

State of Colorado
Energy & Carbon Management Commission

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404396860
Receive Date:
11/14/2025

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) 929-4307</u>
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80217-3779</u>		Mobile: <u>()</u>
Contact Person: <u>Max Moran</u>	Email: <u>DJRemediation_Forms@oxy.com</u>	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 32875 Initial Form 27 Document #: 403512385

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: <u>LOCATION</u>	Facility ID: <u>318771</u>	API #: _____	County Name: <u>WELD</u>
Facility Name: <u>WALTER J. RANKIN UNIT-63N67W 19NWNW</u>	Latitude: <u>40.215230</u>	Longitude: <u>-104.938120</u>	
** correct Lat/Long if needed: Latitude: <u>40.215861</u>		Longitude: <u>-104.938247</u>	
QtrQtr: <u>NWNW</u>	Sec: <u>19</u>	Twp: <u>3N</u>	Range: <u>67W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

Facility Type: <u>SPILL OR RELEASE</u>	Facility ID: <u>486162</u>	API #: _____	County Name: <u>WELD</u>
Facility Name: <u>RANKIN J WALTER UT2 O SA</u>	Latitude: <u>40.215940</u>	Longitude: <u>-104.938239</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>NWNW</u>	Sec: <u>19</u>	Twp: <u>3N</u>	Range: <u>67W</u> Meridian: <u>6</u> Sensitive Area? <u>Yes</u>

SITE CONDITIONS

General soil type - USCS Classifications SM

Most Sensitive Adjacent Land Use Agriculture

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

Water well 590 feet (ft) northwest. County Roads 970 ft west and 1,110 ft north. Occupied buildings 850 ft south, 1,160 ft west, and 1,250 ft north. Groundwater at approximately 15 ft below ground surface (bgs).

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	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 Rankin J Walter UT2 facility on January 31 and March 22, 2024. Groundwater was encountered during excavation activities at approximately 15 ft bgs. Visual inspection and field screening of soil at two aboveground storage tanks (ASTs), one produced water vessel (PWV), three emission control devices (ECDs), one meter house, and one separator were conducted following removal activities, and soil samples (AST01@0.5', AST02@0.5', PWV-W01@2', PWV-B01@6', SEP01-INLET@4', SEP01-OUTLET@4', and FL01@3') were submitted for analysis of full list Table 915-1 constituents, to determine if a release occurred. Laboratory analytical results indicated that total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), arsenic, and/or barium impacts exceeding the ECMC Table 915-1 allowable levels or site-specific background levels were present at the AST01 and FL01 locations. As such, a Form 19 Initial/Supplemental Spill/Release Report (Document No. 403674666) was submitted on February 2, 2024, and the ECMC issued Spill/Release Point ID 486162. Future samples submitted for these excavation locations will be submitted for the excavation-specific waste profile including TPH, benzene, toluene, ethylbenzene, xylenes (BTEX), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene (TMBs), PAHs, pH, boron, and/or select Table 915-1 metals, using ECMC-approved methods (Approved Doc# 404045816).

Assessment activities are ongoing and will be summarized in a subsequent Form 27 Supplemental report.

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):

Between January 31 and July 31, 2024, excavation activities were conducted to address remaining soil impacts at the former AST01 and FL01 locations. Confirmation soil samples were collected at depths ranging from 3.5 to 15 ft below ground surface (bgs). Samples were submitted for the excavation-specific waste profile including TPH, benzene, toluene, ethylbenzene, xylenes (BTEX), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene (TMBs), PAHs, pH, boron, and/or select Table 915-1 metals, using ECMC-approved methods. Initial results indicated PAH, pH, arsenic, and/or lead impacts exceeding the ECMC Table 915-1 allowable level and background level were present in the AST excavation. Verification samples were collected and lab results indicated that Arsenic, Barium, and/or Selenium levels exceeded ECMC Table 915-1 allowable levels and background limits. Excavation and assessment activities to address the metals exceedances and will be detailed in a forthcoming Form 27-Supplemental.

Proposed Groundwater Sampling

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

Groundwater was encountered in the facility excavation at approximately 15 ft bgs. Whether groundwater was in contact with impacted soil is pending deeper soil background sample collection. One groundwater sample (GW-B05@15') was collected and submitted for analysis of full list Table 915-1 constituents in groundwater. Laboratory analytical results indicate that organic Table 915-1 constituents in groundwater were in compliance and all below the laboratory reporting limits. A background groundwater sample is needed to determine inorganic compliance.

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 January 31, 2024, visual inspections and field screening of soils was conducted at the hatch and loadout for each AST, three sidewalls of the PWV excavation, one meter house, and three ECDs. Based on the inspection and screening results, impacted soil was 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.

Excavation at the former AST01 location cannot continue to the west due to an active gas line. As such, a test pit was advanced to determine if impacts extend past the line to the west. No organic compounds were detected above the reporting limits in any of the test pit samples; therefore, the test pit sample analytical results are considered to be indicative of native soil.

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 43

Number of soil samples exceeding 915-1 41

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

Approximate areal extent (square feet) 5095

NA / ND

-- Highest concentration of TPH (mg/kg) 850

-- Highest concentration of SAR 4.34

BTEX > 915-1 Yes

Vertical Extent > 915-1 (in feet) 15

Groundwater

Number of groundwater samples collected 1

Was extent of groundwater contaminated delineated? No

Depth to groundwater (below ground surface, in feet) 15

Number of groundwater monitoring wells installed 0

Number of groundwater samples exceeding 915-1 1

ND Highest concentration of Benzene (µg/l)

ND Highest concentration of Toluene (µg/l)

ND Highest concentration of Ethylbenzene (µg/l)

ND Highest concentration of Xylene (µg/l)

NA 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 tank battery background soil sample (TB-BG01@0.5') was collected from the material used to construct the tank battery for comparison to shallow soil samples collected in the fill. Fourteen native background soil samples (Native-BG01@3' to Native-BG04@3', Native-BG01@6' through Native-BG04@6', TP-B01@9', TP-B02@9', TP-B03@9', TP-N02@6', TP-E01@6', and TP-S01@6') were collected from the native material outside of the facility excavation. Background soil samples were submitted for laboratory analysis of pH, electrical conductivity (EC), sodium adsorption ratio (SAR), boron, and Table 915-1 metals, using ECMC-approved methods. Laboratory analytical results indicate that levels of pH, arsenic, barium, and selenium are naturally high in the soil used to construct the tank battery and EC, SAR, pH, boron, arsenic, barium, and selenium are naturally high in the native soil.

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 background groundwater sample is needed to determine groundwater compliance. Deeper background samples are needed to determine compliance of the base sample B05@15'. Excavation and assessment activities to address the metals exceedances and will be detailed in a forthcoming Form 27-Supplemental.

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.

A background groundwater sample is needed to determine groundwater compliance. Assessment activities are ongoing to address the barium exceedance at E03@6' and will be detailed in a forthcoming Form 27-Supplemental.

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.

A background groundwater sample is needed to determine groundwater compliance. Assessment activities are ongoing to address the barium exceedance at E03@6' and will be detailed in a forthcoming Form 27-Supplemental.

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

_____ Name of Licensed Disposal Facility or ECMC Facility ID # _____

_____ Natural Attenuation

_____ 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.

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. 02/01/2024

Actual Spill or Release date, or date of discovery. 02/01/2024

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 01/31/2024

Proposed site investigation commencement. 01/31/2024

Proposed completion of site investigation. 05/31/2026

REMEDIAL ACTION DATES

Proposed start date of Remediation. 05/01/2024

Proposed date of completion of Remediation. 05/31/2026

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:

OPERATOR COMMENT

No additional assessment and/or remediation activities have been conducted at this site since the previous Form 27-Supplemental update was submitted (Doc. No. 404228589). As such, no additional screening or sampling results are provided in this document. A background groundwater sample is needed to determine groundwater compliance. Assessment activities are ongoing to address the barium exceedance at E03@6' and will be detailed in a forthcoming Form 27-Supplemental.

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

Signed: Max Moran

Title: Environmental Advisor

Submit Date: 11/14/2025

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: 05/20/2026

Remediation Project Number: 32875

COA Type**Description**

	ECMC has processed this form as an update; no analytical was attached thus approval of this form does not imply any agreement with comments on completion of site investigation. All ongoing/unaddressed comments/COAs from previous Forms remain applicable.
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**

404396860	INVESTIGATION/REMEDATION WORKPLAN (SUPPLEMENTAL)
404437130	OTHER
404666626	FORM 27-SUPPLEMENTAL-SUBMITTED

Total Attach: 3 Files

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

		Stamp Upon Approval
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Total: 0 comment(s)