

State of Colorado
Energy & Carbon Management Commission

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Document Number:
404318987
Receive Date:
08/15/2025
Report taken by:
Krystal Heibel

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: SMITH ENERGY CORP	Operator No: 70385	Phone Numbers Phone: (303) 894-2100 Mobile: (303) 905-5341
Address: 12706 SHILOH RD		
City: GREELEY	State: CO	Zip: 80631
Contact Person: James Hix - East OWP EPS	Email: james.hix@state.co.us	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 30916 Initial Form 27 Document #: 403407430

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: Wellhead cut and cap sampling

SITE INFORMATION

Yes Multiple Facilities

Facility Type: WELL	Facility ID: _____	API #: 087-07839	County Name: MORGAN
Facility Name: FARNIK*J 34-9 (OWP)	Latitude: 40.496492	Longitude: -103.867770	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWSE	Sec: 9	Twp: 6N	Range: 58W Meridian: 6 Sensitive Area? No
Facility Type: LOCATION	Facility ID: 313909	API #: _____	County Name: MORGAN
Facility Name: FARNIK*J-66N58W 9SWSE	Latitude: 40.496437	Longitude: -103.867754	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: SWSE	Sec: 9	Twp: 6N	Range: 58W Meridian: 6 Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications ML

Most Sensitive Adjacent Land Use Cropland

Is domestic water well within 1/4 mile? Yes

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

There is a DWR permitted water well, Permit #46468 plotted within 1/4-mile. Reported static water level = 76 ft and TD = 235 ft. There are no NWI mapped wetlands; no surface water indicated within 1/4 mile. There are no residential building units (RBU) located within 1/4 mile. Nearest RBU ~2050 ft SE. The location is within CPW mapped HPH Mule Deer Winter Concentration Area.

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 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	SOILS	UNKNOWN	VISUALLY/FIELD SCREENING/ANALYTICAL

INITIAL ACTION SUMMARY

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

This oil and gas Location is in the ECMC Orphaned Well Program ("OWP"). This Form 27 Supplemental presents site investigation activities to be performed during decommissioning of Oil and Gas Facilities, specifically the Tank Battery and Flowline and soil sampling at the Pit #266766 located southwest of the Farnik* J #34-9 (OWP) well. The Farnik* J #34-9 (OWP) well was plugged and abandoned (PA) in July 2023. Cut and cap soil sample results did not indicate the need for additional investigation or remediation around the wellhead. Further site investigation may be required to delineate impacts at the former Farnik* J #34-9 (OWP) Tank Battery and to close the unlined earthen pit.

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):

Grab soil samples will be collected from areas most likely to exhibit E&P Waste impacts. Soil samples will be submitted for analysis of Table 915-1 parameters. Soil samples will be submitted for analysis of Table 915-1 parameters including organic compounds (TPH ranges C6-C36; BTEX; 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Naphthalene, PAH) and inorganic compounds (metals, soil suitability for reclamation).

Proposed Groundwater Sampling

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

Groundwater samples are not expected to be collected as part of this investigation. If encountered in sufficient quantity to enable sample collection, a grab groundwater sample or samples will be collected and submitted for analysis of organic compounds (BTEX; Naphthalene; 1,2,4-Trimethylbenzene; 1,3,5-Trimethylbenzene) and inorganic parameters (total dissolved solids (TDS), chloride ion, sulfate ion).

Proposed Surface Water Sampling

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

Surface water samples are not expected to be collected as part of this investigation.

Additional Investigative Actions

Additional alternative investigative actions described in attached Site Investigation Plan (summary):

No additional alternative investigative actions are expected to be conducted as part of this site investigation.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil	NA / ND
Number of soil samples collected <u>3</u>	-- Highest concentration of TPH (mg/kg) <u>150</u>
Number of soil samples exceeding 915-1 <u>0</u>	-- Highest concentration of SAR <u>5.6</u>

Was the areal and vertical extent of soil contamination delineated? Yes _____

BTEX > 915-1 No _____

Approximate areal extent (square feet) 3000 _____

Vertical Extent > 915-1 (in feet) 6 _____

Groundwater

Number of groundwater samples collected 0 _____

Highest concentration of Benzene (µg/l) _____

Was extent of groundwater contaminated delineated? No _____

Highest concentration of Toluene (µg/l) _____

Depth to groundwater (below ground surface, in feet) _____

Highest concentration of Ethylbenzene (µg/l) _____

Number of groundwater monitoring wells installed _____

Highest concentration of Xylene (µg/l) _____

Number of groundwater samples exceeding 915-1 _____

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?

Six site-specific background soil samples (Native BG01 @3', Native BG01 @6', Native BG02 @3', Native BG02 @6', Native BG03 @3', and Native BG03 @6') were collected from undisturbed areas at the edge of the wellpad. Analytical results showed that arsenic was reported above Table 915-1 in the wellhead soil samples and in the background soil samples. The soil pH was reported at 8.5 s.u. in one of the background soil samples and SAR was reported at 7.8 in another of the background soil samples. The laboratory analyzed the soil samples for total boron rather than hot water soluble boron. Additional site-specific background soil samples will also be collected from undisturbed areas away from historic oil and gas operations during the tank battery decommissioning activities.

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?

A site investigation will be conducted during the Tank Battery Decommissioning, Flowline removal, and unlined earthen Pit sampling. Further site investigation and remediation may be required depending on what the results show. The Farnik* J 34-9 (OWP) well was plugged and abandoned in July 2023. No further investigation appears to be required for the FARNIK*J 34-9 (OWP) wellhead based on the cut and cap soil sample results for samples collected on 07/26/2023.

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.

If E&P Waste impacts are encountered during decommissioning of Oil and Gas Facilities, approximately 10 cubic yards of impacted soils will be excavated, temporarily stockpiled on location, and hauled to a commercial disposal facility.

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.

If E&P Waste impacted soils are encountered, approximately 10 cubic yards of the E&P Waste impacted soils will be excavated and removed for disposal at a commercial landfill. If the horizontal and vertical extent of the E&P Waste impacts cannot be defined or removed during this initial action, then additional site investigation and remediation will be performed at a later date under an approved supplemental Form 27. Site data will be evaluated and remediation technologies implemented to meet Table 915-1 soil residential screening levels, protection of groundwater screening levels, or Table 915-1 groundwater and WQCC Regulation 41 numeric and narrative levels as applicable to site conditions.

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

_____ Natural Attenuation

_____ Other _____

_____ 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.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Approved Reporting Schedule:

Quarterly Semi-Annually Annually Other Supplemental Form 27 with cut and cap analytical results within 90 days of receipt

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 _____

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.

The SMITH ENERGY CORP - 70385 FARNIK*J 34-9 (OWP) and FARNIK*J-66N58W Tank Battery (Location ID#313909) are in the Colorado ECMC Orphaned Well Program. The former Operator's bond/surety or other state/federal funds will be used to plug and abandon (PA) the well, investigate, remediate, and reclaim the location.

Operator anticipates the remaining cost for this project to be: \$ 28000 _____

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? 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.

This oil and gas location will be reclaimed in accordance with 1000 Series Rules. This will be performed under a separate scope of work.

Is the described reclamation complete? _____

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. _____

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. 06/08/2023

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

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 07/26/2023

Proposed site investigation commencement. 08/18/2025

Proposed completion of site investigation. 10/31/2026

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:

The Farnik*J 34-9 (OWP) well was plugged and abandoned in July 2023. Cut and cap soil sample results did not indicate a need for further site investigation and remediation at the wellhead. This Form 27 Supplemental presents the site investigation workplan for the Tank Battery decommissioning, flowline removal, and unlined earthen pit sampling. Further site investigation and remediation requirements will be evaluated pending the completion of the Oil and Gas Facility Decommissioning and analytical results. Pit closure for PIT #266766 will be conducted during a future OWP Project.

OPERATOR COMMENT

The former SMITH ENERGY CORP - 70385 FARNIK*J #34-9 (OWP) oil and gas well (API #05-087-07839) FARNIK* J-66N58W 9SWSE (Location ID #313909) and Pit #266766 are in the ECMC Orphaned Well Program ("OWP"). The Farnik* J #34-9 (OWP) well was plugged and abandoned (PA) in July 2023. Cut and cap soil samples were collected from the wellhead excavation sidewalls, base, and from beneath the wellhead flowline riser. Soil samples were submitted to an accredited environmental laboratory for analysis of full Table 915-1 parameters. Site-specific background soil samples collected at the same time as the cut and cap soil sampling were submitted for analysis of Table 915-1 metals and soil suitability for reclamation parameters. Cut and cap soil sample results did not indicate a need for further site investigation and remediation at the Farnik*J #34-9 (OWP) Wellhead. Groundwater depth is expected to lie >76 ft bgs. Soils were mapped as the Rago loam (Map Unit Symbol: Ra) Unified Soil Classification Symbol: ML (silt) CL-CH (clay) over SM (sand). Surficial geology consists of eolian deposits (Qe) overlying Cretaceous-age Fox Hills sandstone (Kf) bedrock. This Form 27 Supplemental presents the site investigation and remediation workplan for the Tank Battery decommissioning, Flowline removal (~522 ft), and Pit #266766 soil sampling. Soil samples collected from beneath the key pieces of equipment, including but not limited to, aboveground storage tanks (AST), produced water vaults (PWV)/tanks, separators, manifolds, and flowline risers, will be submitted to an accredited environmental laboratory for analysis of full Table 915-1 parameters. Flowline trenches will be observed and field screened for evidence of spills/releases. Soils from the Pit #266766 sidewalls and floor will be observed and field screened for evidence of E&P Waste impacts. At a minimum, a pit sidewall exhibiting the highest degree of E&P Waste impact, or the expected downgradient sidewall in the absence of impact, and the pit floor soil sample(s) will be submitted for laboratory analysis of full Table 915-1 parameters. Pit #266766 will be closed during a future OWP project following additional sampling. Site-specific background soil samples collected from undisturbed areas away from historic oil and gas operations will be submitted for analysis of Table 915-1 metals and soil suitability for reclamation parameters. Site investigation and remediation will proceed under Remediation #30916.

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

Signed: James Hix

Title: East OWP EPS

Submit Date: 08/15/2025

Email: james.hix@state.co.us

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: Krystal Heibel

Date: 10/13/2025

Remediation Project Number: 30916

COA Type**Description**

	<p>ECMC has processed this form as an update; no review of the attached maps was conducted. Operator shall conduct the investigation in accordance with Rule 911.a.(4) guidance and the previously approved workplan. All ongoing/unaddressed comments/COAs from previous Forms remain applicable.</p> <p>"The former SMITH ENERGY CORP - 70385 FARNIK*J #34-9 (OWP) oil and gas well (API #05-087-07839) FARNIK* J-66N58W 9SWSE (Location ID #313909) and Pit #266766 are in the ECMC Orphaned Well Program ("OWP"). The Farnik* J #34-9 (OWP) well was plugged and abandoned (PA) in July 2023. Cut and cap soil samples were collected from the wellhead excavation sidewalls, base, and from beneath the wellhead flowline riser. Soil samples were submitted to an accredited environmental laboratory for analysis of full Table 915-1 parameters. Site-specific background soil samples collected at the same time as the cut and cap soil sampling were submitted for analysis of Table 915-1 metals and soil suitability for reclamation parameters. Cut and cap soil sample results did not indicate a need for further site investigation and remediation at the Farnik*J #34-9 (OWP) Wellhead. Groundwater depth is expected to lie >76 ft bgs. Soils were mapped as the Rago loam (Map Unit Symbol: Ra) Unified Soil Classification Symbol: ML (silt) CL-CH (clay) over SM (sand), Surficial geology consists of eolian deposits (Qe) overlying Cretaceous-age Fox Hills sandstone (Kf) bedrock. This Form 27 Supplemental presents the site investigation and remediation workplan for the Tank Battery decommissioning, Flowline removal (~522 ft), and Pit #266766 soil sampling. Soil samples collected from beneath the key pieces of equipment, including but not limited to, aboveground storage tanks (AST), produced water vaults (PWV)/tanks, separators, manifolds, and flowline risers, will be submitted to an accredited environmental laboratory for analysis of full Table 915-1 parameters. Flowline trenches will be observed and field screened for evidence of spills/releases. Soils from the Pit #266766 sidewalls and floor will be observed and field screened for evidence of E&P Waste impacts. At a minimum, a pit sidewall exhibiting the highest degree of E&P Waste impact, or the expected downgradient sidewall in the absence of impact, and the pit floor soil sample(s) will be submitted for laboratory analysis of full Table 915-1 parameters. Pit #266766 will be closed during a future OWP project following additional sampling. Site-specific background soil samples collected from undisturbed areas away from historic oil and gas operations will be submitted for analysis of Table 915-1 metals and soil suitability for reclamation parameters. Site investigation and remediation will proceed under Remediation #30916. "</p>
1 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
404318987	INVESTIGATION/REMEDATION WORKPLAN (SUPPLEMENTAL)
404319014	SOIL SAMPLE LOCATION MAP
404389594	FORM 27-SUPPLEMENTAL-SUBMITTED

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)