

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

#6068

FOR OGCC USE ONLY

RECEIVED  
8/18/2011

**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):

OGCC Operator Number: <u>66571</u>	Contact Name and Telephone: <u>Daniel Padilla</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: <u>05-045-10194</u>	County: <u>Garfield</u>
Facility Name: <u>OXY Mesa PP Federal (Pit)</u>	Facility Number: <u>273648</u>
Well Name: <u>OXY FEDERAL</u>	Well Number: <u>604-11</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW, Sec 4, T6S, R97W, 6th PM</u> Latitude: <u>39.560516</u> Longitude: <u>-108.231921</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.): Nearest water well is monitoring well owned and operated by Williams Production and is ~2980' west of the pit. A natural drainage connects with the head waters of Conn Creek ~ 625' southwest of the pit.

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>N/A</u>	<u>Laboratory analytical results</u>
<input type="checkbox"/> Vegetation	<u>N/A</u>	<u>Visual</u>
<input type="checkbox"/> Groundwater	<u>N/A</u>	<u>Visual inspection below pit liner</u>
<input type="checkbox"/> Surface Water	<u>N/A</u>	<u>Visual</u>

**REMEDIALTION WORKPLAN**

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

Oxy permitted the pit as a blowdown pit in September of 2004 and briefly converted it to a production pit in 2008 before it was closed. Oxy closed this pit in late 2008. Oxy is providing this pit closure form/plan for COGCC review/approval.

Describe how source is to be removed:

Oxy removed liquids from inside the pit; no solids were encountered. Liquids present in the pit were disposed of at the Black Mountain Disposal Facility near DeBeque, Colorado. Oxy disposed of the pit liner at Garfield County Landfill. Based on the sampling results of the pit bottom, all analytes are found to be below allowable concentration levels except for arsenic. Although the arsenic concentrations are above the COGCC regulated concentration, Oxy collected background samples in undisturbed locations which identified elevated concentrations of arsenic to be above concentrations found in the pit bottom.

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.:

Liquids were removed from the pit and no solids were encountered. Liquids present in the pit and the 30-mil high-density polyethylene liner were disposed of at commercial disposal facilities. Analytical concentrations found in the pit bottom are below the COGCC's table 910-1 concentrations except for As. The elevated concentrations of As have been found to be below As concentrations found in background samples. Oxy has submitted a Form 4 Sundry to account for this allowance. Oxy backfilled the pit with cuttings generated on-site. Oxy capped the pit with at least 6 inches topsoil to ensure a proper seed bed for revegetation. The backfilled pit was contoured to be level with the existing pad grade to minimize storm water erosion.

Submit Page 2 with Page 1

FORM  
27  
Rev 6/99

State of Colorado  
Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
(303)694-2100 Fax: (303)694-2109



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.).

No groundwater was impacted by the pit. The pit was lined with a 30-mil HDPE liner. This pit was used as a blowdown and production pit and no solids were encountered in the pit during closure activities. During excavation of the pit liner, an Oxy contractor was present to observe the soil below the liner. The Oxy contractor collected soil samples from below the pit liner to ensure environmental impacts were not present. Laboratory analytical results are included which identify the approximate sampling location within the pit at depth and compliance with the COGCC Table 910-1 allowable concentrations, except for arsenic. Oxy collected background samples in undisturbed locations which identified elevated concentrations of arsenic to be above concentrations found in the pit bottom. Oxy has submitted a Form 4 requesting a variance based on back ground concentrations of As.

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 pit was constructed at grade with Oxy's Cascade Creek 604-11 well pad, and was approximately 10 feet deep. The pit liner was sent to the Garfield County Landfill for disposal. The reclaimed pit was contoured to be level with the pad grade to minimize stormwater runoff. Final pad reclamation will occur at the end of 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?  Y  N If yes, describe:

Oxy has found all analytical results to be below 910-1 criteria therefore no further reclamation in necessary. Final pad reclamation will occur at the end of the life of the pad.

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

In 2008, Oxy removed all liquids within the pit and disposed of it at the Black Mountain Disposal Facility near DeBeque, Colorado. No solids were encountered during removal of the liquids from the pit. Note that the pit liner was disposed of at the Garfield County Landfill.

**IMPLEMENTATION SCHEDULE**

Date Site Investigation Began: 10/08/2008 Date Site Investigation Completed: 11/26/2008 Date Remediation Plan Submitted: \_\_\_\_\_  
Remediation Start Date: 10/23/2008 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: \_\_\_\_\_  
Title: Regulatory Advisor Date: 7/19/11

OGCC Approved: \_\_\_\_\_ Title: FOR Date: 08/31/2011  
Chris Canfield  
EPS NW Region

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 901, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



OE	ET	OE	ES

**SUNDRY NOTICE**

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 66571	4. Contact Name: Daniel Padilla	Complete the Attachment Checklist OP OGCC
2. Name of Operator: OXY USA WTP LP	Phone: (970) 263-3637	
3. Address: P.O. Box 27757 City: Houston State: TX Zip 77227-7757	Fax: (970) 243-2525	
5. API Number 05-045-10194	OGCC Facility ID Number 273648	Survey Plat
6. Well/Facility Name OXY FEDERAL	7. Well/Facility Number 604-11	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): NWNW, Sec 4, T6S, R97W, 6th PM		Surface Eqpmt Diagram
9. County: Garfield	10. Field Name: Grand Valley 31290	Technical Info Page
11. Federal, Indian or State Lease Number: COC-056830		Other: Pit Name & Type X

**General Notice**

**CHANGE OF LOCATION:** Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer \_\_\_\_\_ attach directional survey

Latitude \_\_\_\_\_ Distance to nearest property line \_\_\_\_\_ Distance to nearest bldg, public rd, utility or RR \_\_\_\_\_  
Longitude \_\_\_\_\_ Distance to nearest lease line \_\_\_\_\_ Is location in a High Density Area (rule 603b)? Yes/No   
Ground Elevation \_\_\_\_\_ Distance to nearest well same formation \_\_\_\_\_ Surface owner consultation date: \_\_\_\_\_

**GPS DATA:**  
Date of Measurement \_\_\_\_\_ PDOP Reading \_\_\_\_\_ Instrument Operator's Name \_\_\_\_\_

**CHANGE SPACING UNIT**  
Formation \_\_\_\_\_ Formation Code \_\_\_\_\_ Spacing order number \_\_\_\_\_ Unit Acreage \_\_\_\_\_ Unit configuration \_\_\_\_\_

**Remove from surface bond**  
Signed surface use agreement attached

<input type="checkbox"/> <b>CHANGE OF OPERATOR (prior to drilling):</b> Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> <b>CHANGE WELL NAME</b> NUMBER From: _____ To: _____ Effective Date: _____
<input type="checkbox"/> <b>ABANDONED LOCATION:</b> Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: _____	<input type="checkbox"/> <b>NOTICE OF CONTINUED SHUT IN STATUS</b> Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT _____
<input type="checkbox"/> <b>SPUD DATE:</b> _____	<input type="checkbox"/> <b>REQUEST FOR CONFIDENTIAL STATUS</b> (6 mos from date casing set)

**SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK** \*submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

**RECLAMATION:** Attach technical page describing final reclamation procedures per Rule 1004.  
Final reclamation will commence on approximately \_\_\_\_\_  Final reclamation is completed and site is ready for inspection.

**Technical Engineering/Environmental Notice**

Notice of Intent Approximate Start Date: 10/27/08  Report of Work Done Date Work Completed: \_\_\_\_\_

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Change from Blowdown to Production for Spills and Releases	

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

Signed: Daniel J. Padilla Date: 10/21/08 Email: daniel\_padilla@oxy.com  
Print Name: Daniel Padilla Title: Regulatory Coordinator

COGCC Approved: \_\_\_\_\_ Title \_\_\_\_\_ Date: \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number:	66571	API Number:	05-045-10194
2. Name of Operator:	OXY USA WTP LP	OGCC Facility ID #	273648
3. Well/Facility Name:	OXY Mesa PP Federal 604-11 Pit	Well/Facility Number:	604-11
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NWNW, 4, 6S, 97W, 6th		

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

**Name change:**

Original name: MCM 83-92  
New name: OXY Mesa PP Federal 604-11 Pit

**Change of pit type:**

The OXY Mesa PP Federal 604-11 Pit was relined and dimensions changed by Sundry (approved on 5/2/01). OXY would like to request a change in pit use, from a blowdown pit to a production pit.

State of Colorado  
Oil and Gas Conservation Commission



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SUNDRY NOTICE

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1. OGCC Operator Number: <u>66571</u>	4. Contact Name: <u>Daniel I. Padilla</u>	Complete the Attachment Checklist
2. Name of Operator: <u>OXY USA WTP LP</u>	Phone: <u>970.263.3637</u>	
3. Address: <u>780 Horizon Drive, Suite 101</u> City: <u>Grand Junction</u> State: <u>CO</u> Zip: <u>81506</u>	Fax: <u>970.263.3694</u>	
5. API Number <u>05-045-10194</u>	OGCC Facility ID Number <u>273648</u>	OP OGCC
6. Well/Facility Name: <u>Oxy Mesa PP Federal Pit</u>	7. Well/Facility Number <u>604-11</u>	Survey Plat
8. Location (Dir/Qtz, Sec, Twp, Rng, Meridian): <u>N44NW, Sec 4, T6S, R97W, 6th PM</u>		Directional Survey
9. County: <u>Garfield</u>	10. Field Name: <u>Grand Valley</u>	Surface Exgmt Diagram
11. Federal, Indian or State Lease Number: <u>COC-056830</u>		Technical Info Page <input checked="" type="checkbox"/>
		Other Lab data, map <input checked="" type="checkbox"/>

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtz/qr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:  FNL/FSL  FEL/PWL

Change of Surface Footage to Exterior Section Lines:

Change of Bottomhole Footage from Exterior Section Lines:

Change of Bottomhole Footage to Exterior Section Lines:  attach directional survey

Bottomhole location Qtz/Qtz, Sec, Twp, Rng, Mer \_\_\_\_\_

Latitude \_\_\_\_\_ Distance to nearest property line \_\_\_\_\_ Distance to nearest bldg, public rd, utility or RR \_\_\_\_\_

Longitude \_\_\_\_\_ Distance to nearest lease line \_\_\_\_\_ Is location in a High Density Area (rule 603b)? Yes/No

Ground Elevation \_\_\_\_\_ Distance to nearest well same formation \_\_\_\_\_ Surface owner consultation date: \_\_\_\_\_

GPS DATA:  
Date of Measurement \_\_\_\_\_ PDOP Reading \_\_\_\_\_ Instrument Operator's Name \_\_\_\_\_

CHANGE SPACING UNIT  
Formation \_\_\_\_\_ Formation Code \_\_\_\_\_ Spacing order number \_\_\_\_\_ Unit Acreage \_\_\_\_\_ Unit configuration \_\_\_\_\_

Remove from surface bond  
Signed surface use agreement attached

CHANGE OF OPERATOR (prior to drilling):  
Effective Date: \_\_\_\_\_  
Plugging Bond:  Blanket  Individual

CHANGE WELL NAME NUMBER  
From: \_\_\_\_\_  
To: \_\_\_\_\_  
Effective Date: \_\_\_\_\_

ABANDONED LOCATION:  
Was location ever built?  Yes  No  
Is site ready for inspection?  Yes  No  
Date Ready for Inspection: \_\_\_\_\_

NOTICE OF CONTINUED SHUT IN STATUS  
Date well shut in or temporarily abandoned: \_\_\_\_\_  
Has Production Equipment been removed from site?  Yes  No  
MIT required if shut in longer than two years. Date of last MIT \_\_\_\_\_

SPUD DATE: \_\_\_\_\_  REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK \*submit cbl and cement job summaries  
Method used \_\_\_\_\_ Cementing tool setting/perf depth \_\_\_\_\_ Cement volume \_\_\_\_\_ Cement top \_\_\_\_\_ Cement bottom \_\_\_\_\_ Date \_\_\_\_\_

RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.  
Final reclamation will commence on approximately \_\_\_\_\_  Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

Notice of Intent Approximate Start Date: \_\_\_\_\_  Report of Work Done Date Work Completed: \_\_\_\_\_

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Apply a different standard for Spills and Releases	

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

Signed: \_\_\_\_\_ Date: \_\_\_\_\_ Email: daniel\_padilla@oxy.com  
Print Name: Daniel I. Padilla Title: Regulatory Advisor

COGCC Approved: Chris Cunfield Title: FOR Date: 08/31/2011

CONDITIONS OF APPROVAL, IF ANY:

Chris Cunfield  
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

- 1. OGCC Operator Number: 66571 API Number: 05-045-10194
- 2. Name of Operator: OXY USA WTP LP OGCC Facility ID # 273648
- 3. Well/Facility Name: Oxy Mesa PP Federal 604-11 Pit Well/Facility Number: 604-11
- 4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW, Sec 4, T6S, R97W, 6th PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

OXY USA WTP LP (Oxy) has completed reclamation of the above-mentioned blowdown pit and will apply a different standard (see table on next page) to the COGCC Table 910-1 concentration levels for Arsenic (As). Based on post reclamation levels for As being below undisturbed background levels, Oxy's sundry will waive the COGCC Table 910-1 concentration for As. In this particular situation, the below the pit liner (Post Reclaim 11/26/2008) concentration for As is above COGCC Table 910-1 standards, but is below undisturbed background levels (see sampling locations on included location map).  
The sampling method Oxy employed was to take a representative random grab sample for each background sample location. The analytical concentrations table identifies the COGCC Table 910-1 concentration levels, Oxy's undisturbed background concentrations, and Oxy's post reclamation concentrations (Post Reclaim 11/26/2008). Based on the background sample concentrations, Oxy's sundry notice request to apply different standards to the COGCC Table 910-1 concentration levels due to elevated background concentrations for As.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
COC-056830

6. If Indian, Allottee or Tribe Name  
N/A

**SUBMIT IN TRIPLICATE -- Other instructions on page 2.**

1. Type of Well

Oil Well     Gas Well     Other

7. If Unit of CA/Agreement, Name and/or No.  
N/A

2. Name of Operator  
OXY USA WTP LP

8. Well Name and No.  
Oxy Mesa PP Federal 604-11 Pit

3a. Address  
P.O. Box 27757  
Houston, TX 77227-7757

3b. Phone No. (include area code)  
(970)263-3637

9. API Well No.  
05-045-10194

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NWNW, Sec 4, T6S, R97W, 6th PM

10. Field and Pool or Exploratory Area  
Grand Valley 31290

11. Country or Parish, State  
Garfield, CO

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Pit Closure	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

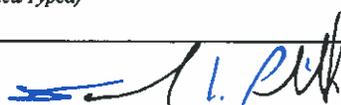
OXY USA WTP LP (Oxy) has completed reclamation of the production pit located on the Federal 604-11 pad. Attached please find the closure documentation for the pit which was submitted to the COGCC.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
Daniel Padilla

Title Regulatory Advisor

Signature



Date

8/17/11

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## Pit Reclaims - Cascade Creek

Pad #:	604-11
Sample Date:	11/26/2008
Clearance Achieved Date:	

	MCL (mg/kg)	Sample Identifications (mg/kg)				
		Post Reclaim	Background EB (12/13/10)	Background WB (12/13/10)	Background NB (12/13/10)	Background SB (12/13/10)
<b>Organics in Soil</b>						
TPH (GRO and DRO) - Sen Area	500	<4.0/<0.50	-	-	-	-
Benzene	0.17	<0.0025	-	-	-	-
Toluene	85	<0.025	-	-	-	-
Ethylbenzene	100	<0.0025	-	-	-	-
Xylenes	175	<0.0075	-	-	-	-
<b>Organics in Soil (PAH's)</b>						
Acenaphthene	1000	NA	-	-	-	-
Anthracene	1000	NA	-	-	-	-
Benzo(A)anthracene	0.22	NA	-	-	-	-
Benzo(B)fluoranthene	0.22	NA	-	-	-	-
Benzo(K)fluoranthene	2.2	NA	-	-	-	-
Benzo(A)pyrene	0.022	NA	-	-	-	-
Chrysene	22	NA	-	-	-	-
Dibenzo(A,H)anthracene	0.022	NA	-	-	-	-
Fluoranthene	1000	NA	-	-	-	-
Flourene	1000	NA	-	-	-	-
Indeno(1,2,3,C,D)pyrene	0.22	NA	-	-	-	-
Napthalene	23	NA	-	-	-	-
Pyrene	1000	NA	-	-	-	-
<b>Inorganics in Soil</b>						
EC	<4 mmhos/cm or 2X background	0.680	-	-	-	-
SAR	<12	1.3	-	-	-	-
pH	6-9	8.4	-	-	-	-
<b>Metals in Soils</b>						
Arsenic	0.39	2.1	2.6	2.4	2.0	2.7
Barium (LDNR True Total)	15000	220	-	-	-	-
Boron (Hot Water Soluble)	2 (mg/L)	<0.20 (SPLP)	-	-	-	-
Cadmium	70	0.53	-	-	-	-
Chromium	12000	60.0	-	-	-	-
Chromium VI	23	NA	-	-	-	-
Copper	3100	9.1	-	-	-	-
Lead	400	13.0	-	-	-	-
Mercury	23	<0.020	-	-	-	-
Molybdenum	(3) - See Below	0.71	-	-	-	-
Nickel	1600	34.0	-	-	-	-
Selenium	(3)/390	1.90	-	-	-	-
Silver	390	0.95	-	-	-	-
Zinc	23000	45.0	-	-	-	-

(3) - Per the Old COGCC Rules, "Considerations are dependent on site specific conditions"

# Federal 604-11 Blowdown Pit Sampling Figure

Revised: June 20, 2011 Garfield County, Colorado



Federal 604-11

-  Approximate Location of Blowdown Pit
-  Post Reclaim sample location (11/26/2008)
-  Background sample location another project



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Est. 1970

David Spencer  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Friday December 05, 2008

Report Number: L377030

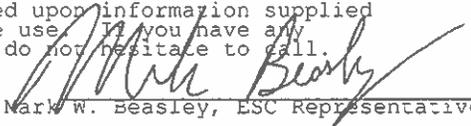
Samples Received: 11/29/08

Client Project: 7830-240

Description: Pit Bottom Sampling

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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Where applicable, sampling conducted by ESC is performed per guidance provided  
in laboratory standard operating procedures: 060302, 060303, and 060304.

22 Samples Reported: 12/04/08 17:52 Revised: 12/05/08 11:21

Page 1 of 25



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REPORT OF ANALYSIS

David Spencer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

December 05, 2008

Date Received : November 29, 2008  
Description : Pit Bottom Sampling  
Sample ID : 604-11 0-6IN  
Collected By : David Spencer  
Collection Date : 11/26/08 08:40

ESC Sample # : L377030-18

Site ID :

Project # : 7830-240

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	8.4		su	9045D	12/01/08	1
Sodium Adsorption Ratio	1.3			Calc.	12/01/08	1
Specific Conductance	680		umhos/cm	9050AMod	12/03/08	1
Mercury	BDL	0.020	mg/kg	7471	12/02/08	1
Arsenic	2.1	1.0	mg/kg	6010B	12/02/08	1
Beryllium	0.64	0.10	mg/kg	6010B	12/04/08	1
Cadmium	0.53	0.25	mg/kg	6010B	12/02/08	1
Chromium	60.	0.50	mg/kg	6010B	12/02/08	1
Copper	9.1	1.0	mg/kg	6010B	12/02/08	1
Lead	13.	0.25	mg/kg	6010B	12/02/08	1
Molybdenum	0.71	0.25	mg/kg	6010B	12/02/08	1
Nickel	34.	1.0	mg/kg	6010B	12/02/08	1
Selenium	1.9	1.0	mg/kg	6010B	12/02/08	1
Silver	0.95	0.50	mg/kg	6010B	12/02/08	1
Zinc	45.	1.5	mg/kg	6010B	12/02/08	1
Benzene	BDL	0.0025	mg/kg	8021/8015	11/30/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	11/30/08	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	11/30/08	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	11/30/08	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	11/30/08	5
Surrogate Recovery-%						
a, a, a-Trifluorotoluene (FID)	94.1		% Rec.	8021/8015	11/30/08	5
a, a, a-Trifluorotoluene (PID)	100.		% Rec.	8021/8015	11/30/08	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	12/01/08	1
Surrogate recovery(%)						
o-Terphenyl	54.9		% Rec.	3546/DRO	12/01/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 12/04/08 17:52 Revised: 12/05/08 11:21  
L377030-18 (PH) - 8.4@18.ic





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Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

### Report Summary

Wednesday December 29, 2010

Report Number: L493802

Samples Received: 12/15/10

Client Project:

Description: 604-11

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Entire Report Reviewed By:

Mark W. Beasley, ESC Representative

#### Laboratory Certification Numbers

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NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

December 29, 2010

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Date Received : December 15, 2010  
Description : 604-11  
Sample ID : 604-11-EB-121310  
Collected By : Jake Harris  
Collection Date : 12/13/10 15:20

ESC Sample # : L493802-01  
Site ID :  
Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	8.1			su		9045D	12/21/10	1
Sodium Adsorption Ratio	0.56					Calc.	12/20/10	1
Specific Conductance	230			umhos/cm		9050AMo	12/22/10	1
Arsenic	2.6	0.32	1.0	mg/kg		6010B	12/24/10	1

U = ND (Not Detected)  
MDL = Minimum Detection Limit = LOD  
RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:  
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L493802-01 (PH) - 8.1@18.4c



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REPORT OF ANALYSIS

December 29, 2010

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

ESC Sample # : L493802-02

Date Received : December 15, 2010  
Description : 604-11

Site ID :

Sample ID : 604-11-WB-121310

Project # :

Collected By : Jake Harris  
Collection Date : 12/13/10 15:30

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.3			su		9045D	12/21/10	1
Sodium Adsorption Ratio	0.90					Calc.	12/20/10	1
Specific Conductance	220			umhos/cm		9050AMo	12/22/10	1
Arsenic	2.4	0.32	1.0	mg/kg		6010B	12/24/10	1

U = ND (Not Detected)  
MDL = Minimum Detection Limit = LOD  
RDL = Reported Detection Limit = LOQ = PQL = EQL

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L493802-02 (PH) - 7.3@18.6c



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REPORT OF ANALYSIS

December 29, 2010

Brett Kennedy  
Oxy USA WTP LP - Grand Junction, CO  
760 Horizon Dr., Ste. 101  
Grand Junction, CO 81506

Date Received : December 15, 2010  
Description : 604-11  
Sample ID : 604-11-NB-121310  
Collected By : Jake Harris  
Collection Date : 12/13/10 15:10

ESC Sample # : L493802-03

Site ID :

Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.8			su		9045D	12/21/10	1
Sodium Adsorption Ratio	0.70					Calc.	12/20/10	1
Specific Conductance	240			umhos/cm		9050AMo	12/22/10	1
Arsenic	2.0	0.32	1.0	mg/kg		6010B	12/24/10	1

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD

RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:

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L493802-03 (PH) - 7.8@18.4c



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REPORT OF ANALYSIS

Brett Kennedy  
 Oxy USA WTP LP - Grand Junction, CO  
 760 Horizon Dr., Ste. 101  
 Grand Junction, CO 81506

December 29, 2010

Date Received : December 15, 2010  
 Description : 604-11  
 Sample ID : 604-11-SB-121310  
 Collected By : Jake Harris  
 Collection Date : 12/13/10 15:40

ESC Sample # : L493802-04  
 Site ID :  
 Project # :

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
pH	7.5			su		9045D	12/21/10	1
Sodium Adsorption Ratio	0.46					Calc.	12/20/10	1
Specific Conductance	60.			umhos/cm		9050AM	12/22/10	1
Arsenic	2.7	0.32	1.0	mg/kg		6010B	12/29/10	1

U = ND (Not Detected)  
 MDL = Minimum Detection Limit = LOD  
 RDL = Reported Detection Limit = LOQ = PQL = EQL

Note:  
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Reported: 12/29/10 16:30 Printed: 12/29/10 16:31  
 L493802-04 (PH) - 7.5@18.5c

Summary of Remarks For Samples Printed  
12/29/10 at 16:31:19

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L493802-01 Account: OXYWTPGJCO Received: 12/15/10 09:00 Due Date: 12/22/10 00:00 RPT Date: 12/29/10 16:30  
Sample: L493802-02 Account: OXYWTPGJCO Received: 12/15/10 09:00 Due Date: 12/22/10 00:00 RPT Date: 12/29/10 16:30  
Sample: L493802-03 Account: OXYWTPGJCO Received: 12/15/10 09:00 Due Date: 12/22/10 00:00 RPT Date: 12/29/10 16:30  
Sample: L493802-04 Account: OXYWTPGJCO Received: 12/15/10 09:00 Due Date: 12/22/10 00:00 RPT Date: 12/29/10 16:30