

State of Colorado
Energy & Carbon Management Commission

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Document Number:
404569724

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 ECOM 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: Lauren Hoff | Email: RBUEUF27@chevron.com | |

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 26979 Initial Form 27 Document #: 403295020

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 #: 123-21121 | County Name: WELD |
| Facility Name: STATE C 36-4 | Latitude: 40.274490 | Longitude: -104.507040 | |
| ** correct Lat/Long if needed: Latitude: 40.274627 | | Longitude: -104.506781 | |
| QtrQtr: NWNW | Sec: 36 | Twp: 4N | Range: 64W Meridian: 6 Sensitive Area? No |
| Facility Type: SPILL OR RELEASE | Facility ID: 484346 | API #: _____ | County Name: WELD |
| Facility Name: State C 36-4 | Latitude: 40.274490 | Longitude: -104.507040 | |
| ** correct Lat/Long if needed: Latitude: _____ | | Longitude: _____ | |
| QtrQtr: NWNW | Sec: 36 | Twp: 4N | Range: 64W Meridian: 6 Sensitive Area? No |

Facility Type: SPILL OR RELEASE Facility ID: 491900 API #: County Name: WELD
Facility Name: STATE C #36-4 Latitude: 40.273602 Longitude: -104.505692
** correct Lat/Long if needed: Latitude: Longitude:
QtrQtr: NWNW Sec: 36 Twp: 4N Range: 64W Meridian: 6 Sensitive Area? No

Facility Type: SPILL OR RELEASE Facility ID: 491901 API #: County Name: WELD
Facility Name: STATE C #36-4 Latitude: 40.273263 Longitude: -104.505511
** correct Lat/Long if needed: Latitude: Longitude:
QtrQtr: NWNW Sec: 36 Twp: 4N Range: 64W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications SC Most Sensitive Adjacent Land Use Rangeland

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

NA

SITE INVESTIGATION PLAN

TYPE OF WASTE:

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> E&P Waste | <input type="checkbox"/> Other E&P Waste | <input type="checkbox"/> Non-E&P Waste |
| <input checked="" type="checkbox"/> Produced Water | <input type="checkbox"/> Workover Fluids | _____ |
| <input checked="" type="checkbox"/> Oil | <input type="checkbox"/> Tank Bottoms | |
| <input checked="" 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 | GROUNDWATER | NA | Field-Screening and Laboratory Analysis, if Encountered |
| Yes | SOILS | Refer to Table 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 ECMC Rule 911, site investigations were conducted pertaining to the STATE C #36-4 wellhead cut and cap and flowline removal. On April 6, 2023, initial wellhead characterization sampling was completed by a previous consultant following cut and cap operations. Five soil samples were collected: four from the excavation sidewalls (WH-SS-01 through WH-SS-04) and one from the base of the excavation (WH-FS-01). Laboratory results reported exceedances of 1,3,5-trimethylbenzene, 1-methylnaphthalene, pH, arsenic, and lead. Results were reported in Document 403735457. These samples have been included in Chevron's data integrity review, and material from these sample locations has been characterized, and valid data has been collected in accordance with the approved Form 27 investigation plan. As the samples from April 2023 were deemed to be invalid, they will not be used for site compliance and will not be included in subsequent reporting. However, since organic exceedances were documented, Form 19 Document 403378981 was submitted to open and subsequently close Spill/Release Point ID 484346 onto Remediation Project 26979.

Approximately 522 feet of flowline was removed, and approximately 135 feet of flowline was abandoned-in-place; the ECMC was notified via Form 44 Document 403552256. On May 5, 2023, initial flowline characterization was conducted by a previous consultant. Six field-screening samples were collected along the flowline. Of these, three were submitted for Table 915-1 organic and SSR constituent analysis: one from the flowline directional change (FL01-F), one from the wellhead connection (FL01-A), and one from the flowline connection to the separator (FL01-B). Laboratory results were compliant with applicable standards except for pH. See Document 403735457 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):

A supplemental site investigation (SSI) will be conducted to delineate naphthalene in the flowline investigation area, specifically at FL01-01 and FL01-02. Additional background samples will be collected to establish the range of values for naturally occurring inorganic constituents in the project area. If background sampling efforts fail to demonstrate that inorganic constituent values remaining at the Location are within the natural range of values in the project area, further delineation may be completed at evaluate elevated pH (WH01-B) and lead (WH01-E). See the Supplemental Site Investigation Plan (SSIP) associated with Document 404380376 (In Progress) for details.

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 analyzed for full 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):

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 10

Number of soil samples exceeding 915-1 4

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

Approximate areal extent (square feet) 400

NA / ND

ND Highest concentration of TPH (mg/kg) _____

-- Highest concentration of SAR 1.69

BTEX > 915-1 No

Vertical Extent > 915-1 (in feet) 7

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?

One background sample, collected on April 6, 2023, was included in Chevron's data integrity review and was discovered to have been collected in an area previously disturbed by oil and gas operations. As a result, this sample is not considered representative of natural soil conditions and will be excluded from site compliance evaluations and future reporting. Results were reported in Document 403735457.

On July 30, 2025, six background samples were collected and analyzed for Table 915-1 inorganics (SSR and metal constituents). The maximum background pH value is 7.06, and the maximum background concentration with a 1.25x multiplier applied for arsenic is calculated to be 2.13 mg/kg. See Document 404380376 (In Progress) 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?

An SSI will be completed to delineate naphthalene (FL01-01 and FL01-02) and to determine if elevated values of pH and lead detected in characterization samples WH01-B and WH01-E are within the natural range of values in the project area. Delineation samples will be submitted for full Table 915-1 analysis. Background samples will be collected from nearby, undisturbed areas and analyzed for all Table 915-1 inorganics. See Document 404380376 (In Process) for details.

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.

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.

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.

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

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 our 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? _____

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 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. 11/29/2022

Actual Spill or Release date, or date of discovery. 04/20/2023

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 04/06/2023

Proposed site investigation commencement. 04/06/2023

Proposed completion of site investigation. 04/02/2026

REMEDIAL ACTION DATES

Proposed start date of Remediation. 04/02/2026

Proposed date of completion of Remediation. 10/02/2026

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 delineate naphthalene exceedances identified during SSI activities and to further establish the range of values for naturally occurring inorganic constituents in the project area is tentatively scheduled to be completed by April 2, 2026; laboratory results will be provided in a subsequent Form 27.

OPERATOR COMMENT

This form has been submitted to satisfy the quarterly reporting requirement for the STATE C #36-4 (Remediation Project 26979). No work was completed during the first quarter of 2026 due to drill rig availability. Work has since been approved, and an SSI to delineate naphthalene exceedances in flowline samples FL01-01 and FL01-02, and to collect additional background samples, is tentatively scheduled to commence on April 2, 2026. See Document 404380376 (In Progress) for details.

On July 30, 2025, an SSI was conducted to collect valid data and characterize material at the former wellhead and flowline site investigation areas. Using hand tools, 10 samples were collected: five from locations of wellhead samples collected on April 6, 2023, three to the north, west, and south of the previous sample WH-SS-04 to confirm and delineate potential organic impacts, and two from the previous locations of the flowline directional change and connection to the separator samples collected on May 5, 2023. Laboratory results of wellhead samples reported exceedances of pH, arsenic, and lead. Laboratory results of flowline samples reported exceedances of naphthalene and arsenic. Additionally, six background samples were collected and submitted for Table 915-1 inorganics analysis. Laboratory results reported elevated values of arsenic. See Document 404380376 (In Process) for details.

On October 3, 2025, Form 19 Documents 404378971 and 404378889 were submitted following the detection of naphthalene above the applicable standard within samples FL01-01 and FL01-02. Spill/Release Point IDs 491901 and 491900 were assigned and subsequently closed onto Remediation Project 26979 on October 23, 2025.

Pursuant to Rule 913.e., quarterly reporting will be conducted until closure criteria are achieved for the remediation project. The SSI will be completed in accordance with the proposed implementation schedule by April 2, 2026, and the 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: Holly Tignac

Title: Project Scientist

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: 26979

COA Type

Description

| | |
|-------|--|
| 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

| | |
|-----------|-------|
| 404570281 | OTHER |
|-----------|-------|

Total Attach: 1 Files

General Comments

User Group

Comment

Comment Date

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

Total: 0 comment(s)