

State of Colorado
Oil and Gas Conservation Commission

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



#7366

FOR OGCC USE ONLY

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 Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

GENERAL INFORMATION

OGCC Operator Number: 7800		Contact Name and Telephone	
Name of Operator: Beren Corporation		Name: Rodney Reynolds	
Address: 2020 North Bramblewood Street		No: (316) 337-8340	
City: Wichita State: CO Zip: 81652		Fax: (316) 681-4740	
API/Facility No: 109549		County: Washington	
Facility Name: Loudder Oil Skim Pit		Facility Number:	
Well Name:		Well Number:	
Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec. 7 T4S R53W 6 PM		Latitude: 39.711878 Longitude: -103.356149	

TECHNICAL CONDITIONS

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

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☒ Y ☐ N If yes, attach evaluation. Groundwater <20' bgs

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Norka-Colby loams, 3 to 5 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Drainage is located 130' west of the site; a building is located 730' southwest of the site; a water well is located 735' south of the site; and depth to groundwater is 9' - 11' below ground surface downgradient from the produced water ponds.

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	30 feet x 40 feet (pit bottom)	Soil sampling/laboratory analysis
<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):

NA

Describe how source is to be removed:

See Attached Letter

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.:

Approximately 430 yards of impacted soil were transported to the Buffalo Ridge Landfill in Keenesburg, Colorado for disposal.

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REMEDIAL WORKPLAN (CONT.)

OGCC Employee: _____

Tracking Number: _____
Name of Operator: Beren Corporation
OGCC Operator No: 7800
Received Date: _____
Well Name & No: _____
Facility Name & No.: Loudder Oil Skim Pit

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
Groundwater was not encountered during excavation and sampling activities.

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 will be backfilled with clean soil. The ground surface will be contoured to match the existing grade and reseeded.

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:

Analytical results for the final soil stockpile and oil skim pit bottom indicate benzene, toluene, ethylbenzene, and total xylenes, and total petroleum hydrocarbons as gasoline range organics, diesel range organics, and oil range organics were compliant with Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 Concentration Levels.

As soil has been remediated to meet cleanup levels specified in COGCC Table 910-1, Beren is requesting a No Further Action determination for the pit closure.

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

Approximately 430 yards of impacted soil were transported to the Buffalo Ridge Landfill in Keenesburg, Colorado for disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: <u>8/14/2012</u>	Date Site Investigation Completed: <u>8/14/2012</u>	Remediation Plan Submitted: <u>10/18/2012</u>
Remediation Start Date: <u>9/11/2012</u>	Anticipated Completion Date: <u>NA</u>	Actual Completion Date: <u>9/11/2012</u>

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

Print Name: Rodney Reynolds

Signed: [Signature] Title: Division Engineer Date: 10/18/2012

OGCC Approved: ACE for John Axelsson Title: EPS NE Region Date: 10/23/2012