

State of Colorado  
**Oil and Gas Conservation Commission**



#8121

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: <u>100264</u>	Contact Name and Telephone: <u>Jessica Dooling</u>
Name of Operator: <u>XTO Energy Inc.</u>	No: <u>970-675-4122</u>
Address: <u>PO Box 6501</u>	Fax: <u>970-675-4150</u>
City: <u>Englewood</u> State: <u>CO</u> Zip: <u>80155</u>	
API Number: <u>05-103-11232</u> County: <u>Rio Blanco</u>	
Facility Name: <u>Freedom Unit</u> Facility Number: <u>295548 Drilling Pit</u>	
Well Name: <u>Freedom Unit</u> Well Number: <u>197-23A</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SESE, Sec. 23, T1S, R97W, 6th P.M.</u> Latitude: <u>39.945556</u> Longitude: <u>-108.241678</u>	

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): None (Please see below)

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-Crop Land, Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Piceance fine sandy loam, 5 to 15% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Nearest surface water is ~1800' (Bear Gulch). Nearest well is >1 mile.

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

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Abbreviated analyte list (TPH &amp; BTEX)</u>	<u>laboratory analysis</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

**REMEDIATION WORKPLAN**

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

No initial action taken, the location was constructed and never drilled.

Describe how source is to be removed:

NA

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.:

XTO is planning to close the pits on this location, the location was constructed and never drilled. Soil samples will be collected from each of the pit bottoms and sampled for an abbreviated analyte list (TPH & BTEX) to ensure COGCC Table 910-1 compliance. If impacts are discovered, XTO will notify COGCC as required by Rule 905.c to establish a path forward for remediation.

FORM  
27  
Rev 6/99

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



Tracking Number: \_\_\_\_\_  
Name of Operator: \_\_\_\_\_  
OGCC Operator No: \_\_\_\_\_  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No: \_\_\_\_\_

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REMEDIATION WORKPLAN (Cont.)

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 100 feet below the bottom of the pits. Soil samples will be collected for laboratory analysis (abbreviated analyte list; TPH & BTEX) 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.

The pits will be backfilled with clean fill material in accordance with COGCC 900 & 1000 series rules.

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:

If impacts are discovered, XTO will notify COGCC as required by Rule 905.c to establish a path forward for remediation.

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

NA

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 11/21/13 Date Site Investigation Completed: in progress Date Remediation Plan Submitted: 11/27/2013  
Remediation Start Date: pending approval Anticipated Completion Date: pending approval Actual Completion Date: TBD

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

Print Name: Jessica Dooling Signed: \_\_\_\_\_  
Title: Piceance EH&S Supervisor Date: 11/27/2013

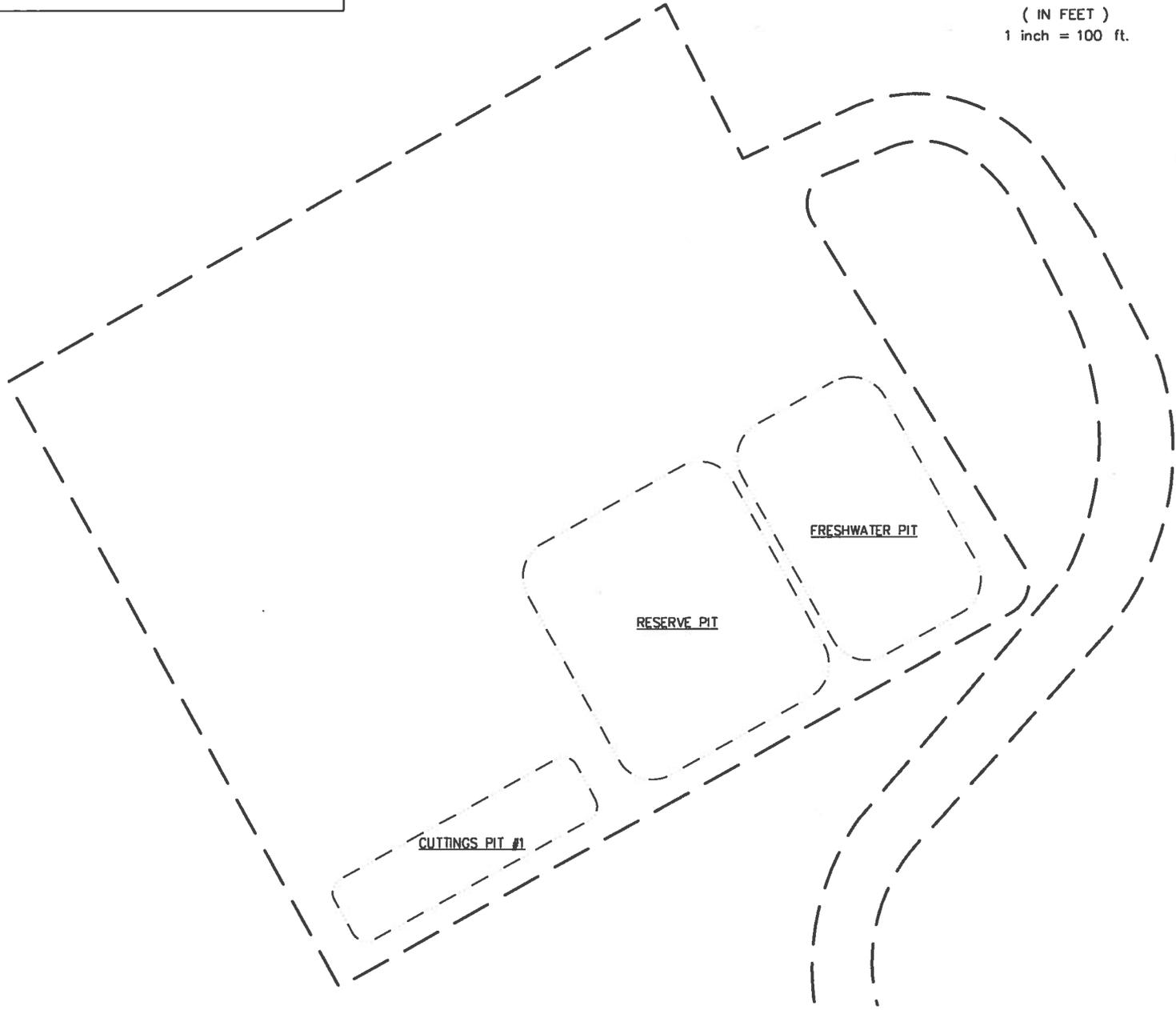
OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 12/18/2013  
PhD

LEGEND	
-----	EDGE OF PAD
- - - - -	TOP OF PIT

GRAPHIC SCALE



( IN FEET )  
1 inch = 100 ft.



CHECKED:	JH
DRAWN:	JORF
DATE:	
SCALE:	1" = 100'

FIGURE	1
SHEET NO.	1 of 1

DATE	REVISIONS

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

**FIGURE 1**  
**PICEANCE CREEK**  
**FRU 197-23A**  
**SAMPLE LOCATIONS MAP**  
**WITH ARSENIC LEVELS**  
**PREPARED FOR XTO ENERGY**