

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

#6363

FOR OGCC USE ONLY
RECEIVED
10/12/2011
OGCC Employee:
<input type="checkbox"/> Spill <input type="checkbox"/> Complaint
<input type="checkbox"/> Inspection <input type="checkbox"/> NOAV
Tracking No:

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.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

OGCC Operator Number: <u>66571</u>	Contact Name and Telephone:
Name of Operator: <u>OXY USA WTP LP</u>	<u>Daniel Padilla</u>
Address: <u>760 Horizon Drive, Suite 101</u>	No: <u>(970) 263 - 3637</u>
City: <u>Grand Junction</u> State: <u>CO</u> Zip: <u>81506</u>	Fax: <u>(970) 263 - 3694</u>
API Number: <u>05-045-07810</u>	County: <u>Garfield County</u>
Facility Name: <u>CC Pond 11</u>	Facility Number: <u>414399 (Facility ID)</u>
Well Name: <u>Cascade Creek</u>	Well Number: <u>617-41</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NENE, Sec 17, T6S, R97W, 6th PM</u>	Latitude: <u>39.52846</u> Longitude: <u>-108.2373</u>

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Produced water was stored in permitted lined pit.

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.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Parachute-Rhone Loam, 5 to 30 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Nearest water well is ~1.20 miles west, nearest natural drainage is ~ 800' to the west, nearest surface water ~980' to the north east.

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

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	<u>Unknown - pit liner still in place.</u>	<u>Any identified impacts will be detailed in a Form 19 and supplement to this form 27.</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIALTION WORKPLAN

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

Oxy is proposing the closure of the existing storage pond. Oxy will remove all above-liner fluids and solids from the pit and will reintroduce into Oxy's fluid system or disposed of at a permitted disposal facility. Liners will be sampled then removed and disposed of at a permitted disposal facility. Samples will be collected from the pit bottom following removal of the pit liner and will be analyzed for compliance with COGCC Table 910-1. If any levels of the constituents of concern found below the liner are in excess of Table 910-1 allowable concentrations and above background concentrations, a Form 19 (Spill/Release Report) will be submitted to document the failure of the pit liner and subsequent release of fluids. After the liner is removed the pit bottom will be visually inspected for any signs of staining.

Describe how source is to be removed:

Any impacted material identified below the liner will be evaluated upon discovery and depending upon severity will be removed using heavy equipment and remediated onsite, or disposed of offsite at a permitted disposal facility. The effectiveness of the excavation efforts and removal impacts will be verified through sample collection and laboratory analysis conducted in accordance with the COGCC Table 910. Any impacts identified below the liner would be documented and reported on a Form 19.

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.:

If any impacted material will be removed and remediated it will occur onsite through blending and natural attenuation, and then returned to the excavation upon successful remediation of impacts. Complete removal of impacted materials, and successful remediation of impacts will be demonstrated through sample collection and laboratory analysis. In the event that groundwater contamination is identified, or the depth of contamination makes removal of impacted material through excavation impractical, the vertical and lateral extent of contamination would be determined by a third party contractor and an appropriate remediation plan would be developed and submitted to the COGCC for approval.

Submit Page 2 with Page 1

FORM 27 Rev 6/99

State of Colorado Oil and Gas Conservation Commission 1120 Lincoln Street, Suite 601, 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:

REMEDIATION WORKPLAN (Cont.)

OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.): In the event that impacts to groundwater are identified, a vertical and lateral extent would be determined and an appropriate remediation plan would be prepared and submitted to the COGCC for prior approval.

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 impression for the backfilled pit occurs within the pad boundary for this location. During interim reclamation the backfilled pit may be part of the pad's working surface; therefore, the pit will be recontoured level with the pad surface. Final reclamation activities will be carried out in accordance with COGCC requirements and the life of the pad.

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? [X] Y [] N If yes, describe:

Oxy will follow up a Form 27 providing the results of the pit closure investigation and recommendations for closure. Oxy will also provide revegetation efforts, monitoring for stormwater and semi-annual inspections of the site.

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

Oxy will notify the COGCC of the final disposition of the E&P waste and records of disposal will be available upon request. Revegetation efforts will be monitored semi-annually.

IMPLEMENTATION SCHEDULE

Table with 3 columns: Date Site Investigation Began, Date Site Investigation Completed, Date Remediation Plan Submitted, Remediation Start Date, Anticipated Completion Date, 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: Daniel Padilla Signed: [Signature] Title: Regulatory Advisor Date: 10/12/11

OGCC Approved: [Signature] Title: FOR Chris Canfield Date: 10/14/2011 EPS NW Region