

# State of Colorado Energy & Carbon Management Commission

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



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Receive Date:

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Report taken by:

Steven Arauza

## Site Investigation and Remediation Workplan (Supplemental Form)

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. However, this shall not preclude the Operator from taking immediate action to protect public health or safety, the environment, wildlife, or livestock.

This Form 27 describes site conditions as currently understood by the Operator; approval of this Form 27 by COGCC is based on the site conditions accurately described herein; any changes in site conditions identified during or subsequent to the performance of the approved workplan may necessitate additional investigation or remediation which shall be described on a supplemental Form 27. This Form 27 is intended to provide basic information regarding the proposed site investigation and remediation actions, but the workplan may be more fully described in attached documentation.

Closure request is not available for an Initial Site Investigation and Remediation Workplan.

### OPERATOR INFORMATION

|                                                         |                                         |                             |
|---------------------------------------------------------|-----------------------------------------|-----------------------------|
| Name of Operator: <u>VISION ENERGY LLC</u>              | Operator No: <u>10770</u>               | <b>Phone Numbers</b>        |
| Address: <u>P O BOX 370</u>                             |                                         |                             |
| City: <u>IGNACIO</u> State: <u>CO</u> Zip: <u>81137</u> |                                         |                             |
| Contact Person: <u>Trish Harrison</u>                   | Email: <u>trishharrison@eis-llc.com</u> |                             |
|                                                         |                                         | Phone: <u>(970) 5634000</u> |
|                                                         |                                         | Mobile: <u>( )</u>          |

### PROJECT, PURPOSE & SITE INFORMATION

#### PROJECT INFORMATION

Remediation Project #: 24628 Initial Form 27 Document #: 403125022

#### PURPOSE INFORMATION

- ☐ Rule 913.c.(1): Pit or Cuttings Trench closure.
- ☐ Rule 913.c.(2): Buried or partially buried vessel closure, which will be by removal.
- ☐ Rule 913.c.(3): Remediation of Spill and Releases pursuant to Rule 912.
- ☐ Rule 913.c.(4): Land treatment of Oily Waste pursuant to Rule 905.e.
- ☐ Rule 913.c.(5): Closure of Centralized E&P Waste Management Facilities pursuant to Rule 907.h.
- ☐ Rule 913.c.(6): Remediation of impacted Groundwater pursuant to Rule 915.e.(3).D, and the contaminant concentrations in Table 915-1.
- ☐ Rule 913.c.(7): Investigation and remediation of natural gas in soil or Groundwater.
- ☐ Rule 913.c.(8): When requested by the Director due to any potential risk to soil, Groundwater, or surface water.
- ☒ Rule 913.c.(9): Decommissioning of Oil and Gas Facilities.
- ☐ Rule 913.g: Changes of Operator.
- ☒ Rule 915.b: Request to leave elevated inorganics in situ.
- ☐ Other: \_\_\_\_\_

#### SITE INFORMATION

Yes Multiple Facilities

|                                                        |                            |                               |                                                                |
|--------------------------------------------------------|----------------------------|-------------------------------|----------------------------------------------------------------|
| Facility Type: <u>WELL</u>                             | Facility ID: _____         | API #: <u>077-08308</u>       | County Name: <u>MESA</u>                                       |
| Facility Name: <u>MOULTON VALLEY UNIT 6-19-1-1</u>     | Latitude: <u>39.139315</u> | Longitude: <u>-108.529102</u> |                                                                |
| ** correct Lat/Long if needed: Latitude: _____         |                            | Longitude: _____              |                                                                |
| QtrQtr: <u>NESW</u>                                    | Sec: <u>19</u>             | Twp: <u>1N</u>                | Range: <u>1E</u> Meridian: <u>U</u> Sensitive Area? <u>Yes</u> |
| Facility Type: <u>LOCATION</u>                         | Facility ID: <u>312469</u> | API #: _____                  | County Name: <u>MESA</u>                                       |
| Facility Name: <u>MOULTON VALLEY UNIT-U1N1E 19NESW</u> | Latitude: <u>39.139271</u> | Longitude: <u>-108.528896</u> |                                                                |
| ** correct Lat/Long if needed: Latitude: _____         |                            | Longitude: _____              |                                                                |
| QtrQtr: <u>NESW</u>                                    | Sec: <u>19</u>             | Twp: <u>1N</u>                | Range: <u>1E</u> Meridian: <u>U</u> Sensitive Area? <u>Yes</u> |

## **SITE CONDITIONS**

General soil type - USCS Classifications CL

Most Sensitive Adjacent Land Use Grand Junction  
Airport

Is domestic water well within 1/4 mile? No

Is surface water within 1/4 mile? No

Is groundwater less than 20 feet below ground surface? No

### **Other Potential Receptors within 1/4 mile**

## **SITE INVESTIGATION PLAN**

### **TYPE OF WASTE:**

- |                                          |                                                      |                                                   |
|------------------------------------------|------------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> E&P Waste       | <input type="checkbox"/> Other E&P Waste             | <input checked="" type="checkbox"/> Non-E&P Waste |
| <input type="checkbox"/> Produced Water  | <input type="checkbox"/> Workover Fluids             | Wellhead Equipment                                |
| <input type="checkbox"/> Oil             | <input type="checkbox"/> Tank Bottoms                |                                                   |
| <input type="checkbox"/> Condensate      | <input type="checkbox"/> Pigging Waste               |                                                   |
| <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rig Wash                    |                                                   |
| <input type="checkbox"/> Drill Cuttings  | <input type="checkbox"/> Spent Filters               |                                                   |
|                                          | <input type="checkbox"/> Pit Bottoms                 |                                                   |
|                                          | <input type="checkbox"/> Other (as described by EPA) |                                                   |

### **DESCRIPTION OF IMPACT**

| Impacted?    | Impacted Media | Extent of Impact | How Determined |
|--------------|----------------|------------------|----------------|
| UNDETERMINED | SOILS          | TBD              | Soil Sample    |

### **INITIAL ACTION SUMMARY**

Description of initial action or emergency response measures take to abate, investigate, and/or remediate impacts associated with E&P Waste.

Soil sample from area where wellhead was located.

### **PROPOSED SAMPLING PLAN**

#### **Proposed Soil Sampling**

☒ Will soil samples be collected as part of this investigation? ( Number, type (grab/composite), analyses, and locations of samples ):

One soil sample at the wellhead. This location was not ever produced and there was no other equipment on the location.

The initial sample indicated high pH. Additional samples will be taken in the four cardinal directions to begin to delineate extent.

#### **Proposed Groundwater Sampling**

☐ Will groundwater samples be collected as part of this investigation? ( Number, analyses, and locations of samples ):

#### **Proposed Surface Water Sampling**

☐ Will surface water samples be collected as part of this investigation? ( Number, analyses, and locations of samples ):

### **Additional Investigative Actions**

☐ Additional alternative investigative actions described in attached Site Investigation Plan ( summary ):

## SITE INVESTIGATION REPORT

### SAMPLE SUMMARY

#### Soil

Number of soil samples collected 1

Number of soil samples exceeding 915-1 1

Was the areal and vertical extent of soil contamination delineated? No

Approximate areal extent (square feet) 0

#### NA / ND

           Highest concentration of TPH (mg/kg)           

           Highest concentration of SAR           

BTEX > 915-1 No

Vertical Extent > 915-1 (in feet) 5

#### Groundwater

Number of groundwater samples collected 0

Was extent of groundwater contaminated delineated? No

Depth to groundwater (below ground surface, in feet)           

Number of groundwater monitoring wells installed           

Number of groundwater samples exceeding 915-1           

           Highest concentration of Benzene (µg/l)           

           Highest concentration of Toluene (µg/l)           

           Highest concentration of Ethylbenzene (µg/l)           

           Highest concentration of Xylene (µg/l)           

           Highest concentration of Methane (mg/l)           

#### Surface Water

0 Number of surface water samples collected

           Number of surface water samples exceeding 915-1

If surface water is impacted, other agency notification may be required.

### OTHER INVESTIGATION INFORMATION

☐ Were impacts to adjacent property or offsite impacts identified?

☒ Were background samples collected as part of this site investigation?

Three background samples were initially taken but not tested for Hexavalent Chromium. Three additional background samples were taken as indicated in the attachment. Background samples show higher SAR and EC than the wellhead.

☐ Was investigation derived waste (IDW) generated as part of this investigation?

Volume of solid waste (cubic yards)           

Volume of liquid waste (barrels)           

☐ Is further site investigation required?

## REMEDIAL ACTION PLAN

Does this Supplemental Form 27A include changes to a previously approved Remedial Action Plan? No

### SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

TBD

### REMEDIAL ACTION SUMMARY

Describe how remediation of existing impacts to soil and groundwater is to be accomplished (i.e. summarize remedial action plan). Provide a brief narrative description including: technical justification, schedule for implementation, estimated time to attain NFA status, plus plans and specifications for the selected remedial action technology.

Additional samples will be taken at 5.5' at the wellhead and in the 4 cardinal directions within 3' of the wellhead to start the delineation of the exceedance for pH. Requesting consideration of Table 915-1 footnote 9 for Cr(VI), using the MDL of 0.255, which is below threshold. Exceedances for EC and SAR are below the background sample levels.

### Soil Remediation Summary

☐ In Situ

\_\_\_\_\_ Bioremediation ( or enhanced bioremediation )  
\_\_\_\_\_ Chemical oxidation  
\_\_\_\_\_ Air sparge / Soil vapor extraction  
\_\_\_\_\_ Natural Attenuation  
\_\_\_\_\_ Other \_\_\_\_\_

☐ Ex Situ

\_\_\_\_\_ Excavate and offsite disposal  
\_\_\_\_\_ If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_  
\_\_\_\_\_ Name of Licensed Disposal Facility or COGCC Facility ID # \_\_\_\_\_  
\_\_\_\_\_ Excavate and onsite remediation  
\_\_\_\_\_ Land Treatment  
\_\_\_\_\_ Bioremediation (or enhanced bioremediation)  
\_\_\_\_\_ Chemical oxidation  
\_\_\_\_\_ Other \_\_\_\_\_

### **Groundwater Remediation Summary**

\_\_\_\_\_ Bioremediation ( or enhanced bioremediation )  
\_\_\_\_\_ Chemical oxidation  
\_\_\_\_\_ Air sparge / Soil vapor extraction  
\_\_\_\_\_ Natural Attenuation  
\_\_\_\_\_ Other \_\_\_\_\_

### **GROUNDWATER MONITORING**

If groundwater has been impacted, describe proposed monitoring plan, including # of wells or sample points, monitoring schedule, analytical methods, points of compliance. Attach a groundwater monitoring location diagram.

## REMEDIATION PROGRESS UPDATE

### PERIODIC REPORTING

#### Approved Reporting Schedule:

☐ Quarterly☐ Semi-Annually☐ Annually☐ Other

#### ☐ Request Alternative Reporting Schedule:

☐ Semi-Annually☐ Annually☐ Other

Rule 913.e:

After initial approval of a Form 27, the Operator will provide quarterly update reports in a Supplemental Form 27 to document progress of site investigation and remediation, unless an alternative reporting schedule has been requested by the Operator and approved by the Director. The Director may request a more frequent reporting schedule based on site-specific conditions.

#### Report Type:

☐ Groundwater Monitoring☐ Land Treatment Progress Report☐ O&M Report☐ Other

### Adequacy of Operator's General Liability Insurance and Financial Assurance

Describe the adequacy of the Operator's general liability insurance and Financial Assurance to fully address the anticipated costs of Remediation, including the estimated remaining cost for this project (below).

If this information has been provided on a Form 27 within the last 12 months, provide the Document Number of that form.

Vision Energy LLC has adequate general liability and financial assurance to full address the anticipated reclamation costs - Anticipated costs will be better understood after samples are taken and analyzed.

Operator anticipates the remaining cost for this project to be: \$

### WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation?

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

Volume of E&P Waste (solid) in cubic yards

E&P waste (solid) description

COGCC Disposal Facility ID #, if applicable:

Non-COGCC Disposal Facility:

Volume of E&P Waste (liquid) in barrels

E&P waste (liquid) description

COGCC Disposal Facility ID #, if applicable:

Non-COGCC Disposal Facility:

## REMEDIATION COMPLETION REPORT

### REMEDIATION COMPLETION SUMMARY

Is this a Final Closure Request for this Remediation Project? No

If YES:

☐ Compliant with Rule 913.h.(1).☐ Compliant with Rule 913.h.(2).☐ Compliant with Rule 913.h.(3).

Do all soils meet Table 915-1 standards?

Does the previous reply indicate consideration of background concentrations?

Does Groundwater meet Table 915-1 standards?

Is additional groundwater monitoring to be conducted? \_\_\_\_\_

Operator shall comply with the COGCC 1000-Series Reclamation Requirements for all impacted and disturbed areas.

## RECLAMATION PLAN

### RECLAMATION PLANNING

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.

Seeding will be done to the BLM standards.

Is the described reclamation complete? No

Does the reclamation described herein constitute interim or final reclamation of the Oil and Gas Location?

☐ Interim

☐ Final

Did the Surface Owner provide the seed mix? No

If YES, does the seed mix comply with local soil conservation district recommendations? \_\_\_\_\_

Did the local soil conservation district provide the seed mix? No

### SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. \_\_\_\_\_

Proposed date of completion of Reclamation. \_\_\_\_\_

## IMPLEMENTATION SCHEDULE

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

### PRIOR DATES

Date of Surface Owner notification/consultation, if required. \_\_\_\_\_

Actual Spill or Release date, or date of discovery. \_\_\_\_\_

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 08/31/2022

Proposed site investigation commencement. 08/31/2022

Proposed completion of site investigation. \_\_\_\_\_

### REMEDIAL ACTION DATES

Proposed start date of Remediation. 05/01/2023

Proposed date of completion of Remediation. 05/31/2023

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

☐ Change from approved implementation schedule per Rule 913.d.(2).

Basis for change in implementation schedule:

**OPERATOR COMMENT**

Forward to Steven Arauza.

EC and SAR levels are higher in 2 background samples than wellhead sample.

Requesting consideration of Table 915-1 footnote 9 for Cr(VI), using the MDL of 0.255, which is below threshold.

Additional samples to be taken in the four cardinal directions to delineate pH contamination.

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

Signed: trish harrison

Title: permitting

Submit Date: 07/24/2023

Email: trishharrison@eis-llc.com

Based on the information provided herein, this Application for Site Investigation and Remediation Workplan complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Steven Arauza

Date: 08/25/2023

Remediation Project Number: 24628

**COA Type****Description**

|       |                                                                                                                    |
|-------|--------------------------------------------------------------------------------------------------------------------|
|       | Under Remediation Summary, Operator commits to additional sampling at the wellhead to delineate extent of impacts. |
|       | Operator will analyze delineation samples for EC, pH, SAR, and hexavalent chromium.                                |
| 1 COA |                                                                                                                    |

**Attachment Check List**

Upon approval, the approved Form 27 and all listed attachments will be indexed to the Remediation Project file. Only the approved Form 27 will also be indexed to the related Facilities.

**Att Doc Num****Name**

|           |                                                   |
|-----------|---------------------------------------------------|
| 403239186 | INVESTIGATION/REMEDIATION WORKPLAN (SUPPLEMENTAL) |
| 403239225 | ANALYTICAL RESULTS                                |
| 403257560 | ANALYTICAL RESULTS                                |
| 403257562 | ANALYTICAL RESULTS                                |
| 403268138 | SOIL SAMPLE LOCATION MAP                          |
| 403509753 | FORM 27-SUPPLEMENTAL-SUBMITTED                    |

Total Attach: 6 Files

**General Comments****User Group****Comment****Comment Date**

|  |  |                     |
|--|--|---------------------|
|  |  | Stamp Upon Approval |
|--|--|---------------------|

Total: 0 comment(s)