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

#8270

FOR OGCC USE ONLY

OGCC Employee:

☒ Spill ☐ Complaint
☐ Inspection ☐ NOAV
Tracking No: 2147293

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

Contact Name and Telephone:
Naomi Azulai
No: 970-563-4000
Fax: 970-563-4116

API Number: 05-077-08371 County: Mesa
Facility Name: USA-610S98W/22SWSW Facility Number: 312576
Well Name: USA Well Number: 1-20JC
Location: (QtrQtr, Sec, Twp, Rng, Meridian): NWNE Sec 20 T9S R98W 6 Latitude: 39.26309 Longitude: -108.351182

TECHNICAL CONDITIONS

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

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 (recreational-currently under use ban)

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Travelsilla - rock outcrop complex, 10 to 35% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Dry ephemeral stream bed 1175' North of site

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

Impacted Media (check):	Extent of Impact:	How Determined:
☑ Soils	See Form 19 Doc# 2147293 and attached report	soil testing through laboratory analysis and PID
☐ Vegetation	none	visually
☐ Groundwater	none known	sampling proposed
☐ Surface Water	none	No surface water in area. Ephemeral stream bed is dry.

REMEDIATION WORKPLAN

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

See Document # 2147293.
Catch basin, cut-off trench, removal of soil to temporary stock pile, absorbent booms in ephemeral stream bed, plug and abandon well. (See attached report for details)

Describe how source is to be removed:

The well was plugged and abandoned under the supervision of Chuck Browing of the COGCC and witnessed by Ed Fancher of the BLM. Plugging opperations were completed on 1/27/2013.

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.:

Contaminated soil will be excavated and removed from site in the pad and upland areas. The ravine and ephemeral stream bed will be treated with a bio-remediation application and tested bi-monthly. The pit will be closed according to standard COGCC procedure. (See attached report for details)

Submit Page 2 with Page 1

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Tracking Number:
Name of Operator:
OGCC Operator No:
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.):

It has not been determined that ground water has been impacted. Two bore hole samples are proposed to evaluate if vertical communication of contaminants has occured near the well. (See Remediation Section of attached report)

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.

All equipment, facilities, materials and trash shall be removed from site.
All excavated areas will be backfilled.
Backfill will be used to contour the area to blend with natural topography.
Topsoil will be prepared for seeding by pitting, raking or harrowing no more than 24 hours prior to seeding.
Disturbed areas will be seeded according to BLM requirements, including certified weed free seed mix and application rate. Seeding shall take place between September 15th and first frost.
Weed free waddles will be installed on areas susceptible to erosion. Waddles will be removed when vegetation has reduced the opportunity for erosion.
The site shall be regularly monitored by operator until vegetation is comparable to surroundings.

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:

During remediation efforts, confirmation samples will be obtained to verify sufficient removal of contaminants.
Samples will be taken bi-monthly in the ephemeral stream bed to monitor reduction in chemicals of concern with the application of a bio-remediation treatment since the BLM requests that the stream bed be left undesturbed. (See report for details)

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

A final disposal facility has not yet been selected.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 12/17/2013	Date Site Investigation Completed: ongoing	Date Remediation Plan Submitted: 1/13/14, 1/28/13
Remediation Start Date: 12/16/2013	Anticipated Completion Date: 12/2014	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: Naomi Azulai Signed:

Title: Production Technician Date: 2/13/2014

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: 2014.03.19 11:22:08 -06'00' Date: