



01761336 State of Colorado



Oil and Gas Conservation Commission

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



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): Sensitive Area Determination

GENERAL INFORMATION

OGCC Operator Number: 7800
Name of Operator: Beren Corporation
Address: 2020 North Bramblewood Street
City: Wichita State: KS Zip: 67206
Contact Name and Telephone: Name: Rodney Reynolds No: (316) 337-8340
API/Facility No: 05-121-09042 County: Washington
Facility Name: Loudder 2-X Facility Number:
Well Name: Loudder Well Number: 2-X
Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Sec 7 T4S R53W 6th PM Latitude: Longitude:

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Not applicable
Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation. To Be Determined.
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.): Surface water 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 estimated to be 30' below ground surface.
Description of Impact (if previously provided, refer to that form or document):
Impacted Media (check): Soils Vegetation Groundwater Surface water
Extent of Impact:
How Determined:

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
A Notice of Alleged Violation (NOAV) was issued by the COGCC on May 9, 2012 (NOAV #200350687).
Describe how source is to be removed:
Impact has not yet been identified at the site. See attached workplan for details on sensitive area determination.
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.:
Not applicable.



Tracking Number: 1761336  
 Name of Operator: Beren Corporation  
 OGCC Operator No: 7800  
 Received Date: 6/11/12  
 Well Name & No: Loudder 2-X  
 Facility Name & No.: Loudder 2-X

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: Axelson

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):  
 Groundwater monitoring wells will be installed to determine if groundwater impact exists. See attached workplan.

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.  
 Not applicable at this time.

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:  
 Not applicable.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):  
 Not applicable.

IMPLEMENTATION SCHEDULE

|                                |            |                                    |            |                             |                  |
|--------------------------------|------------|------------------------------------|------------|-----------------------------|------------------|
| Date Site Investigation Began: | <u>TBD</u> | Date Site Investigation Completed: | <u>TBD</u> | Remediation Plan Submitted: | <u>6/11/2012</u> |
| Remediation Start Date:        | <u>TBD</u> | Anticipated Completion Date:       | <u>NA</u>  | Actual Completion Date:     | <u>TBD</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: 6/11/2012

OGCC Approved: [Signature] Title: EPS Date: 6/15/12

see conditions of approval. [Signature]

Beren Corporation  
Loudder 2-X, API #121-09042  
Form 27 – Document #1761336  
Conditions of Approval

The Form 27 is approved with the following conditions:

- In addition to the analytes listed in the work plan, analyze water samples from MW-2 & MW-3 for the full RCRA list of volatile organic compounds in addition to BTEX by EPA Method 8260B and semi-volatile organic compounds by EPA Method 8270.
- If groundwater is not contacted in the borings by 35-feet, the borings shall be extended to a depth where wet or saturated conditions are observed or until probe refusal.
- If groundwater is not contacted in the upgradient location MW-01, a water sample from one of the nearby shallow DWR permitted water wells could be sampled as a substitute to establish background water quality conditions including TDS, Chloride & Sulfate.