

State of Colorado
Energy & Carbon Management Commission

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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 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 #: 42501 Initial Form 27 Document #: 404305430

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: LOCATION	Facility ID: 467490	API #: _____	County Name: WELD
Facility Name: Wells Ranch USX AE21-14	Latitude: 40.468810	Longitude: -104.333007	
	** correct Lat/Long if needed: Latitude: 40.468808	Longitude: -104.333138	
QtrQtr: SESW	Sec: 21	Twps: 6N	Range: 62W Meridian: 6 Sensitive Area? Yes

SITE CONDITIONS

General soil type - USCS Classifications SP Most Sensitive Adjacent Land Use Grassland

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

Riverine 0.11mi SW

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	Lab Analysis and Field Screening, if encountered
Yes	SOILS	Refer to Tables and Figures	Lab Analysis and Field Screening

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, a site investigation was conducted during decommissioning activities at the Wells ranch USX T6N-R62W-S21 L01 (AKA Wells Ranch USX AE21-14) Tank Battery on 11/20/25. Confirmation soil samples were collected from the flowline (SEP01-FL) and dump line (SEP01-DL) risers of the former separator, beneath the above ground storage tanks (AST01, AST02), and from the base (PWV01-B) and northern sidewall (PWV01-N) of the partially-buried water vessel (PWV) excavation. Field screening samples were also collected at the alternate sidewalls of the PWV excavation (PWV01-E, S, W), at the meter house (MH01), emission control device (FLARE01), and from an additional structure identified for field screening (MISC01) on the Initial Form 27 proposed sampling figure (Doc # 404305443). The on-site dump lines located between the separator and the tank battery were removed by pulling from either end. Table 915-1 organic compounds were within regulatory standards in all decommissioning confirmation samples collected. Groundwater was not encountered during the site assessment.

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):

Sampling was conducted as described in the Initial Action Summary of this Form 27. Sampling deviated from the approved sampling plan in Initial Form 27 # 404305430 because the meter house (MH01) and additional infrastructure identified for field-screening (MISC01) were not present on site at the time of decommissioning. Screening samples were collected at the approximate infrastructure locations based on historical imagery.

Soil samples were analyzed by a certified laboratory for the full extent of Table 915-1, including but not limited to: TPH (total volatile [C6C10] and extractable [C10-C36] hydrocarbons), organic compounds in soil per ECMC Table 915-1, and EC, SAR, pH, and boron.

Proposed Groundwater Sampling

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

If groundwater is encountered during the site investigation a groundwater sample will be collected and analyzed for all organic compounds and inorganic parameters per ECMC 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):

Visual inspection at the tank battery area occurred during decommissioning activities. Personnel field screened all disturbed areas using visual and olfactory senses to determine if laboratory confirmation sampling was required. A detailed summary of decommissioning activities, including field notes, site photos, figures, and laboratory analytical results, is attached to this Form 27.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 6
Number of soil samples exceeding 915-1 2
Was the areal and vertical extent of soil contamination delineated? No
Approximate areal extent (square feet) 200

NA / ND

-- Highest concentration of TPH (mg/kg) 384
-- Highest concentration of SAR 1.41
BTEX > 915-1 No
Vertical Extent > 915-1 (in feet) 1

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 11/21/25, a total of 6 background samples were collected at depths ranging between 1 and 5 feet below ground surface at the adjacent Wells Ranch USX AE 21-12 flowline (REM # 42465, API # 05-123-26704) and analyzed for metals in soil per ECOM Table 915-1, pH, EC, SAR, and boron. The maximum background concentration for arsenic with a 1.25x multiplier applied was calculated to be 5.0 mg/kg. All arsenic concentrations observed during decommissioning were below 1.25x the maximum background level.

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?

Following the decommissioning, site concentrations of pH below regulatory standards remain in situ. Based on these results, a supplemental site investigation (SSI) will be completed.

A SSI will be completed to vertically and horizontally delineate the pH below Table 915-1 limits observed at AST01 and AST02 during decommissioning, and collect additional background samples. During the SSI, soil samples (SB01 - SB05) will be collected and analyzed for full Table 915-1 constituents. Background samples (BKG01 - BKG05) will be collected to determine if the pH values below regulatory standards is attributed to native soil conditions at the site. Background samples will be collected and analyzed for Table 915-1 metals, pH, EC, SAR, and boron.

The proposed soil boring locations are illustrated on the Site Investigation Plan attached to this report. The SSI will be completed in accordance with the proposed implementation schedule, and the results of the site investigation will be submitted on a subsequent Form 27.

REMEDIAL ACTION PLAN

Does this Supplemental Form 27A include changes to a previously approved Remedial Action Plan? Yes

SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

No impacted material caused by oil and gas operations was identified at this time.

REMEDICATION 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.

Following the decommissioning, site concentrations of pH below regulatory standards remain in situ. Based on these results, a supplemental site investigation (SSI) will be completed to vertically and horizontally delineate the pH below Table 915-1 limits observed at AST01 and AST02 during decommissioning, and collect additional background samples. During the SSI, soil samples (SB01 - SB05) will be collected and analyzed for full Table 915-1 constituents. Background samples (BKG01 - BKG05) will be collected to determine if pH is attributed to native soil conditions at the site. Background samples will be collected and analyzed for Table 915-1 metals, pH, EC, SAR, and boron. The proposed soil boring locations are illustrated on the Site Investigation Plan attached to this report. The SSI will be completed in accordance with the proposed implementation schedule, and the results of the site investigation will be submitted on a subsequent Form 27.

Soil Remediation Summary

In Situ

Ex Situ

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

- _____ 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 initial decommissioning 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 Decommissioning Sample Summary & Supplemental Site Investigation Proposal.

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 MWZZ 316714 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?

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?

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? 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 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. 11/20/2025

Proposed date of completion of Reclamation. 08/24/2027

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. 08/07/2025

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

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 11/20/2025

Proposed site investigation commencement. 02/18/2026

Proposed completion of site investigation. 08/24/2026

REMEDIAL ACTION DATES

Proposed start date of Remediation. 08/24/2026

Proposed date of completion of Remediation. 02/24/2027

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 changed due to the decommissioning of the Wells Ranch USX AE21-14 tank battery and necessity for supplemental site investigation activities adjacent to the tank battery. The proposed site investigation will be completed following the approval of this form and is tentatively scheduled for commencement in August, 2026. The ECMC will be notified regarding any updates to the implementation schedule in a subsequent Form 27.

OPERATOR COMMENT

This Form 27 is being submitted to include the decommissioning results of the Wells Ranch USX AE21-14 Tank Battery (REM # 42501) and propose supplemental site investigation (SSI) activities.

A site investigation was conducted during tank battery decommissioning activities that were completed on 11/20/25 as described within the Initial Action Summary of this Form 27. Inorganics (pH) was observed below ECMC Table 915-1 regulations at soil sample locations AST01 and AST02.

On 11/21/25, a total of 6 background samples were collected at depths ranging between 1 and 5 feet below ground surface at the adjacent Wells Ranch USX AE 21-12 flowline (REM # 42465, API # 05-123-26704) and analyzed for metals in soil per ECMC Table 915-1, pH, EC, SAR, and boron. The maximum background concentration for arsenic with a 1.25x multiplier applied was calculated to be 5.0 mg/kg. All arsenic concentrations observed during decommissioning were below 1.25x the maximum background level.

Following the decommissioning, site concentrations of pH below regulatory standards remain in situ. Based on these results, a supplemental site investigation (SSI) will be completed. A SSI will be completed to vertically and horizontally delineate the pH below Table 915-1 limits observed at AST01 and AST02 during decommissioning, and collect additional background samples. During the SSI, soil samples (SB01 - SB05) will be collected and analyzed for full Table 915-1 constituents. Background samples (BKG01 - BKG05) will be collected to determine if pH is attributed to native soil conditions at the site. Background samples will be collected and analyzed for Table 915-1 metals, pH, EC, SAR, and boron. The soil boring locations are illustrated in the proposed Site Investigation Plan attached to this report. The SSI will be completed in accordance with the proposed implementation schedule and is tentatively scheduled to commence in August 2026.

Pursuant to Rule 913,e, quarterly reporting will be conducted until closure criteria are achieved for the remediation project. The results of the site investigation will be submitted on 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: Elyse Hossink _____

Title: Environmental Consultant _____

Submit Date: _____

Email: tas-chevron-5@tasman-geo.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: 42501

COA Type

Description

0 COA	
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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

404547688	SITE INVESTIGATION REPORT
404547693	SITE INVESTIGATION PLAN
404547694	LABORATORY ANALYTICAL REPORT
404547696	LABORATORY ANALYTICAL REPORT
404547697	LABORATORY ANALYTICAL REPORT
404547698	LABORATORY ANALYTICAL REPORT

Total Attach: 6 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)