

State of Colorado
Oil and Gas Conservation Commission



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FOR OGCC USE ONLY

REM 9933

Document 2527356

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): _____

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

OGCC Operator Number: 10516

Name of Operator: LINN OPERATING INC

Address: 600 Travis St.

City: Houston

State: TX Zip: 77019

Contact Name and Telephone:

Derek Johnson, Superintendent

No: 970-274-3335

Fax: _____

API Number: 05-045-14204

County: Garfield

Facility Name: Latham Berry 1-22 (F-01 Freshwater)

Facility Number: 290695

Well Name: N/A

Well Number: N/A

Location: (QtrQtr, Sec, Twp, Rng, Meridian): SENE 1 6S97W

Latitude: 39.55545

Longitude: -108.1706

TECHNICAL CONDITIONS

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

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.): Industrial, grazing

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: well drained parachute-irigul loams

Potential receptors (water wells within 1/4 mi, surface waters, etc.): approx. 1,200' to nearest surface water

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

Impacted Media (check):

☒ Soils☐ Vegetation☐ Groundwater☐ Surface Water

Extent of Impact:

11,520 cu yards

How Determined:

Visual inspection

REMEDIALTION WORKPLAN

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

In October of 2015, the pit was drained of fresh water, the liner was removed and sent to an approved disposal facility. Excavated pit material and pit bottoms were sampled on September 28th, 2016. Pit bottom material was sampled and met COGCC TABLE 910-1 standards (see attached lab results).

Describe how source is to be removed:

The pit will be backfilled with clean fill material on-site and will be stabilized per COGCC standards during interim reclamation.

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.:

Exterior slopes shall be pulled up and materials shall be pushed into existing pit excavation. Top soil will be spread over all slopes and will be seeded with the landowner's approved seed mix.



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REMEDIATION WORKPLAN (Cont.)

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

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

No groundwater impacts occurred, as the pit was drained before pit liner was removed and soil in the pit bottom was sampled. Small amounts of water on the pit liner that could not be captured by vacuum truck likely had contact with soil, but not in any volume that could reach or impact groundwater through percolation.

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.

- Spoil material will be blended with clean fill and buried on location per COGCC standards.
- Exterior slopes on west and north sides shall be pulled up and materials shall be pushed into existing pit. Top soil will be spread over all slopes and will be seeded with the landowner's approved seed mix.
- Linn Operating, Inc. has addressed all wildlife concerns during the site stabilization of this pad.

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.):

Soils will be beneficially reused in interim site reclamation.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: October 2015 Date Site Investigation Completed: 11/10/16 Date Remediation Plan Submitted: 11/14/16
Remediation Start Date: October 2015 Anticipated Completion Date: 1/1/17 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: Bryan Burns

Signed: 

Title: Sr. Environmental, Health, & Safety Specialist

Date: 11/14/16

OGCC Approved: _____ Title: _____ Date: _____