

State of Colorado  
Energy & Carbon Management Commission

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Document Number:  
404400475  
Receive Date:  
11/10/2025

Report taken by:  
Kari Brown

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 ECMC 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: KERR MCGEE OIL & GAS ONSHORE LP	Operator No: 47120	<b>Phone Numbers</b>
Address: P O BOX 173779		Phone: (720) 929-4307
City: DENVER	State: CO	Zip: 80217-3779
Contact Person: Max Moran	Email: DJRemediation_Forms@oxy.com	Mobile: ( )

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 35960 Initial Form 27 Document #: 403789218

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: WELL	Facility ID: _____	API #: 123-11242	County Name: WELD
Facility Name: MARTIN T. HART GAS UNIT E TRUE 1	Latitude: 40.113720	Longitude: -104.882610	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: NWNW	Sec: 27	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? Yes

Facility Type: LOCATION	Facility ID: 319426	API #: _____	County Name: WELD
Facility Name: MARTIN T. HART GAS UNIT E TR- 62N67W 27NWNW	Latitude: 40.113720	Longitude: -104.882610	
** correct Lat/Long if needed: Latitude: 40.113820		Longitude: -104.883500	
QtrQtr: NWNW	Sec: 27	Twp: 2N	Range: 67W Meridian: 6 Sensitive Area? Yes

Facility Type: SPILL OR RELEASE Facility ID: 487499 API #: \_\_\_\_\_ County Name: WELD  
 Facility Name: Smith 6-27A, Hart Mar Facility Latitude: 40.113820 Longitude: -104.883500  
 \*\* correct Lat/Long if needed: Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
 QtrQtr: NWNW Sec: 27 Twp: 2N Range: 67W Meridian: 6 Sensitive Area? Yes

Facility Type: SPILL OR RELEASE Facility ID: 487561 API #: \_\_\_\_\_ County Name: WELD  
 Facility Name: Hart Martin E True 1 Wellhead Latitude: 40.113744 Longitude: -104.882749  
 \*\* correct Lat/Long if needed: Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
 QtrQtr: NWNW Sec: 27 Twp: 2N Range: 67W Meridian: 6 Sensitive Area? Yes

Facility Type: SPILL OR RELEASE Facility ID: 487897 API #: \_\_\_\_\_ County Name: WELD  
 Facility Name: Hart Martin E True 1 Wellhead Latitude: 40.113720 Longitude: -104.882610  
 \*\* correct Lat/Long if needed: Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
 QtrQtr: NWNW Sec: 27 Twp: 2N Range: 67W Meridian: 6 Sensitive Area? Yes

**SITE CONDITIONS**

General soil type - USCS Classifications SM Most Sensitive Adjacent Land Use Occupied Buildings  
 Is domestic water well within 1/4 mile? No 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**  
 Occupied buildings 330 feet (ft) north, 760 ft southwest. Livestock 220 ft south, 1,090 ft southwest, and 1,140 ft northwest. County Roads 990 ft west and 980 ft north. Agriculture. Groundwater at approximately 13.5 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.

Wellhead cut & cap operations were completed at the Hart Martin E True 1 wellhead on 7/29/24. Groundwater was encountered in the cut & cap excavation at 13.5 ft bgs. Visual inspection & field screening of soil around the wellhead & pumping equipment were conducted following cut & cap operations. A soil sample (B01@6') was submitted for analysis of full list Table 915-1 constituents to determine if a release occurred. The flowline associated with the wellhead was removed on 7/29 & 7/30/24. Samples were collected from where the flowline risers were disconnected from the wellhead (WH01-RISER@3') & the separator (SEP-RISER@4') & where a pothole had potential impact (FL02@6'). Results indicated that polycyclic aromatic hydrocarbon (PAH), pH, &/or Table 915-1 metals impacts exceeding the allowable levels or background levels were present at WH01-RISER & FL02. Form 19 Initial Spill Reports (Doc# 403872676 & 403908809) were submitted on 8/2 & 9/6/24 & the ECMC issued Spill IDs 487561 & 487897.

Decommissioning activities were completed at the Smith 6-27A, Hart Mar facility on 7/30/24. Groundwater was not encountered during excavation activities. Visual inspection & field screening of soil at one aboveground storage tank (AST), one produced water vessel (PWV), one meter house, three dumpline potholes, & one separator were conducted following removal activities. Samples were submitted for analysis of full list Table 915-1 constituents to determine if a release occurred. Results indicated that PAH &/or pH impacts were present at the AST, a dumpline pothole (FL01@6'), PWV base, & separator inlet. A Form 19 Initial Spill Report (Doc# 403872669) was submitted on 8/2/24 & the ECMC issued Spill ID 487499.

The facility, wellhead, & flowline soil sample locations are depicted on Figures 1, 2, & 3.

Excavation activities at the former PWV are pending 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 October 8 & November 13, 2024, excavation activities were conducted to address remaining soil impacts at the FL01, FL02, AST, & wellhead riser locations & 24 confirmation soil samples were collected from the base & sidewalls of the final excavation extents at depths ranging from 8 to 15 ft bgs & 3 to 12 ft bgs, respectively. The confirmation soil samples were submitted for laboratory analysis of the excavation specific waste profiles, including total petroleum hydrocarbons (TPHs), PAHs, boron, pH, &/or select Table 915-1 metals using ECMC-approved methods. Analytical results indicated that all samples at the final FL01, FL02, AST, & wellhead riser excavation extents were within the ECMC Table 915-1 allowable levels or background levels x1.25 for Table 915-1 metals. Excavation activities are pending at the PWV-B01 location. The laboratory reports are attached.

### Proposed Groundwater Sampling

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

On October 9, 2024, a groundwater sample (GW-WH01-RISER-B01@14') was collected from the wellhead excavation. The groundwater sample was submitted for analysis of full list Table 915-1 constituents in groundwater. Background groundwater samples (GW-NATIVE-BG12@14' and GW-NATIVE-BG15@14') were collected for analysis of Table 915-1 inorganic constituents in groundwater. Based on the laboratory analytical results groundwater concentrations were in compliance with ECMC Table 915-1 allowable levels or background levels for all requested analytes. No organic constituents were detected above the laboratory reporting limits. The groundwater sample locations and background groundwater sample locations are depicted on Figure 4. The groundwater sample analytical results are summarized in Table 3.

### 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 July 29 and July 30, 2024, visual inspections and field screening of soil were conducted at four sidewall locations within the cut and cap excavation area, four locations at the ground surface adjacent to the wellhead excavation, four flowline potholes, the hatch and footprint of the AST, three sidewalls of the PWV excavation, and three dumpline potholes. Based on the inspection and screening results, impacted soil was not observed at the soil screening locations and no soil samples were submitted for analysis from these areas. A photographic log is attached.

On August 9, 2024, a soil gas survey was conducted at four soil vapor points (SVPs) installed adjacent to the former wellhead location following cut and cap operations. One additional SVP was blocked and could not be screened. GEM 5000 field readings were all non-detect for methane at all soil vapor points. The soil vapor point locations are illustrated on Figure 1. The soil vapor field form is included as an attachment.

## SITE INVESTIGATION REPORT

### SAMPLE SUMMARY

Soil	NA / ND
Number of soil samples collected <u>41</u>	-- Highest concentration of TPH (mg/kg) <u>475</u>
Number of soil samples exceeding 915-1 <u>40</u>	-- Highest concentration of SAR <u>17.3</u>
Was the areal and vertical extent of soil contamination delineated? <u>No</u>	BTEX > 915-1 <u>No</u>
Approximate areal extent (square feet) <u>1928</u>	Vertical Extent > 915-1 (in feet) <u>15</u>
<b>Groundwater</b>	
Number of groundwater samples collected <u>1</u>	ND Highest concentration of Benzene (µg/l) <u>          </u>
Was extent of groundwater contaminated delineated? <u>No</u>	ND Highest concentration of Toluene (µg/l) <u>          </u>

Depth to groundwater (below ground surface, in feet) 14

ND Highest concentration of Ethylbenzene (µg/l) \_\_\_\_\_

Number of groundwater monitoring wells installed 0

ND Highest concentration of Xylene (µg/l) \_\_\_\_\_

Number of groundwater samples exceeding 915-1 0

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?

Thirty background soil samples (NATIVE-BG01@3' through NATIVE-BG11@3', NATIVE-BG01@6' through NATIVE-BG11@6', NATIVE-BG12@10' through NATIVE-BG15@10', and NATIVE-BG12@13' through NATIVE-BG15@13') were collected from the native material outside of the wellhead cut and cap and facility excavations. The 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 EC, SAR, pH, boron, arsenic, barium, and selenium are naturally high in the native soil. The background soil sample laboratory analytical results are summarized in Table 2. The background soil samples are depicted on Figure 4.

Two background groundwater samples were collected for analysis of Table 915-1 inorganic constituents in groundwater. The background groundwater sample results are summarized in Table 3. The background groundwater locations are depicted on Figure 4.

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?

Excavation activities at the PWV are pending and will be summarized in a subsequent Form 27 Supplemental report.

**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.

Impacted soil from the FL01, FL02, AST, PWV, and wellhead riser excavations will be removed and transported to a licensed disposal facility. Final disposal information will be provided upon completion of assessment activities. Disposal records are kept on file and available upon request. The excavation areas will be backfilled and contoured to match pre-existing conditions.

**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.

Laboratory data indicate that PAH, pH, and/or Table 915-1 metals impacts at the FL01, FL02, AST, and wellhead riser locations have been remediated and all soil at the final excavation extents is within the ECMC Table 915-1 allowable levels x1.25 for Table 915-1 metals. Laboratory data indicate that PAH impacts exceeding the ECMC Table 915-1 allowable levels remain in the PWV excavation area. Groundwater was encountered at approximately 13.5 ft bgs. Analytical results indicate that groundwater concentrations were in compliance with ECMC Table 915-1 allowable levels for all requested analytes. No organic constituents were detected above the laboratory reporting limits. Excavation activities at the PWV are pending and will be summarized in a subsequent Form 27 Supplemental report.

**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.

**DENIED**

# 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 \_\_\_\_\_

## 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.

KMOG has sufficient insurance and bonding to fully address the anticipated costs of Remediation, including the remaining estimated costs for this project. KMOG currently has over 40 million in bonds with the Energy and Carbon Management Commission. The cost for remediation is a preliminary estimate only, costs may change upwards or downward based on site-specific information. KMOG makes no representation or guarantees as to the accuracy of the preliminary estimate.

Operator anticipates the remaining cost for this project to be: \$ 24000 \_\_\_\_\_

## 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 reseeded 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. 09/05/2024

Actual Spill or Release date, or date of discovery. 09/04/2024

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 07/29/2024

Proposed site investigation commencement. 07/29/2024

Proposed completion of site investigation. 05/06/2026

### REMEDIAL ACTION DATES

Proposed start date of Remediation. 07/29/2024

Proposed date of completion of Remediation. 05/06/2026

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 work has been done since the previous Form 27 submitted on July 22, 2025 (Document No. 404237247), which is pending ECMC review. Additional assessment at this location is pending. Work is scheduled to resume by May, 2026. As such, none of the previous attachments have been included with this form. The implementation schedule has been updated.

The submitted Form 27 Document No. 404237247 is still under review. The report has auto-populated the report verbiage from the previously approved Form 27 (404040132) submitted on 2/18/2025.

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: 11/10/2025

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: \_\_\_\_\_

Date: \_\_\_\_\_

Remediation Project Number: 35960

**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**

404400475	FORM 27-SUPPLEMENTAL-SUBMITTED
404426172	IMPLEMENTATION SCHEDULE

Total Attach: 2 Files

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

Environmental	ECMC has denied this form without technical review as Operator has not provided an updated Form that is complete and accurate as required by Rule 207. Operator shall submit a replacement form that has been updated to accurately reflect remediation status and site conditions. All ongoing/unaddressed comments/COAs from previous Forms remain applicable.	12/02/2025
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Total: 1 comment(s)