

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

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



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AUG 20 2008

**COGCC**

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): Earthen pit closure

OGCC Operator Number: 24320

Name of Operator: Diamond Operating, Inc.

Address: 6680 Gunpark Drive, Suite 100

City: Boulder State: CO Zip: 80301

Contact Name and Telephone:

Dave Peterson

No: 303-494-4420

Fax: 303-494-3931

API Number: 05-121-09650 00

County: Washington

Facility Name: \_\_\_\_\_

Facility Number: \_\_\_\_\_

Well Name: Witham

Well Number: #3

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NE 1-T4S-53W 6th PM Latitude: 39.73875 Longitude: 103.25739

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Produced water & some crude oil

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.): Dry land farming

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Weld silt loam

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Seasonal pond that fills with rain water 4000' to the northeast

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

Impacted Media (check):

☒ Soils

☐ Vegetation

☐ Groundwater

☐ Surface Water

Extent of Impact:

Some soil with minor oil stain

How Determined:

Visual and soil sample analysis

**REMEDIAL WORKPLAN**

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

The pit was allowed to dry out; previous operator removed most of the oil-stained soil in the skim pit and hauled to certified waste disposal site (Akron, CO landfill).

Describe how source is to be removed:

Backhoe

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 needed, any remaining soil with traces of oil staining will be land farmed on site.



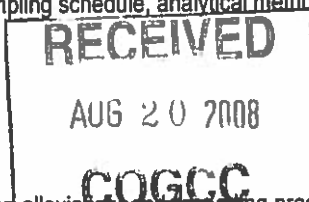
Tracking Number: \_\_\_\_\_  
Name of Operator: \_\_\_\_\_  
OGCC Operator No: \_\_\_\_\_  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No: \_\_\_\_\_

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**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 known impact.



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.

- 1) Remove any oil stained soil and land farm on pit site or handle pursuant to COGCC instruction.
- 2) Backfill pit and contour to existing grade.
- 3) Mix some clean soil with oil stained soil (if needed).
- 3) Spread oil stained soil (if needed) on top of old pit site for bioremediation.
- 4) Rip the site thoroughly to loosen soil in preparation for dry land farming operations.

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:

Operator will not perform further site investigation or begin final pit closure until given further instructions from COGCC personnel.

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

Landfarmed onsite if needed.

**IMPLEMENTATION SCHEDULE**

Date Site Investigation Began: 7/31/08 Date Site Investigation Completed: \_\_\_\_\_ Date Remediation Plan Submitted: 8/19/08  
Remediation Start Date: \_\_\_\_\_ Anticipated Completion Date: September 2008 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: Dave Peterson

Signed: \_\_\_\_\_

Title: President

Date: 8/19/08

OGCC Approved: \_\_\_\_\_

Title: EPS

Date: 9/26/08

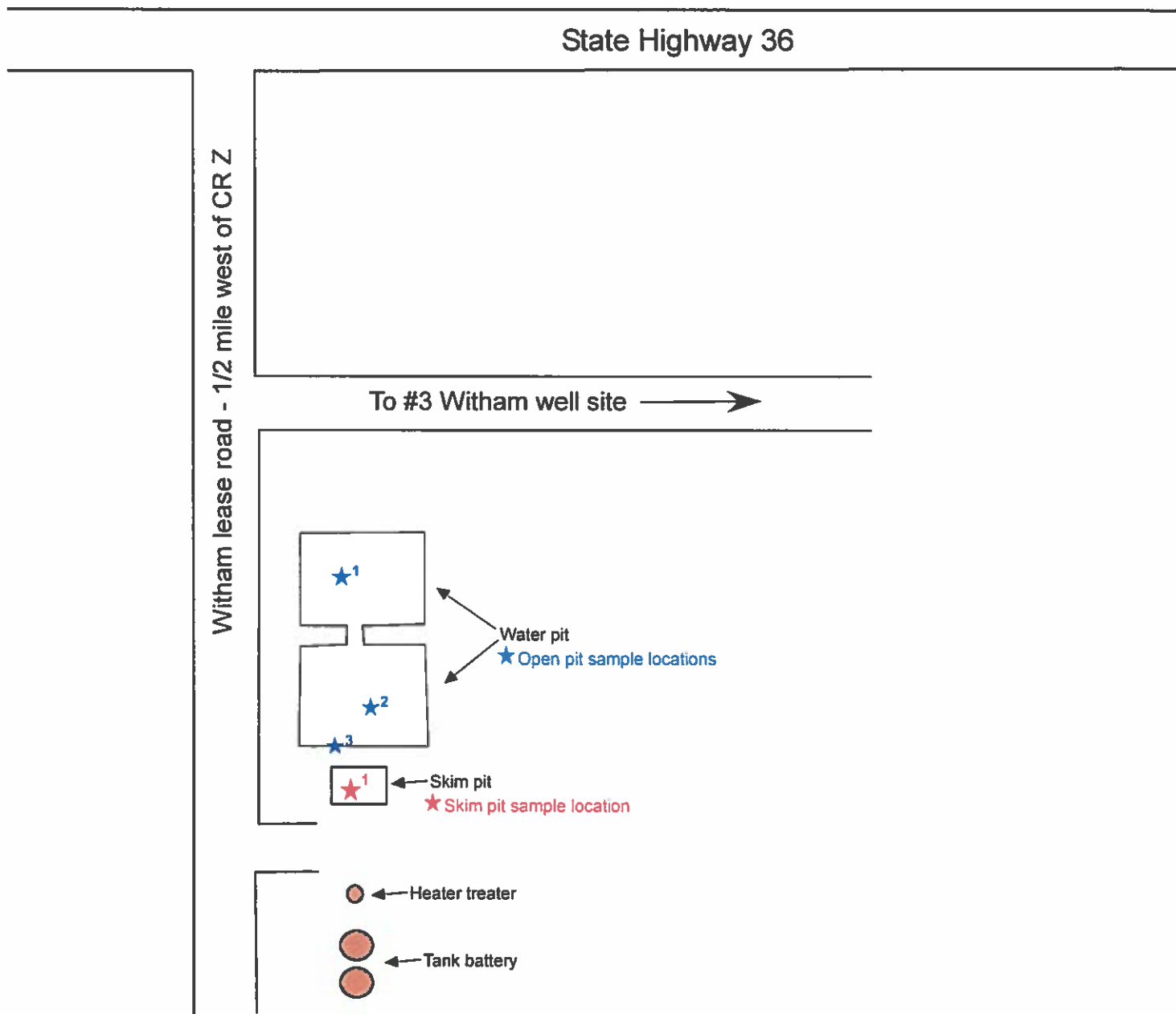
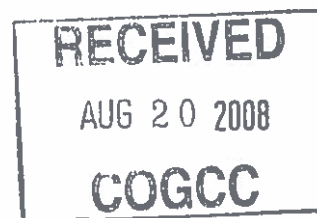


Diagram not to scale