

State of Colorado
Energy & Carbon Management Commission

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Document Number:
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Receive Date:

Report taken by:

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 ECMC 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: NOBLE ENERGY INC | Operator No: 100322 | Phone Numbers |
| Address: 1099 18TH STREET SUITE 1500 | | Phone: (970) 304-5000 |
| City: DENVER State: CO Zip: 80202 | | Mobile: () |
| Contact Person: Dan Peterson | Email: RBUEUF27@chevron.com | |

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 22672 Initial Form 27 Document #: 403000604

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: WELL | Facility ID: _____ | API #: 123-29848 | County Name: WELD |
| Facility Name: JOHNSON G 13-27D | Latitude: 40.322233 | Longitude: -104.607346 | |
| ** correct Lat/Long if needed: Latitude: _____ | | Longitude: _____ | |
| QtrQtr: SWSE | Sec: 12 | Twp: 4N | Range: 65W Meridian: 6 Sensitive Area? Yes |
| Facility Type: SPILL OR RELEASE | Facility ID: 492160 | API #: _____ | County Name: WELD |
| Facility Name: Johnson G 13-27D | Latitude: 40.320480 | Longitude: -104.611830 | |
| ** correct Lat/Long if needed: Latitude: _____ | | Longitude: _____ | |
| QtrQtr: SESW | Sec: 12 | Twp: 4N | Range: 65W Meridian: 6 Sensitive Area? Yes |

SITE CONDITIONS

General soil type - USCS Classifications SW

Most Sensitive Adjacent Land Use Prairie Land

Is domestic water well within 1/4 mile? Yes

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

DWR Well Permit 336572- is 0.02 miles south and residential structures are present 0.16 miles south and 0.25 miles southeast of the 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 | GROUNDWATER | NA | Field-Screening and Laboratory Analysis, if Encountered |
| Yes | SOILS | Refer to Tables and Figures | Field-Screening and Laboratory Analysis |

INITIAL ACTION SUMMARY

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

Pursuant to ECOM Rule 911, site investigations were completed for the JOHNSON G #13-27D wellhead cut and cap and flowline abandonment. On May 5, 2022, two soil samples were collected, one at the base of the wellhead excavation and one at the flowline terminus at the separator. Samples were submitted for laboratory analysis of Table 915-1 organics and SSR constituents; results reported a single pH exceedance. These samples have been included in Chevron's data integrity review and material from these sample locations will be characterized and valid data will be collected in accordance with the approved Form 27 investigation plan. As these samples were deemed to be invalid, they will not be used for site compliance and will not be included in subsequent reporting. Results were reported in Document 403723541.

On October 12, 2022, 1,545 feet of flowline was abandoned and the ECOM was notified on Form 44 Document 403266565. On January 6, 2025, a site investigation near the former wellhead was completed. Twelve samples were collected from four soil borings in the wellhead investigation area. All samples were submitted for full Table 915-1 analysis and results reported exceedances of pH, arsenic, barium, hexavalent chromium, and selenium. See Document 404153703 for details.

On July 25, 2025, additional characterization sampling was completed. Eighteen soil samples were collected from nine soil borings: five borings were advanced in the wellhead investigation area with samples collected at 2, 4, and 6 feet bgs, and four borings were advanced along the abandoned flowline at directional changes with samples collected at 4 feet bgs. All samples were submitted for full Table 915-1 analysis. Laboratory results reported exceedances of naphthalene, 1-methylnaphthalene, 2-methylnaphthalene, pH, arsenic, barium chromium and selenium. See the attached laboratory results for details.

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):

Additional soil samples will be collected to characterize material at the flowline end points, delineate organic exceedances at FL-02-W-SO-4, FL-05-SO-4, and FL-02-S-SO-6, and delineate the barium exceedance at FL-02-S-SO-6. Samples will be submitted for full Table 915-1 analysis. Additional background samples will be collected to further establish the natural range of values for inorganic constituents in the project area. If background sampling efforts fail to demonstrate that inorganic constituent values in the investigation area are within the natural range of values, further delineation may be completed at the former wellhead and flowline to address elevated pH and metals. See the attached diagram for proposed sample locations.

Proposed Groundwater Sampling

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

No groundwater has been encountered during site investigation activities. If groundwater is encountered, a grab groundwater sample will be collected and submitted for full Table 915-1 analysis.

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):

Field personnel will field-screen all disturbance areas using visual and olfactory senses to determine if laboratory analysis is required.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 18
Number of soil samples exceeding 915-1 16
Was the areal and vertical extent of soil contamination delineated? No
Approximate areal extent (square feet) 1600

NA / ND

ND Highest concentration of TPH (mg/kg) _____
-- Highest concentration of SAR 4.97
BTEX > 915-1 No
Vertical Extent > 915-1 (in feet) 6

Groundwater

Number of groundwater samples collected 0
Was extent of groundwater contaminated delineated? Yes
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?

On May 5, 2022, one background sample was collected and analyzed for pH; this sample was included in Chevron's data integrity review and is not considered representative of natural soil conditions and will be excluded from site compliance and future reporting. Results were reported in Document 403723541. On January 6 and July 25, 2025, six background soil samples were collected at 4 feet bgs and analyzed for all Table 915-1 inorganic constituents; samples BG-05 and BG-06 were discovered to have been collected within historic oil and gas disturbance areas and will be excluded from site compliance evaluations and future reporting. The maximum recorded background concentration for pH and SAR are 8.43 and 10.3, respectively. The maximum calculated background concentrations, with a 1.25x multiplier applied for the following metals are: 3.79 mg/kg (arsenic), 90.5 mg/kg (barium), and 0.200 mg/kg (selenium). See Document 404153703 and the attached laboratory results and tables for details.

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?

Additional soil samples will be collected to complete characterization of material at the wellhead, delineate organic exceedances at FL-02-W-SO-4, FL-05-SO-4, and FL-02-S-SO-6, and delineate the barium exceedance at FL-02-S-SO-6. Samples will be submitted for full Table 915-1 analysis. Additional background samples will be collected to further establish the natural range of values for inorganic constituents in the project area. If background sampling efforts fail to demonstrate that inorganic constituent values in the investigation area are within the natural range of values, further delineation may be completed at the former wellhead and flowline to address elevated pH and metals. See the attached diagram for proposed sample locations.

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.

No soil exceedances from oil and gas operations, which necessitate removal, have been identified. Should excavation be needed to comply with allowable limits at any point during the site investigation, a removal summary will be provided.

REMEDIATION 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.

Site investigation and delineation efforts are still underway for this project. When investigation efforts have concluded, if remediation is deemed to be necessary, a remedial approach will be proposed, and subsequent efforts and results will be reported here.

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 ECMC 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.

Groundwater was not encountered during decommissioning efforts or subsequent site investigation activities.

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 Quarterly Update, SSI Report, and SSIP

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.

Noble intends to directly address the costs of remediation at the locations as part of the asset retirement obligation process and operations. Noble has general liability insurance (policies MWZZ316714 and MWZX316724) and financial assurance in compliance with ECMC rules. Records are available on the ECMC's website. The cost for remediation is an estimate only, costs may change upwards or downward based on site-specific information. Noble makes no representation or guarantees as to the accuracy of the estimate.

Operator anticipates the remaining cost for this project to be: \$ 50000

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 _____

ECMC Disposal Facility ID #, if applicable: _____

Non-ECMC Disposal Facility: _____

Volume of E&P Waste (liquid) in barrels _____

E&P waste (liquid) description _____

ECMC Disposal Facility ID #, if applicable: _____

Non-ECMC 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? No

Does the previous reply indicate consideration of background concentrations? _____

Does Groundwater meet Table 915-1 standards? Yes

Is additional groundwater monitoring to be conducted? _____

Operator shall comply with the ECMC 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.

Reclamation will be completed in accordance with ECMC 1000 Series Rules.

Is the described reclamation complete? Yes

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. 10/31/2026

Proposed date of completion of Reclamation. 10/31/2028

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. 02/03/2022

Actual Spill or Release date, or date of discovery. 08/25/2025

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 05/05/2022

Proposed site investigation commencement. 05/05/2022

Proposed completion of site investigation. 06/30/2025

REMEDIAL ACTION DATES

Proposed start date of Remediation. 06/30/2025

Proposed date of completion of Remediation. 12/30/2026

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:

The implementation schedule has been adjusted to reflect the status of site investigation efforts and anticipated dates for completion. Additional site investigation to complete wellhead and flowline characterization, delineate organic and inorganic exceedances and collect background samples is tentatively scheduled to be completed by the end of the second quarter of 2026, and results will be reported in a subsequent Form 27.

OPERATOR COMMENT

This form has been submitted to satisfy the quarterly reporting schedule for the JOHNSON G #13-27D (Remediation Project 22672), report results of the July 27, 2025 site investigation, and propose additional site investigation.

Pursuant to Rule 913.e., quarterly reporting will be conducted until closure criteria are achieved for the remediation project. The proposed supplemental site investigation is tentatively scheduled to be completed by the end of the second quarter of 2026 in accordance with the proposed implementation schedule and figure attached to this form submittal. Results will be submitted in a subsequent Form 27.

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

Signed: Vincent Sepe

Title: Project Manager

Submit Date: _____

Email: CVX-REMS@confluence-cc.com

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

ECMC Approved: _____

Date: _____

Remediation Project Number: 22672

COA Type

Description

| <u>COA Type</u> | <u>Description</u> |
|-----------------|--------------------|
| 0 COA | |

ATTACHMENT 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

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-------------|
| | |

Total Attach: 0 Files

General Comments

User Group

Comment

Comment Date

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|----------------|---------------------|
| | | Stamp Upon Approval |

Total: 0 comment(s)