



State of Colorado
Oil and Gas Conservation Commission

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#8068

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COGCC

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): skim pit closure

OGCC Operator Number: <u>94300</u>	Contact Name and Telephone: <u>Randy Ward</u>
Name of Operator: <u>Alfred Ward and Son Operating Company</u>	No: <u>308-280-0100</u>
Address: <u>Box 737</u>	Fax: <u>308-284-8351</u>
City: <u>Ogallala</u> State: <u>NE</u> Zip: <u>69153</u>	
API Number: <u>05-121-05261</u> County: <u>Washington</u>	
Facility Name: <u>State</u> Facility Number: <u>107645</u>	
Well Name: <u>State</u> Well Number: <u>1</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SESE 36 T3S R54W</u> Latitude: <u>39.744609</u> Longitude: <u>103.370532</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 901e)? Y N If yes, attach evaluation.

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

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

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Unnamed drainage

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>Staining of soil</u>	<u>Visual</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
Dug up skim pit, stockpile soil, test and backfill.

Describe how source is to be removed:

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.:
Land farm if necessary



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.):

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.

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:

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

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 08/2013 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: Randy Ward Signed: [Signature]
Title: Pres Date: 09/03/2013

OGCC Approved: [Signature] For John Napa Title: Environmental Protection Specialist Date: 09/25/2013

Document Number: 02313001

Alfred Ward and Son Operating Company

State 1 Pit Closure Pit ID: 107645 / Location ID: 316923

Form 27 Conditions of Approval (COAs)

- Four pits are registered at the State #1 well (API# 05-121-05261) location. Operator shall verify which pit is to be closed with accurate Latitude/Longitude for the **pit** location. In addition, operator shall provide accurate Latitude/Longitude for each **pit** location related to the State #1 well (API# 05-121-05261).
- Following the removal of any oily soils and excavation of the skim pit, a minimum of five confirmation soil samples -one from the pit bottom and one from each sidewall- shall be collected;
- All confirmation samples shall be collected from the undisturbed native soil underlying the collapsed sluff (please see the following comment);
- All soils shall be analyzed for Total Petroleum Hydrocarbons (Diesel Range Organics and Gasoline Range Organics), Benzene, Toluene, Ethylbenzene, Total Xylenes, Electrical Conductivity, pH, and Sodium Adsorption Ratio to verify compliance with Table 910-1 parameters;
- The soil sampling results must be submitted for prior approval before lining and reuse of the pit;
- Provide an analytical summary sheet/table comparing soil confirmation sample results to Table 910-1 Standards, a sample location diagram indicating the dimensions of the pit and final excavation dimensions, as well as the full laboratory analytical report, at minimum;
- Operator shall immediately submit a Form 15 pit permit;
- Operator shall provide a summary of the methods used to remediate the pit and surrounding impacted areas; and,
- Operator shall notify the COGCC 72 hours prior to initiating remedial activities.

Form 27 Comments

On October 29, 2013, the COGCC conducted an inspection of the State 1 Pit as referenced above. At the time of the inspection, an open excavation within the pit was observed. According to our records, the excavation has been open for a while. Due to the time lapse between the excavation activities and the inspection, it appears that the sidewalls have collapsed into the excavation. Based on these observations, the COGCC will require that all conformation samples be collected from the undisturbed soil below the collapsed material.

Document Number: 02313001, Alfred Ward and Son Operating Company

State 1 Pit Closure Pit ID: 107645 / Location ID: 316923