

State of Colorado
Energy & Carbon Management Commission

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Report taken by:
Taylor Robinson

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: <u>KERR MCGEE OIL & GAS ONSHORE LP</u>	Operator No: <u>47120</u>	Phone Numbers
Address: <u>P O BOX 173779</u>		Phone: <u>(720) 929-4306</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80217-3779</u>		Mobile: <u>()</u>
Contact Person: <u>Erik Mickelson</u>	Email: <u>DJRemediation_Forms@oxy.com</u>	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 40009 Initial Form 27 Document #: 404130419

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: <u>TANK BATTERY</u>	Facility ID: <u>482940</u>	API #: _____	County Name: <u>WELD</u>
Facility Name: <u>3-3N-66W SESE HSR-Lomax TB</u>	Latitude: <u>40.248360</u>	Longitude: <u>-104.754050</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>SESE</u>	Sec: <u>3</u>	Twps: <u>3N</u>	Range: <u>66W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

SITE CONDITIONS

General soil type - USCS Classifications SM Most Sensitive Adjacent Land Use Livestock
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? Yes

Other Potential Receptors within 1/4 mile

Domestic water well: multiple domestic wells located within a 1/4 mile
Surface water: none
Wetlands: none
Spring: none
Livestock: multiple livestock areas within a 1/4 mile
Occupied Building: multiple occupied buildings located within a 1/4 mile
High Priority Habitats: none

SITE INVESTIGATION PLAN

TYPE OF WASTE:

- E&P Waste
- Other E&P Waste
- Non-E&P Waste
- Produced Water
- Workover Fluids
- Oil
- Tank Bottoms
- Condensate
- Pigging Waste
- Drilling Fluids
- Rig Wash
- Drill Cuttings
- Spent Filters
- Pit Bottoms
- Other (as described by EPA)

DESCRIPTION OF IMPACT

Impacted?	Impacted Media	Extent of Impact	How Determined
UNDETERMINED	GROUNDWATER	TBD	Groundwater samples/laboratory analytical results
Yes	SOILS	TBD	Inspection/soil samples/laboratory analytical results

INITIAL ACTION SUMMARY

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

Decommissioning activities were completed at the Lomax16-3/Logan15-3A production facility on May 29, 2025. Groundwater was not encountered during decommissioning activities. Visual inspection and field screening of soils at one separator, one meter house, one produced water vessel (PWV), one emission control device (ECD), and one aboveground storage tank (AST) was conducted following removal activities, and soil samples (SEP-B01@4', SEP-B02@4', AST-B01@3', PW-B01@5' and PW-W01@2.5') were submitted for laboratory analysis to determine if a release occurred. Laboratory analytical results indicated that pH, SAR, arsenic, and selenium concentrations in soil sample AST-B01@3" exceeded the applicable ECMC Table 915-1 standards and/or background limits. A verification soil sample (AST-B01-01@3") was collected and submitted for analysis of pH, SAR, arsenic and selenium only. Laboratory analytical results for verification soil sample AST-B01-01@3" confirmed the pH exceedance in AST-B01@3" and final analytical results for SAR, arsenic, and selenium are pending and will be summarized in a forthcoming Form 27-Supplemental update. As such, a Form 19-Initial/Supplemental Spill/Release Report (ECMC Document No. 404239358) was submitted on June 13, 2025, and the ECMC issued Spill/Release Point ID is pending. Soil sample location and field screening data are presented in Table 1. The soil sample and field screening locations are illustrated on Figure 1. The secured laboratory analytical reports are attached. The field notes and a photographic log are provided as attached.

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):

On May 29, 2025, soil samples were collected from the base (PW-B01@5') and west sidewall (PW-W01@2.5') of the PWV excavation area, from the separator excavation area (SEP-B01@4', SEP-B02@4'), and beneath the former AST (AST-B01@3"). The soil samples were submitted for laboratory analysis of the full Table 915-1 analytical suite using ECMC approved methods. Laboratory analytical results indicated that pH, SAR, arsenic, and selenium concentrations in soil sample AST-B01@3" exceeded the applicable ECMC Table 915-1 standards and/or background limits. A verification soil sample (AST-B01-01@3") was collected and submitted for analysis of pH, SAR, arsenic and selenium only. Laboratory analytical results for verification soil sample AST-B01-01@3" confirmed the pH exceedance in AST-B01@3" and final analytical results for SAR, arsenic, and selenium are pending and will be summarized in a forthcoming Form 27-Supplemental update. The soil analytical results are summarized in Tables 2 through 5.

Proposed Groundwater Sampling

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

Groundwater was not encountered during decommissioning activities. If groundwater is encountered during remaining activities, a minimum of one grab sample will be collected as soon as practical. Groundwater samples will be submitted to an accredited laboratory for all analytes listed in ECMC Table 915-1 Organic Compounds in Groundwater and Groundwater Inorganic Parameters using standard methods appropriate for detecting the target analytes in 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):

On May 29, 2025, visual inspections and field screening of soils was conducted at three sidewalls within the PWV excavation area, one former meter house, one former ECD, and beneath one former AST. Based on the inspection and screening results, hydrocarbon-impacted soils were not observed at the soil screening locations. As a result, no soil samples were submitted for laboratory analysis from these areas in accordance with the ECMC Operator Guidance for Oil & Gas Facility Closure document.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 8

Number of soil samples exceeding 915-1 6

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

Approximate areal extent (square feet) 25

NA / ND

ND Highest concentration of TPH (mg/kg) _____

-- Highest concentration of SAR 10.7

BTEX > 915-1 No

Vertical Extent > 915-1 (in feet) 1

Groundwater

Number of groundwater samples collected 0

Was extent of groundwater contaminated delineated? No

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?

Background soil samples AST-BG01@6" - AST-BG04@6" were collected from non-impacted native material (Olney loamy sand) nearby the former facility. Background soil samples from the HSR-Eddington 9-3 wellhead (located approximately 1270' NW) have been included (collected from similar soil type (Olney loamy sand), depths, and from the same crop field. The background soil samples were submitted for laboratory analysis of the Soil Suitability for Reclamation Parameters in Soils and ECMC Table 915-1 Metals using standard methods appropriate for detecting the target analytes in Table 915-1. Analytical results for the background soil samples are presented in Tables 3 and 5. The background locations are illustrated on Figures 1 and 2.

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?

Site assessment and/or excavation activities to address the remaining soil impacts are ongoing. Additional site-specific backgrounds will be collected. Final analytical results for verification soil sample (AST-B01-01@3") are pending and will be summarized in a forthcoming Form-27 Supplemental update.

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.

Site assessment and/or excavation activities to address the remaining soil impacts are ongoing. Additional site-specific backgrounds will be collected. Final analytical results for verification soil sample (AST-B01-01@3") are pending and will be summarized in a forthcoming Form-27 Supplemental update. If required, soil will be removed and transported to a licensed 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.

Site assessment and/or excavation activities to address the remaining soil impacts are ongoing. Additional site-specific backgrounds will be collected. Final analytical results for verification soil sample (AST-B01-01@3") are pending and will be summarized in a forthcoming Form-27 Supplemental update.

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.

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.

The site will be reclaimed in accordance with ECMC 1000 Series Reclamation Rules.

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. 03/12/2025

Actual Spill or Release date, or date of discovery. 06/12/2025

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 05/29/2025

Proposed site investigation commencement. 05/29/2025

Proposed completion of site investigation. 12/31/2025

REMEDIAL ACTION DATES

Proposed start date of Remediation. 06/12/2025

Proposed date of completion of Remediation. 12/31/2025

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:

OPERATOR COMMENT

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

Signed: Erik Mickelson _____

Title: Environmental Lead _____

Submit Date: 06/17/2025 _____

Email: DJRemediation_Forms@oxy.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: Taylor Robinson _____

Date: 11/13/2025 _____

Remediation Project Number: 40009 _____

COA Type**Description**

	The volume of water shown in the attached photo documentation in comparison to the precipitation data prior to the time of sampling indicates the water observed within the excavation may be groundwater; therefore, Operator shall conduct additional investigation to determine the depth to groundwater at the location. If shallow groundwater is encountered during the investigation, characterization of the groundwater and the capillary fringe zone is required.
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**

404239138	INVESTIGATION/REMEDATION WORKPLAN (SUPPLEMENTAL)
404239217	SOIL SAMPLE LOCATION MAP
404239218	SOIL SAMPLE LOCATION MAP
404239219	LABORATORY ANALYTICAL REPORT
404239220	LABORATORY ANALYTICAL REPORT
404239221	LABORATORY ANALYTICAL REPORT
404239224	PHOTO DOCUMENTATION
404240702	ANALYTICAL DATA SUMMARY TABLE(S)
404434205	FORM 27-SUPPLEMENTAL-SUBMITTED

Total Attach: 9 Files

General Comments**User Group****Comment****Comment Date**

		Stamp Upon Approval
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Total: 0 comment(s)