

State of Colorado  
Oil and Gas Conservation Commission

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Document Number:  
402806511  
Receive Date:  
09/28/2021  
Report taken by:  
ALEX FISCHER

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: CHEVRON USA INC	Operator No: 16700	Phone Numbers Phone: (970) 560-5998 Mobile: (970) 560-5998
Address: 100 CHEVRON ROAD		
City: RANGELY	State: CO	Zip: 81648
Contact Person: Doug Sparks	Email: DVVZ@chevron.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 20334 Initial Form 27 Document #: 402806511

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 #: 103-05843	County Name: RIO BLANCO
Facility Name: WILSON CREEK UNIT 31	Latitude: 40.172194	Longitude: -107.905431	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNE	Sec: 2	Twp: 2N	Range: 94W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications GC Most Sensitive Adjacent Land Use Forest  
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**

Location is located within a High Priority Habitat Area.

**SITE INVESTIGATION PLAN**

**TYPE OF WASTE:**

- E&P Waste
  - Produced Water
  - Oil
  - Condensate
  - Drilling Fluids
  - Drill Cuttings
  - Other E&P Waste
  - Workover Fluids
  - Tank Bottoms
  - Pigging Waste
  - Rig Wash
  - Spent Filters
  - Pit Bottoms
  - Other (as described by EPA)
  - Non-E&P Waste
- No wastes currently known on location.

**DESCRIPTION OF IMPACT**

Impacted?	Impacted Media	Extent of Impact	How Determined
Yes	VEGETATION	Well site was cleared and graded.	Satellite imagery

**INITIAL ACTION SUMMARY**

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

Well plug and abandonment to begin on 9/15/21. Site reclamation to follow.

**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 ):

Discrete soil samples shall be collected from the wellhead location, and any impacts at depth will be documented and remediated. Additionally, discrete soil samples shall be collected per Rule 915.e.(2).B, such as where the on-location flow line will be abandoned and beneath any associated equipment on location. The number and location of samples will be appropriate to determine the horizontal and vertical extent of the impact. Collected soil samples will be analyzed for Table 915-1 Cleanup Concentrations using the Protection of Groundwater Screening Level Concentrations.

**Proposed Groundwater Sampling**

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

If groundwater is encountered during any excavation, a minimum of one groundwater sample shall be collected per Rule 913.c.(6) for those constituents listed in Table 915-1.

**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

NA / ND

Number of soil samples collected 0

Number of soil samples exceeding 915-1 \_\_\_\_\_

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

Approximate areal extent (square feet) \_\_\_\_\_

-- Highest concentration of TPH (mg/kg) \_\_\_\_\_

-- Highest concentration of SAR \_\_\_\_\_

BTEX > 915-1 No

Vertical Extent > 915-1 (in feet) \_\_\_\_\_

**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?

Operator shall collect sample(s) from comparable, nearby non-impacted native soil for purposes of establishing background soil conditions.

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.

If any impacts are identified during the well P&A and closure of associated facilities, the contaminated soil will be excavated and hauled to an authorized disposal facility.

**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.

If any impacts are identified during the well P&A and closure of the associated facilities, the contaminated soil will be excavated and hauled to an authorized disposal facility. If groundwater is encountered during any excavation, a minimum of one groundwater sample shall be collected per Rule 913.c.(6) for those constituents listed in Table 915-1. Pursuant to Rule 913.h.(1).A, demonstration of compliance with Table 915-1 cleanup concentration is required for closure of this remediation project.

**Soil Remediation Summary**

In Situ

Ex Situ

\_\_\_\_\_ Bioremediation ( or enhanced bioremediation )

\_\_\_\_\_ Excavate and offsite disposal

\_\_\_\_\_ Chemical oxidation

If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_

\_\_\_\_\_ Air sparge / Soil vapor extraction

Name of Licensed Disposal Facility or COGCC Facility ID # \_\_\_\_\_

\_\_\_\_\_ Natural Attenuation  
\_\_\_\_\_ Other \_\_\_\_\_

\_\_\_\_\_ Excavate and onsite remediation  
\_\_\_\_\_ Land Treatment  
\_\_\_\_\_ Bioremediation (or enhanced bioremediation)  
\_\_\_\_\_ Chemical oxidation  
\_\_\_\_\_ Other \_\_\_\_\_

### **Groundwater Remediation Summary**

No \_\_\_\_\_ Bioremediation ( or enhanced bioremediation )  
No \_\_\_\_\_ Chemical oxidation  
No \_\_\_\_\_ Air sparge / Soil vapor extraction  
No \_\_\_\_\_ Natural Attenuation  
No \_\_\_\_\_ 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.

N/A

## **REMEDIATION PROGRESS UPDATE**

### **PERIODIC REPORTING**

#### **Approved Reporting Schedule:**

Quarterly     Semi-Annually     Annually     Other

A supplemental Form 27 will be submitted within 45 days of the completion of the actions described.

#### **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 \_\_\_\_\_

### **WASTE DISPOSAL INFORMATION**

Was E&P waste generated as part of this remediation? No

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.

Site is to be reclaimed for final abandonment following well plug and abandonment. Flowlines from well will be removed from pad location. Wellhead will be cut and capped below grade. Location will be recontoured to natural grade and revegetated with approved seed mixture in appropriate seeding season. Road adjacent to pad will remain in place until the full field abandonment project progresses to a point that the road is not longer in use. Road determinations to be made with BLM and relevant surface owners.

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? \_\_\_\_\_

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. 10/11/2021

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. 07/29/2021

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

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 09/15/2021

Proposed site investigation commencement. \_\_\_\_\_

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

### 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**

Forms 42 and 44 for WC 31 are in progress.  
 Central Tank Battery Facility ID: 449641 (off-Location remote tank battery)

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

Signed: Rachel Puechner

Title: Decommissioning Advisor

Submit Date: 09/28/2021

Email: RPuechner@chevron.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: ALEX FISCHER

Date: 10/07/2021

Remediation Project Number: 20334

**Condition of Approval****COA Type****Description**

	Form 44 not found in well file for offline flowline abandonment. Comply with COGCC Rule 1105 flowline abandonment requirements, including notification and verification requirements. Under "Submit" tab, Operator states "Forms 42 and 44 for WC 27 are in progress."
	If groundwater is encountered during any excavation, a minimum of one surface/groundwater sample shall be collected per Rule 913.c.(6) for those constituents listed in Table 915-1.
	Operator shall collect sample(s) from comparable, nearby non-impacted native soil for purposes of establishing background soil conditions including pH, electrical conductivity (EC) and sodium adsorption ratio (SAR), per Rule 915.e.(2).D.
	A supplemental Form 27 will be submitted within 45 days of the completion of the actions described in this submission.
	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.
	Discrete soil samples shall be collected and analyzed for Table 915-1 Cleanup Concentrations using the Protection of Groundwater Screening Level Concentrations
	Pursuant to Rule 913.h.(1).A, demonstration of compliance with Table 915-1 cleanup concentration is required for closure of this remediation project.
	Upon discovery of flowline release during the PA and removal, the operator must investigate the extent of release and provide form 19 and a supplemental form 27 with proposed investigation sample sites for COGCC staff approval.
	Form 42 not found in well file for two (2) online flowline abandonments. Comply with COGCC Rule 1105 flowline abandonment requirements, including notification and verification requirements. Under "Submit" tab, Operator states "Forms 42 and 44 for WC 27 are in progress." It is stated "Flowlines from well will be removed from pad location. Operator shall collect soil samples from each of the flowlines and comply with Rule 913.b.(2) and (3). Per Rule 913.b.(2), the Operator will conduct sampling and analysis of soil, and groundwater--if encountered, to determine the horizontal and vertical extent of any contamination in excess of the cleanup concentrations in Table 915-1 for soil and groundwater. The Operator shall analyze samples for the complete Table 915-1 list and shall delineate the extent of impacts using the Table 915-1 Protection of Groundwater Soil Screening Level Concentrations. Operator shall follow Rule 915.e.(2). A through D. sampling and analysis guidance

	Comply with COA Doc #402766281, "4) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once on location abandonment complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator shall submit a Flowline Report, Form 44."  NOTE: A FORM 27 IS REQUIRED FOR FLOW LINE ABANDONMENT.
	Sundry Doc #662360 is a report of a casing leak. Via a Supplemental F27, Operator shall provide details about the casing leak and demonstrate that subsurface impacts as a result of the suspected casing leak are compliant to Table 915-1 Clean-Up Concentrations.
11 COAs	

### 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.

<u>Att Doc Num</u>	<u>Name</u>
402806511	FORM 27-INITIAL-SUBMITTED
402825025	SOIL SAMPLE LOCATION MAP

Total Attach: 2 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Environmental	Inspection Doc#675102983 under Ancillary equipment states, Chem tote w/secondary containment. Inspection Doc# 679706002 under Ancillary equipment states Container of RE9306WCW with secondary containment. Inspection Doc # 700402558 under Ancillary equipment states, Chemical container.	10/07/2021
Environmental	Under Site Investigation tab, it is stated, "Well plug and abandonment to begin on 9/15/21." Initial F27 pushed to Draft on 9/21/2021, resubmitted on 9/28/2021.	10/05/2021
Environmental	Location is: FED/FED BH Pressure 0 psi, Aug 15, 2021 Doc #402763991 is Letter of Intent to SI Field. Flow line: 4" multiphase carbon steel, 13,392.3 feet in length Soil: Jerry-Thornberg-Rhone Complex; Map Unit Symbol 45	10/05/2021

Total: 3 comment(s)