

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

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received 10/21/2014  
Project 8698  
Remediation 200415199  
Pit Facility 268854  
DOC 2142216

**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.

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): Production Pit Closure

OGCC Operator Number: <u>100264</u>	Contact Name and Telephone: <u>Irwin Trujillo</u>
Name of Operator: <u>XTO Energy Inc.</u>	No: <u>719 846.0272</u>
Address: <u>382 Road 3100</u>	Fax: <u>719 845.0108</u>
City: <u>Aztec</u> State: <u>NM</u> Zip: <u>87410</u>	

API Number: <u>05-071-07561</u>	County: <u>Las Animas</u>
Facility Name: _____	Facility Number: <u>268854</u>
Well Name: <u>Apache Canyon</u>	Well Number: <u>08-02R</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NW/NE, 08, 34S, 67W, 6th PM</u>	Latitude: <u>37.10416</u> Longitude: <u>104.907721</u>

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Produced Water

**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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Saruche / Rombo

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Surface Water - 141' Groundwater - 40'

Domestic water well - 2180'

**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>Minimal</u>	<u>Estimate</u>
<input type="checkbox"/> Vegetation	<u>N/A</u>	_____
<input type="checkbox"/> Groundwater	<u>N/A</u>	_____
<input type="checkbox"/> Surface Water	<u>N/A</u>	_____

**REMEDIATION WORKPLAN**

**Describe initial action taken** (if previously provided, refer to that form or document):  
No initial action has been taken.

**Describe how source is to be removed:**  
N/A

**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.:**  
Bottom of pit will be ripped up and soil will be added.



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

REMEDIATION WORKPLAN (Cont.)

OGCC Employee:

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

N/A

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 production pit will be backfilled and contoured accordingly.

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 [x] N If yes, describe:

Comparative composite samples of the pit and perimeter are included for review.

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

N/A

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 9/29/2014 Date Site Investigation Completed: 10/09/2014 Date Remediation Plan Submitted: 10/20/2014 Remediation Start Date: Contingent of COGCC Approval Anticipated Completion Date: Contingent on COGCC Approval Actual Completion Date:

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

Print Name: Irwin Trujillo

Signed: Irwin Trujillo

Digitally signed by Irwin Trujillo DN: cn=Irwin Trujillo, o=OGCC Energy, ou, email=irwin\_trujillo@ogccenergy.com, c=US Date: 2014.10.21 15:21:53 -0600

Title: EH&S Supervisor

Date: 10/21/14

OGCC Approved: Title: Date:

Notify COGCC when closure process is completed.

#### METALS

Analytical results demonstrate that background concentrations of arsenic (As) exceed Table 910-1 concentration levels. Analytical results demonstrate that concentrations of As in soils in the pit also exceed Table 910-1 concentration levels and the pit concentrations are less than or within analytical uncertainty of being equal to the background concentrations. The analytical results are summarized below:

METAL	BACKGROUND CONCENTRATION (MG/KG)	PIT CONTENTS, SOIL/BEDROCK BELOW PIT OR IMPACTED MEDIA (MG/KG)	TABLE 901-1 CONCENTRATION LEVELS (MG/KG)
Arsenic	3.06-4.27	3.62	0.39

COGCC and CDPHE have consulted and agree that operators do not need to request variances from CDPHE for instances where the concentrations of metals in impacted soils are equal to or less than background concentrations, but do not meet Table 910-1 concentration values. Operators must ensure that remaining pit contents are covered with a minimum of 3 feet of backfill and soil. The soil horizons must be replaced in their original relative position, and reclaimed in accordance with 1000 Series Rules.