

State of Colorado Oil and Gas Conservation Commission

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403291848

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Report taken by:

John Heil

Site Investigation and Remediation Workplan (Initial 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: TEP ROCKY MOUNTAIN LLC	Operator No: 96850	Phone Numbers Phone: (970) 263-2760 Mobile: (970) 623-4875
Address: 1058 COUNTY ROAD 215		
City: PARACHUTE	State: CO Zip: 81635	
Contact Person: Michael Gardner	Email: mgardner@terraep.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 27821 Initial Form 27 Document #: 403291848

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

No Multiple Facilities

Facility Type: WELL	Facility ID: _____	API #: 045-06612	County Name: GARFIELD
Facility Name: CLOUGH W-86-29		Latitude: 39.499429	Longitude: -107.907997
		** correct Lat/Long if needed: Latitude: _____	Longitude: _____
QtrQtr: SWNE	Sec: 29	Twp: 6S	Range: 94W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications OH Most Sensitive Adjacent Land Use Grazing, open range

Is domestic water well within 1/4 mile? No Is surface water within 1/4 mile? Yes

Is groundwater less than 20 feet below ground surface? No

Other Potential Receptors within 1/4 mile

Williams Energy - Rulison Compressor station co-located at same location as the Clough W-86-29 well location (see attached photos). No residential structures or agricultural buildings are located within 1/4 mile of Clough W-86-29 well location.

SITE INVESTIGATION PLAN

TYPE OF WASTE:

☒ E&P Waste ☐ Other E&P Waste ☐ Non-E&P Waste

☐ Produced Water

☐ Workover Fluids

☐ Oil

☐ Tank Bottoms

☐ Condensate

☐ Pigging Waste

☒ Drilling Fluids

☐ Rig Wash

☐ Drill Cuttings

☐ Spent Filters

☐ Pit Bottoms

☐ Other (as described by EPA)

DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
UNDETERMINED	SOILS	No impacts known / none anticipated	Routine planned P&A of natural gas well

INITIAL ACTION SUMMARY

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

The proposed plugging and abandonment of the Clough W-86-29 well (API #05-045-06612-00) is not part of any emergency action. This is a routine, planned P&A operation. The Clough W-86-29 well will be plugged and abandoned per the procedures and specifications outlined in the attached Proposed Plugging Procedure (doc#403301038) and Form 6 (doc #403300839). There are no soil, groundwater, or surface water impacts that are known to be associated with the operation of the Clough W-86-29 well. Discrete soil samples will be collected from areas that would be most likely associated with the operation of the Clough W-86-29 well. The samples collected will fulfill the sampling requirements of Rule 913.b.(2), and also for closure of this facility as required by Rule 913.h.(1).A. The Clough W-86-29 well is physically located inside a secured equipment yard for the Williams Energy Rulison Compressor Station (see attached photos). There are no separators or liquid storage tanks associated with the Clough W-86-29 well.

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):

The proposed plugging and abandonment of the Clough W-86-29 well (API #05-045-06612-00) is not part of any emergency action. This is a routine, planned P&A operation. The Clough W-86-29 well will be plugged and abandoned per the procedures and specifications outlined in the attached Proposed Plugging Procedure (doc#403301038) and Form 6 (doc #403300839). There are no soil, groundwater, or surface water impacts that are known to be associated with the operation of this well. Discrete soil samples will be collected from areas that would be most likely associated with the operation of the Clough W-86-29 well. The samples collected will fulfill the sampling requirements of Rule 913.b.(2), and also for closure of this facility as required by Rule 913.h.(1).A. Samples will be collected from the well bore area and any related pipelines.

Proposed Groundwater Sampling

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

Groundwater samples are not planned to be collected. Groundwater contamination is not known to exist, nor expected at this time. If groundwater contamination occurs or is encountered during P&A operations, COGCC staff will be notified / consulted, and appropriate samples will be collected and submitted to determine compliance with COGCC 915-1 cleanup standards.

Proposed Surface Water Sampling

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

Surface water samples are not planned to be collected. Surface water contamination is not known to exist, nor expected at this time. If surface water contamination occurs or is encountered during P&A operations, COGCC staff will be notified / consulted, and appropriate samples will be collected and submitted to determine compliance with COGCC 915-1 cleanup standards.

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 2
Number of soil samples exceeding 915-1 0
Was the areal and vertical extent of soil contamination delineated?
Approximate areal extent (square feet) 0

NA / ND

 Highest concentration of TPH (mg/kg)
 Highest concentration of SAR
 BTEX > 915-1
 Vertical Extent > 915-1 (in feet) 0

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?

A background soil sample will be collected from an undisturbed area located approximately 0.25 miles west of the Clough W-86-29 well location.

☐ 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

SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

The Clough W-86-29 well is to be plugged and abandoned per the details and procedures described in the attached Proposed Plugging Procedure (doc#403301038) and Form 6 (doc #403300839). Any contaminated soils encountered during abandonment activities will be excavated using the appropriate type of equipment deemed appropriate for site conditions (i.e., hydro-vac truck, mini-excavator, etc.). All underground utilities, pipeline, and infrastructure will be located and identified prior to initiating P&A activities.

REMEDATION 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.

This is a routine P&A operation being performed for a single well. No impacts to soil, groundwater, or surface water resources are known or anticipated. However, should any contamination (related to the oil and gas operations associated with this specific well location) be encountered while performing P&A activities, the impacted media will be immediately assessed for compliance with COGCC Table 915-1 cleanup standards. Any waste materials found to exceed these cleanup standards will be managed per COGCC Rule 905, Management of E&P Waste.

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.

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:

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.

The Clough W-86-29 well will be abandoned per the proposed plugging procedure described / outline in the attached Proposed Plugging Procedure (doc#403301038) and Form 6 (doc #403300839). The Clough W-86-29 well is physically located inside a secured equipment yard associated with the Williams Energy Rulison Compressor Station (see attached photos). There are no separators or liquid storage tanks associated with the Clough W-86-29 well. The well cellar will be backfilled with clean fill and covered with gravel / road base materials to match the surrounding surface of the equipment yard. Final reclamation of the entire disturbed area will not occur until the gas compressor station is de-commissioned and the area is reclaimed by Williams Energy at some point in the future.

Is the described reclamation complete? _____

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? _____

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

Did the local soil conservation district provide the seed mix? _____

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. 10/03/2022

Actual Spill or Release date, or date of discovery. _____

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 03/06/2023

Proposed site investigation commencement. 03/08/2023

Proposed completion of site investigation. 03/10/2023

REMEDIAL ACTION DATES

Proposed start date of Remediation. _____

Proposed date of completion of Remediation. _____

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

Per Rule 913.c.(9), TEP is providing notification and requesting approval to proceed with the routine P&A activities planned for the Clough W-86-29 well as described herein. The P&A activities will be performed according to the details and procedures in the approved Form 6 (doc #403300839) - see attached. This is a routine P&A operation being performed for a single well. No impacts to soil, groundwater, or surface water are anticipated. In compliance with Rule 915.e.(2).B, discrete soil samples will be collected from areas most likely impacted from the Clough W-86-29 well. (i.e., from around the well bore casing and any associated flowlines / piping). There are no separators or fluid storage tanks associated with the Clough W-86-29 well. These samples will fulfill the sampling requirements of Rule 913.b.(2), and also for closure of this facility as required by Rule 913.h.

Sampling and analysis of impacted soils and groundwater (if encountered) will be conducted to determine the horizontal and vertical extent of any contamination that exceeds cleanup concentrations found in COGCC Table 915-1, or in WQCC Regulation 41 numeric and narrative groundwater quality standards and classifications.

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

Signed: Michael Gardner

Title: TEP Environmental Lead

Submit Date: 02/07/2023

Email: mgardner@terraep.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: John Heil

Date: 02/27/2023

Remediation Project Number: 27821

COA Type**Description**

	Operator shall comply with Rule 913.b.(2) and conduct sampling and analysis of soil and Groundwater (if encountered or a pathway to groundwater is determined) pursuant to Rule 915 to determine the horizontal and vertical extent of any contamination in excess of the cleanup concentrations in Table 915-1 or in WQCC Regulation 41 numeric and narrative Groundwater quality standards and classifications, as incorporated by reference in Rule 901.b.
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**

403291848	FORM 27-INITIAL-SUBMITTED
403292277	PHOTO DOCUMENTATION
403292278	PHOTO DOCUMENTATION
403306504	OTHER
403306506	OTHER
403306507	OTHER
403314813	OTHER
403314884	SOIL SAMPLE LOCATION MAP

Total Attach: 8 Files

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

		Stamp Upon Approval
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Total: 0 comment(s)