.6	83.2	82.9	81.9	82.1	81.2	85.3	87.3	86.4	90.0	85.5	-

Notes:
 1) ND = not detectable to the laboratory detection limit.
 2) 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) Per Schlumberger drill logs, Mancos Shale was encountered during well installation at approximately 12,000 feet below ground surface.



NOTES:

1. ALL SAMPLES ARE PIT BOTTOM SUBLINER COMPOSITE SAMPLES EXCEPT FOR THE STOCKPILED MATERIAL SAMPLE.
2. BACKGROUND ARSENIC RESULTS ARE FROM DISCRETE SAMPLE LOCATIONS.

LEGEND	
---	EDGE OF PAD / ROAD
...	POND / CUTTINGS
⊗ BG-1	BACKGROUND SAMPLE LOCATION
⊠ TP-1	TEST PIT (DEEP BACKGROUND)

s:\proj\cto_environmental\1105-16 - pcu 297-12a\civil 3d\sample ars all.dwg,3/12/12

DESIGNED: -	CHECKED: DK	FIGURE 1	NOTES:
DATE: 3/12/12	DRAWN: DRF		
FILE NAME: sample ars all	SHEET NO. 1 of 1	DATE	REVISIONS
PROJECT NO. 1105-16	SCALE: 1"=100'		

KRW CONSULTING, INC.
 8000 W. 14TH AVENUE, SUITE 200
 LAKEWOOD, COLORADO
 (303) 239-9011

FIGURE 1
 PICEANCE CREEK
 PCU 297-12A
 SAMPLE LOCATIONS WITH
 ARSENIC LEVELS
 PREPARED FOR XTO ENERGY