

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

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FOR OGCC USE ONLY  
Received 02/13/15  
REM 8927  
Document 2314005  
OGCC Employee:  
 Spill  Complaint  
 Inspection  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: <u>Blair K. Rollins</u>
Name of Operator: <u>OXY USA WTP LP</u>	No: <u>(970) 263-3637</u>
Address: <u>760 Horizon Drive, Suite 101</u>	Fax: <u>(970) 263-3694</u>
City: <u>Grand Junction</u> State: <u>CO</u> Zip: <u>81506</u>	

API Number: _____	County: <u>Garfield</u>
Facility Name: <u>Oxy Mesa WS Pond</u>	Facility Number: <u>13E (#414403)</u>
Well Name: _____	Well Number: _____
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NESE, Sec 4, T6S, R97W, 6th PM</u> Latitude: <u>39.548658</u> Longitude: <u>-108.216361</u>	

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Not Applicable

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: Parachute-Irigul complex, 5-30% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Unnamed drainage approximately 940' to the southeast, unnamed drainage immediately adjacent to the southwest, unnamed creek located approximately 1,500' to the southwest.

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>All impacted material will be disposed of at a</u>	<u>Field screenings and laboratory analytical</u>
<input type="checkbox"/> Vegetation	<u>commercial offsite disposal facility, or remediated</u>	<u>results.</u>
<input type="checkbox"/> Groundwater	<u>onsite.</u>	_____
<input type="checkbox"/> Surface Water	_____	_____

**REMEDATION WORKPLAN**

Describe initial action taken (if previously provided, refer to that form or document):  
**Please reference attached Closure Narrative.**

Describe how source is to be removed:  
**Please reference attached Closure Narrative.**

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.:  
**Please reference attached Closure Narrative.**



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

Page 2  
**REMEDIATION WORKPLAN (Cont.)**

OGCC Employee: \_\_\_\_\_

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

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.  
**Please reference attached Closure Narrative.**

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:  
**Please reference attached Closure Narrative.**

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):  
**Please reference attached Closure Narrative.**

**IMPLEMENTATION SCHEDULE**

Date Site Investigation Began: \_\_\_\_\_ Date Site Investigation Completed: \_\_\_\_\_ Date Remediation Plan Submitted: \_\_\_\_\_  
Remediation Start Date: \_\_\_\_\_ Anticipated Completion Date: 6/30/2015 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: Blair K. Rollins Signed:   
Title: HES Specialist Date: February 12, 2015

OGCC Approved: Alex J Fischer Title: Environmental Supervisor Date: 2/23/15

OXY USA WTP LP  
Operator # 66571  
Pond 13 East (Facility ID #414403)

## Pond 13 Closure Narrative

### **Describe initial action taken:**

OXY USA WTP LP (Oxy) is requesting to initiate closure of the existing multi-purpose production pit. Oxy will remove all above-liner fluids and solids from the pond and the fluids will be reintroduced into Oxy's fluids system, while the solids will be treated on-site or disposed off-site. Visual inspection of the pond liner will be conducted prior to removal of the liner. Liner anomalies will be investigated, including inspection below the liner for impacts and characterization samples of the soil below the liner. Oxy will then remove the liner and conduct visual inspection and field screening of the pond bottom to characterize any suspected impacts below the liner. Following characterization, bedding soil confirmation samples will be collected and sent to a laboratory to be analyzed for compliance with COGCC Table 910-1 standards. If sample results from below the liner are in excess of COGCC Table 910-1 allowable concentrations and above background concentrations, they will be detailed in the closure reporting and follow-up Form 27 submittal. Following successful pond closure, Oxy will reconstruct the pond as part of a submitted Form 28 Centralized E&P Waste Management Facility.

### **Describe how source is to be removed:**

Any impacted material identified below the liner will be evaluated upon discovery and will be removed using heavy equipment and remediated on-site. The effectiveness of the excavation efforts and removed impacts will be verified through sample collection and laboratory analysis conducted in accordance with COGCC Table 910-1 standards. Any impacts identified below the liner will be documented and reported following closure regulations.

### **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 on impacted groundwater, insitu bioremediation, burning of oil vegetation, etc.:**

If any, impacted material will be removed and remediated on-site, or by off-site disposal. If on-site remediation occurs, the material will be returned to the excavation upon successful remediation of the 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 review and approval. Samples of the liner will be collected to facilitate off-site disposal at a commercial disposal facility. Following pond closure, Oxy will reconstruct the pond as part of a submitted Form 28 Centralized E&P Waste Management Facility.

### **If groundwater has been impacted, describe proposed monitoring plan:**

In the event that impacts to groundwater are identified, a vertical and lateral extent will be determined and an appropriate remediation plan will be prepared and submitted to the COGCC for review and approval.

OXY USA WTP LP  
Operator # 66571  
Pond 13 East (Facility ID #414403)

**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 preparation. Attach diagram or drawing. Use additional sheet for description if required.**

Oxy plans to utilize the location following remediation and closure for upgraded pond storage as part of a submitted Form 28 Centralized E&P Waste Management Facility application.

**Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an on-site schematic or drawing. Is further investigation required?**

Oxy will provide a Form 27 as follow-up to provide results of the pond closure investigation and recommendations for closure through the COGCC.

**Final disposition of E&P waste (land treated 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 within the closure Form 27 while records of disposal will be available upon request. Following pond closure, Oxy will reconstruct the pond as part of a submitted Form 28 Centralized E&P Waste Management Facility.