

State of Colorado
Oil and Gas Conservation Commission



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

FOR OGCC USE ONLY

REM 9932

Document 2527342

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): _____

OGCC Operator Number: 53255

Name of Operator: Maralex Resources, Inc.

Address: P.O. BOX 338

City: Ignacio State: CO Zip: 81137

Contact Name and Telephone:

Kerry Tahmahkera

No: 970-563-4000

Fax: 970-563-4116

API Number: 05-045-06050

County: GARFIELD

Facility Name: _____

Facility Number: _____

Well Name: Calf Canyon

Well Number: 24-2

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NENE 24 6S 102W 6PM Latitude: 39.532743 Longitude: -108.707175

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Produced Water, Some Condensate

Site Conditions: Is location within a sensitive area (according to Rule 901a)? ☐ Y ☐ N If yes, attach evaluation.

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): No water wells within a mile of the site. Surface waters, 200ft+ to Barrel Spring Creek. No impact noted in any site investigations.

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

Impacted Media (check):

☒ Soils
☒ Vegetation
☐ Groundwater
☐ Surface Water

Extent of Impact:

Total depth of impact TBD, surface around wellhead approx 15ft radius
Dead grasses and shrubs, which needed to be cleared away.
Impacts unknown but not expected (refer to groundwater on pg 2)
No impact currently observed.

How Determined:

Observations. Future excavation will reveal depth.
Visual Observations

REMEDIALTION WORKPLAN

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

Initial action detailed in Form 19 DOC#401142675 and DOC#401145827. Leak was stopped 11/03/2016. Site investigation performed by Sean Norris/Norris Environmental, LLC.

Describe how source is to be removed:

The contaminated soil will be excavated under the guidance Sean Norris. Upon excavating thoroughly, the soil will be hauled off location to an approved disposal facility (listed on page 2) and confirmation samples will be collected to confirm that contaminated soil was sufficiently excavated.

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.:

See above for removal and disposal. Page 2 lists further details.



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

Page 2

REMEDIAION WORKPLAN (Cont.)

OGCC Employee: _____

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

Ground water impact is currently unknown, but is not expected. If ground water is reached in excavation, groundwater samples will be collected and further plans for monitoring will be submitted if 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.

This is an active well site. Following excavation and confirmation sampling, the backfilled area will be left as bare ground as required around the wellhead/equipment.

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:

Characterization samples have already been taken, once excavation is completed, confirmatory samples will be collected and analytical results will be submitted.

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

Contaminated soil will be disposed of at the S-Road Waste Facility at 1962 4 Road (Baxter Pass Road), Mack, CO 81525.

IMPLEMENTAION SCHEDULE INFORMATION: Timing is still contingent on access agreements, equipment & contractor agreements, as well as the weather. Anticipated start for excavation is the week of December 5th, 2016. Completion will depend on the extent of impact, excavation required, and other determining factors including the weather. Original site investigation by Maralex employee began on 11/3/2016. Site investigation by Enviornmental contractor began 11/11/2016.

IMPLEMENTATION SCHEDULE

| | | |
|---|--|---|
| Date Site Investigation Began: 11/11/2016 | Date Site Investigation Completed: TBD | Date Remediation Plan Submitted: 11/30/2016 |
| Remediation Start Date: pending 12/5/2016 | Anticipated Completion Date: TBD | 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: Kerry Tahmahkera

Signed: *Kerry Tahmahkera*

Title: Production Technician

Date: 11/30/2016

OGCC Approved: _____ Title: _____ Date: _____