

State of Colorado
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

#7985

RECEIVED
9/18/2013

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: 2145523

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

GENERAL INFORMATION

OGCC Operator Number: 7800	Contact Name and Telephone
Name of Operator: <u>Beren Corporation</u>	Name: <u>Rodney Reynolds</u>
Address: <u>2020 North Bramblewood Street</u>	No: <u>(316) 337-8340</u>
City: <u>Wichita</u> State: <u>KS</u> Zip: <u>67206</u>	Fax: <u>(316) 681-4740</u>
API/Facility No: <u>05-123-05975</u>	County: <u>Weld</u>
Facility Name: <u>Moyer #16-30</u>	Facility Number: _____
Well Name: <u>Moyer #16-30</u>	Well Number: <u>#16-30</u>
Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>SESE Sec. 30 T12N R56W 6th PM</u>	Latitude: <u>40.97795</u> Longitude: <u>-103.673452</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. Surface water adjacent to site

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Eckley-Dix-Blakeland complex, 6-20% slopes, Bankard loamy fine sand, 0-3% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): An unnamed intermittent stream is located 200' north and east of the site.

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>Intermittent stream bed ~ 0.5' bgs</u>	<u>Sampling and laboratory analysis</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):
On July 12, 2013, the Colorado Oil & Gas Conservation Commission (COGCC) issued Beren Corporation (Beren) a Notice of Alleged Violation (NOAV) following an on-site field inspection (Document #667500201).

Describe how source is to be removed:
Beren plans to excavate soil to a depth already determined to be compliant with the COGCC Table 910-1 Concentration Levels. During excavation activities, Beren also plans to close the produced water pit and oil skim pit in accordance with Rule 905.

Please refer to the attached Site Investigation Results & Remediation Workplan report for more detail.

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.:
Any hydrocarbon material exceeding the COGCC Table 910-1 Concentration Levels will be removed and disposed of at a licensed disposal facility or landfarmed onsite until soil is compliant with COGCC Table 910-1 concentration levels.

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Tracking Number: Name of Operator: Beren Corporation OGCC Operator No: 7800 Received Date: Well Name & No: Moyer #16-30 Facility Name & No:

REMEDIATION WORKPLAN (CONT.)

OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.): Not applicable

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 excavated areas will be backfilled with COGCC Table 910-1 compliant soil and the ground surface will be contoured to match previous grade.

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: On July 25, 2013, and August 1, 2013, on behalf of Beren, LT Environmental, Inc. (LTE) personnel were on site (Figure 1) for an initial site assessment in accordance with Rules 909 and 910 to determine the vertical and lateral extent of impacts to the drainage. Soil samples were collected from the surface (Figure 2) and a depth determined to be compliant by visual observation and field screening for volatile organic compounds and total petroleum hydrocarbons (TPH) using a flame ionization detector. Soil samples were submitted to Summit Scientific, Inc. (Summit) of Golden, Colorado, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and TPH-gasoline range organics (GRO) by United States Environmental Protection Agency (EPA) Method 8260B and TPH-diesel range organics (DRO) by EPA Modified Method 8015. Select soil samples were also analyzed for pH by EPA Method 9045, specific conductance (EC) by Standard Method 2510B, and sodium adsorption ratio (SAR) by the United States Department of Agriculture Handbook 60 Method. Analytical results (Table 1) were used to determine the location and depth that will require excavation. Please refer to the attached Site Investigation Results & Remediation Workplan report for more detail.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.): Any hydrocarbon material exceeding the COGCC Table 910-1 Concentration Levels will be removed and disposed of at a licensed disposal facility or landfarmed onsite until soil is compliant with COGCC Table 910-1 concentration levels.

IMPLEMENTATION SCHEDULE

Table with 4 columns: Date Site Investigation Began, Date Site Investigation Completed, Remediation Plan Submitted, Remediation Start Date, Anticipated Completion Date, Actual Completion Date. Values: 7/25/2013, 8/1/2013, 9/18/2013, 7/25/2013, NA, TBD

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: 9/18/2013

OGCC Approved: ACE for John Axelsson Title: East Env. Supervisor Date: 9/18/2013