FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

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

#8493

FOR OGCC USE ONLY

RECEIVED
5/14/2014

OGCC Employee:
☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No:

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 Operator Number: 53255
Name of Operator: Maralex Resources, Inc.
Address: P.O. Box 338
City: Ignacio, State: CO Zip: 81137

Contact Name and Telephone:
Naomi Azulai and Jim Graves
No: (970) 563-4000
Fax: (970) 563-4116

API Number: 05-077-05061 County: Mesa
Facility Name: Facility Number:
Well Name: Cameo Federal Well Number: C-1
Location: (QtrQtr, Sec, Twp, Rng, Meridian): Sec. 35 - Township 9S Range 99 W Latitude: 39.22852 Longitude: 103.41035

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Low-level Petroleum Hydrocarbon contamination in the Diesel Range

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.): non-cropland - undeveloped

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Yamo, moist-Redcreek complex, 3 to 25 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): none

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

Impacted Media (check):		Extent of Impact:	How Determined:
☐	Soils	Based on Characterization Data & Observation - NA	lab analysis - Not visually apparent
☐	Vegetation	growing grass and weeds in pit bottom	Visual
☐	Groundwater	N/A - GW was not observed in the pit	of April 4, 2013 - Visual
☐	Surface Water	N/A - evidence or stormwater was not observed	In the Pit as of of April 9, 2014 - Visual

REMEDIATION WORKPLAN

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

Characterization sampling was performed by ESI on April 9, 2014. A composite soil sample was obtained from the pit bottom. The sample was analyzed for parameters contained in the COGCC Table 910-1.
Based on the reported laboratory data, the soil does not exceed COGCC Table 910-1 Concentration Levels with the following exception: Arsenic concentrations from the composite soil obtained from the pit's bottom and from the two undisturbed locations adjacent to pit were reported at 13.6, 7.9, 6.6 mg/kg. Arsenic occurs naturally at the site and at concentrations that exceed the COGCC Standard of 0.39 mg/Kg.

Describe how source is to be removed:

No source removal is necessary, this pit is no longer in use.

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.:

Since the analysis of the samples taken are below the limits set by the COGCC, there is no further need for remediation of the pit.

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Received Date: _____
Well Name & No: _____
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.):

Evidence of stormwater or groundwater was not observed in the pit at the time of our site visit on April 9, 2014.

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 reclaimed by backfilling it with soil from the earthen berms. The material will be graded so stormwater flows away from the pit.

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:

No additional site investigation is required. The analytical results are attached.

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

Exploration and production waste have not been generated.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: April, 2014	Date Site Investigation Completed: May 7, 2014	Date Remediation Plan Submitted: N/A
Remediation Start Date: Reclamation June 1, 2014	Anticipated Completion Date: June 1, 2014	Actual Completion Date: TBD

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

Print Name: Naomi Azulai Signed: _____

Title: Production Technician Date: 5/14/2014

OGCC Approved: Carlos Lujan, Ph.D. Title: Digitally signed by Carlos Lujan, Ph.D. DN: cn=Carlos Lujan, Ph.D., o=COGCC, ou=EPS NW Region, email=carlos.lujan@state.co.us, c=US Date: 2014.06.24 10:02:29 -06'00' Date: _____