

State of Colorado
Energy & Carbon Management Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



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404433081
Receive Date:
02/04/2026

Report taken by:
Abdul Elnajdi

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: Dan Peterson	Email: RBUEUF27@chevron.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 42661 Initial Form 27 Document #: 404329172

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: LOCATION	Facility ID: 431553	API #: _____	County Name: WELD
Facility Name: Wells Ranch USX AE 31-99HZ Tank	Latitude: 40.446090	Longitude: -104.371180	
** correct Lat/Long if needed: Latitude: 40.446101		Longitude: -104.371197	
QtrQtr: SWNW	Sec: 31	Twp: 6N	Range: 62W Meridian: 6 Sensitive Area? Yes
Facility Type: SPILL OR RELEASE	Facility ID: 492606	API #: _____	County Name: WELD
Facility Name: Wells Ranch AE 31-99HZ PWV01	Latitude: 40.446002	Longitude: -104.371234	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWNW	Sec: 31	Twp: 6N	Range: 62W Meridian: 6 Sensitive Area? Yes

Facility Type: <u>SPILL OR RELEASE</u>	Facility ID: <u>492607</u>	API #: _____	County Name: <u>WELD</u>
Facility Name: <u>Wells Ranch USX AE 31-99HZ</u>	Latitude: <u>40.446168</u>	Longitude: <u>-104.371254</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>SWNW</u>	Sec: <u>31</u>	Twp: <u>6N</u>	Range: <u>62W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

Facility Type: <u>SPILL OR RELEASE</u>	Facility ID: <u>492608</u>	API #: _____	County Name: <u>WELD</u>
Facility Name: <u>Wells Ranch USX AE 31-99HZ</u>	Latitude: <u>40.445693</u>	Longitude: <u>-104.371183</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>SWNW</u>	Sec: <u>31</u>	Twp: <u>6N</u>	Range: <u>62W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

Facility Type: <u>SPILL OR RELEASE</u>	Facility ID: <u>492609</u>	API #: _____	County Name: <u>WELD</u>
Facility Name: <u>Wells Ranch AE 31-99HZ PWV02</u>	Latitude: <u>40.445812</u>	Longitude: <u>-104.371190</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>SWNW</u>	Sec: <u>31</u>	Twp: <u>6N</u>	Range: <u>62W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

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 0.16mi W

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 at the Wells Ranch USX AE 31-99HZ Tank Battery on 11/10/2025 through 11/12/2025.

Confirmation soil samples were collected from the flowline and dumpline risers of the former separators (SEP-FL, SEP-DL), beneath the above-ground storage tanks (AST01-AST07), and from the bases (PWV-B), and side walls (PWV-N, E, S, W) of the partially-buried water vessel excavation. Field screening samples were collected at the meter houses (MH), emission control devices (FLARE), and areas identified for field screening on the Initial Form 27 map (MISC). The on-site dump lines located between the separator and tank battery were removed by pulling from either end.

Elevated volatile organic compound (VOC) concentrations, hydrocarbon staining and odors were observed at sample locations AST07@0-0.5' and SEP03-DL@2.5' during the site investigation. As such, these locations were reported as potential historic releases under Form 19 Document Nos. 404431175, 404432786, and corresponding Spill IDs. 492608, 492607. On 11/11/2025, AST07@0-0.5' was removed via remedial excavation. Laboratory soil samples were collected from the sidewalls (SS01-SS04) and the base (FS01) of the excavation.

Upon receipt, lab results indicated concentrations of 1-methylnaphthalene (M) and 2-M exceeded Table 915-1 regulation at sample locations PWV01-S, W@2.5', and PWV02-B@4'. These releases were reported under Form 19 Document Nos. 404477758, 404480873, and corresponding Spill IDs. 492606, 492609.

Lab results indicated sample SEP03-DL@2.5' was compliant with all Table 915-1 organic constituents. However, concentrations of 1,2,4-trimethylbenzene (TMB), naphthalene, 1-M, and 2-M exceeded Table 915-1 standards at sample location SEP03-FL@2.5'. Additionally, lab results from AST07 excavation indicated concentrations of benzene, 1,2,4-TMB, 1,3,5-TMB, naphthalene, 1-M, and 2-M exceeded Table 915-1 regulation at sample locations FS01@3', SS01@1', and SS02@1'.

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, per the approved sampling plan in Initial Form 27, under Document No. 403558127. Soil samples were analyzed by a certified laboratory for the full extent of Table 915-1 using ECMC approved laboratory analysis methods, including but not limited to: TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons), organic compounds in soil per ECMC Table 915-1, EC, SAR, pH, metals, 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 and inorganic compounds per ECMC Table 915-1; this sample analysis includes, but is not limited to BTEX, naphthalene, 1,2,4-trimethylbenzene (TMB), and 1,3,5-TMB by EPA Method 8260, chloride and sulfate anions by EPA Method 300.0, and total dissolved solids (TDS) by Method SM 2540C.

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 tank battery 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 31

Number of soil samples exceeding 915-1 11

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

Approximate areal extent (square feet) 1100

NA / ND

-- Highest concentration of TPH (mg/kg) 76947

-- Highest concentration of SAR 5.97

BTEX > 915-1 Yes

Vertical Extent > 915-1 (in feet) 4

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 11/12/2025, a total of three background soil samples were collected from one discrete location (BKG01) at the adjacent Wells Ranch USX AE31-06 Flowline (REM #42667) and analyzed for metals in soil per ECMC Table 915-1, pH, EC, SAR, and boron. Background samples were collected at depths ranging between 1 and 5 feet below ground surface (ft. bgs). The maximum background pH was observed to be 8.12. The maximum background concentrations with 1.25x multiplier applied for arsenic, barium, and selenium were calculated to be 6.63 mg/kg, 119 mg/kg, and 0.225 mg/kg, respectively. Backgrounds were below the reporting limits for selenium, so the aforementioned background level was calculated by multiplying the lowest reporting limit by 1.25. All barium concentrations observed during decommissioning were below 1.25x the maximum background level. Site concentrations of pH, arsenic, and selenium exceed regulatory standards and background levels.

Was investigation derived waste (IDW) generated as part of this investigation?

Volume of solid waste (cubic yards) 10 Volume of liquid waste (barrels) 0

Is further site investigation required?

Based on the analytical results collected during decommissioning, a supplemental site investigation (SSI) will be completed to vertically and horizontally delineate the organic compound exceedances observed during decommissioning at AST07, PWV01, PWV02, and SEP03-FL locations. A proposed SSI map is attached to this Form 27. During the SSI, soil samples (SB01-SB21) will be collected and analyzed for full ECMC Table 915-1 constituents. Concurrently with the SSI, additional background samples (BKG01-BKG05) will be collected to determine if pH, arsenic, and selenium exceedances are attributed to native soil conditions at the site. The SSI will be completed in accordance with the proposed implementation schedule, and the results of the SSI will be submitted on a subsequent Form 27.

Following the completion of the SSI, remedial excavation activities will be proposed to remove the organic exceedances.

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.

During the initial decommissioning activities, elevated volatile organic compound (VOC) concentrations, hydrocarbon staining, and hydrocarbon odor was observed at sample location AST07@0-0.5'. Approximately 10 cubic yards of impacted soil was removed and transported off-site under a signed Noble manifest for disposal at Waste Management - North Weld Landfill in Ault, CO.

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.

Based on decommissioning analytical results, an SSI will be completed to vertically and horizontally delineate the organic compound exceedances observed during decommissioning at AST07, PWV01, PWV02, and SEP03-FL locations. The SSI will be completed in accordance with the attached proposed site investigation map, and proposed sampling plan outlined in the Site Investigation Report section of this Form 27. Following the completion of the SSI, a remedial excavation will be proposed to remove the aforementioned exceedances.

Soil Remediation Summary

In Situ

Ex Situ

 Bioremediation (or enhanced bioremediation)

 Yes Excavate and offsite disposal

 Chemical oxidation

 If Yes: Estimated Volume (Cubic Yards) 10

 Air sparge / Soil vapor extraction

 Name of Licensed Disposal Facility or ECMC Facility ID #

 Natural Attenuation

 No Excavate and onsite remediation

 Other

 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 and 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? Yes

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

No beneficial use.

Volume of E&P Waste (solid) in cubic yards _____ 10

E&P waste (solid) description Hydrocarbon impacted soil

ECMC Disposal Facility ID #, if applicable: _____

Non-ECMC Disposal Facility: Waste Management - North Weld Landfill - Ault, CO

Volume of E&P Waste (liquid) in barrels _____ 0

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 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. 11/10/2025

Proposed date of completion of Reclamation. 01/28/2028

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. 09/17/2025

Actual Spill or Release date, or date of discovery. 11/10/2025

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 11/10/2025

Proposed site investigation commencement. 07/28/2026

Proposed completion of site investigation. 07/29/2026

REMEDIAL ACTION DATES

Proposed start date of Remediation. 07/28/2026

Proposed date of completion of Remediation. 07/28/2027

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 AE 31-99HZ 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 July 2026.

OPERATOR COMMENT

This Form 27 is being submitted to include the decommissioning results and historic reportable releases discovered, and propose supplemental site investigation (SSI) activities at the former Wells Ranch USX AE 31-99HZ Tank Battery location.

Tank battery decommissioning activities occurred at the above referenced location on 11/10/2025-11/12/2025. Discrete soil samples were collected beneath the former facility infrastructure as described in the approved Form 27-Initial (Document No. 403558127). Analytical results indicated that soil samples PWV01-S, PWV01-W, PWV02-B, SEP03-FL, SS01, SS02, and FS01 exhibited benzene, 1,2,4-trimethylbenzene (TMB), 1,3,5-TMB, naphthalene, 1-methylnaphthalene (M), and 2-M concentrations in exceedance of the regulatory standards. Groundwater was not encountered.

During initial decommissioning activities, elevated PIDs, hydrocarbon odors and hydrocarbon staining was observed in sample location AST07. Approximately 10 cubic yards of impacted soil was removed and transported off-site under a signed Noble manifest for disposal at Waste Management - North Weld Landfill in Ault, CO.

On 11/12/2025, a total of three background soil samples were collected from one discrete location (BKG01) at the adjacent Wells Ranch USX AE31-06 Flowline (REM #42667) and analyzed for metals in soil per ECMC Table 915-1, pH, EC, SAR, and boron. Background samples were collected at depths ranging between 1 and 5 feet below ground surface (ft. bgs). The maximum background pH was observed to be 8.12. The maximum background concentrations with 1.25x multiplier applied for arsenic, barium, and selenium were calculated to be 6.63 mg/kg, 119 mg/kg, and 0.225 mg/kg, respectively. Backgrounds were below the reporting limits for selenium, so the aforementioned background level was calculated by multiplying the lowest reporting limit by 1.25. All barium concentrations observed during decommissioning were below 1.25x the maximum background level. Site concentrations of pH, arsenic, and selenium exceed regulatory standards and background levels.

Based on the analytical results collected during decommissioning, an SSI will be completed to vertically and horizontally delineate the organic compound exceedances observed during decommissioning at AST07, PWV01, PWV02, and SEP03-FL locations. A proposed SSI map is attached to this Form 27. During the SSI, soil samples (SB01-SB21) will be collected and analyzed for full ECMC Table 915-1 constituents. Concurrently with the SSI, additional background samples (BKG01-BKG05) will be collected to determine if pH, arsenic, and selenium exceedances are attributed to native soil conditions at the site. The SSI will be completed in accordance with the proposed implementation schedule. Following the completion of the SSI, remedial excavation activities will be proposed to remove the organic exceedances. The SSI is tentatively scheduled to commence in July 2026.

Pursuant to Rule 913,e, quarterly reporting will be conducted until closure criteria are achieved for the remediation project. The results of the SSI 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: Saadhana Purushothama

Title: Environmental Consultant

Submit Date: 02/04/2026

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: Abdul Elnajdi

Date: 02/06/2026

Remediation Project Number: 42661

COA Type

Description

<u>COA Type</u>	<u>Description</u>
1 COA	Operator will continue quarterly reporting until the site investigation is complete and Table 915-1 standards are met within the remediation area.

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>
404433081	FORM 27-SUPPLEMENTAL-SUBMITTED
404505665	LABORATORY ANALYTICAL REPORT
404505666	LABORATORY ANALYTICAL REPORT
404505668	LABORATORY ANALYTICAL REPORT
404531882	SITE INVESTIGATION PLAN
404531896	SITE INVESTIGATION REPORT
404531911	LABORATORY ANALYTICAL REPORT

Total Attach: 7 Files

General Comments

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

Total: 0 comment(s)