

State of Colorado
Oil and Gas Conservation Commission

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received 07/08/2011
Project 5924
Remediation 200315116

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): Production Pit Closure

OGCC Operator Number: <u>08667</u>	Contact Name and Telephone: <u>Tom Melland</u>
Name of Operator: <u>Petroglyph Operating Company, Inc</u>	No: <u>719-742-5570</u>
Address: <u>PO Box 979</u>	Fax: <u>719-742-5571</u>
City: <u>La Veta</u> State: <u>CO</u> Zip: <u>81055</u>	

API Number: <u>055-06254</u>	County: <u>Huerfano #055</u>
Facility Name: _____	Facility Number: <u>263115</u>
Well Name: <u>MARTINEZ</u>	Well Number: <u>07-15</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SWSE 7 29S 66W 6</u>	Latitude: <u>37.531539</u> Longitude: <u>-104.820636</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 / Rangeland / Timber

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Olney-Progresso

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Surface Water - 2439' Ground Water - 600' Water Well - 3663'

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

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	_____	_____
<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):
Produced water from this well was stored in pit.

Describe how source is to be removed:
Produced water is no longer being store in the pit.

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.:
Produced water will no longer be produced.



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.):

It is not expected that the produced water stored in this pit communicated with or affected the groundwater.

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.

Remaining back berm soil and native soil gathered during recontouring will be used to backfill the pit. The top 3 feet of the sides of the pit will be scraped and buried under 3 feet of overburden within the bottom of the pit. If top soil is available it will be overlain on the fill material. Additional top soil will be brought in if needed. Seeds will be planted for re-vegetation of native grasses.

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:

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

Pit is dry. Produced water will no longer be produced.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 5/2011 Date Site Investigation Completed: 5/2011 Date Remediation Plan Submitted: 7/8/2011
Remediation Start Date: Immediate Anticipated Completion Date: 3rd QTR 2011 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: Tom Melland Signed: Thomas H. Melland
Title: District Manager Date: 7/8/2011

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	2.2	1.2-3.9	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.