

FORM  
**27**  
Rev 6/99



#6937

State of Colorado  
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

Rec 4/5/12

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): Pit Closure

OGCC Operator Number: <u>24461</u>	Contact Name and Telephone: <u>Bill Warburton</u>
Name of Operator: <u>Diversified Operating Corporation</u>	No: <u>303 384-9611</u>
Address: <u>15000 W 6th. Ave. Suite 102</u>	Fax: <u>303 384-9612</u>
City: <u>Golden</u> State: <u>CO</u> Zip: <u>80401</u>	
API Number: <u>05-057-6124-00</u> County: <u>Jackson</u>	
Facility Name: _____ Facility Number: <u>115269</u>	
Well Name: <u>Allard</u> Well Number: <u>30-8-5</u> ( <u>Allard 1</u> )	
Location: (Qtr, Sec, Twp, Rng, Meridian): <u>SENE Sec 30 T10N R79W 8thPM</u> Latitude: <u>40.812241</u> Longitude: <u>106.301789</u>	

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Crude Oil

Site Conditions: Is location within a sensitive area (according to Rule 901a)?  Y  N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Grazing Land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Dobrow Loam

Potential receptors (water wells within 1/4 mi, surface waters, etc.): None

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>Oil stain on pit Berm</u>	<u>Visual</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

**REMEDATION WORKPLAN**

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

On Jan 26 an update was submitted with pictures showing the ice had been removed, the pit flooded with warm water and all the oil removed from the surface of the pit. The oil and water mixture was removed with a vacuum truck.

Describe how source is to be removed:

The dirt will be gathered up with a front end loader and backhoe. It will be stockpiled on location and a sample taken to Twin Enviro Service for analysis to be sure they will take it. Once this is established the material will be loaded on a truck and hauled to the licensed Disposal Facility.

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.:

The chain of custody will be documented by Trucking Company Bill of Lading and delivery receipt from the licensed Disposal Facility in Steamboat Springs, Colorado.

The soil from the sides and bottom of the Allard pit will be collected and sent to ACZ Laboratories in Steamboat Springs and analyzed for BETX content. Once the sample passes COGCC requirements the pit will be backfilled.

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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.):

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.

Pit will be backfilled in stages because of the shallow water table. Every attempt will be made to have this done before winter 2012 sets in. It is essential that we do the backfill in such a way that the soil is allowed to dry to some degree before the next layer is added. The area will not be seeded at this time since it is on the working production 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 [x] N If yes, describe:

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

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: Date Site Investigation Completed: Date Remediation Plan Submitted: 04/04/2012 Remediation Start Date: 04/03/2012 Anticipated Completion Date: 11/30/2012 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: Bill Warburton Signed: [Signature] Title: Petroleum Engineer Date: 04/04/2012

OGCC Approved: [Signature] Title: Env. Supervisor Date: 4/9/12

See conditions of approval dated April 9, 2012.

AK

**Document Number: 1949103      Form 27 Pit Closure      Facility ID: 115269**  
**DIVERSIFIED OPERATING CORPORATION, Allard 30-8-5 (Allard 1) Pit, SENW**  
**Section 30, T10N, R97W, 6<sup>th</sup> PM, Jackson County, Colorado,**

**April 9, 2012**  
**Form 27 Conditions of Approval (COAs) **

1. Discrete, non-composited representative soil samples shall be collected from the sides and bottom of the Allard pit and analyzed for the following.

**Inorganics in Soils**

Electrical Conductivity (EC)  
Sodium Adsorption Ratio (SAR)  
pH

**Metals in Soils**

Arsenic  
Barium (LDNR True Total  
Barium)  
Boron (Hot Water Soluble)  
Cadmium  
Chromium (III)  
Chromium (VI)  
Copper  
Lead (inorganic)  
Mercury  
Nickel (soluble salts)  
Selenium  
Silver  
Zinc

**Organic Compounds in Soil**

TPH (total volatile and extractable petroleum hydrocarbons)  
Benzene  
Toluene  
Ethylbenzene  
Xylenes (total)

2. Discrete, non-composited soil samples shall be collected from or near the location to demonstrate background concentrations of Arsenic. Should background Arsenic exceed the 910-1 concentrations in the background samples and those samples collected from the sidewalls and bottom pit, the COGCC will take the exceedance into consideration.