

State of Colorado  
Energy & Carbon Management Commission

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404216420  
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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 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: <u>OMIMEX PETROLEUM INC</u>	Operator No: <u>66190</u>	<b>Phone Numbers</b>
Address: <u>100 CRESCENT CT SUITE700-#5528</u>		
City: <u>DALLAS</u>	State: <u>TX</u>	Zip: <u>75201</u>
Contact Person: <u>James Hix - East OWP EPS</u>	Email: <u>james.hix@state.co.us</u>	Phone: <u>(303) 894-2100</u>
		Mobile: <u>(303) 905-5341</u>

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 40205 Initial Form 27 Document #: 404146467

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>WELL</u>	Facility ID: _____	API #: <u>125-10155</u>	County Name: <u>YUMA</u>
Facility Name: <u>NIEBUR 10-33-5-43</u>	Latitude: <u>40.358650</u>	Longitude: <u>-102.153460</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>NWSE</u>	Sec: <u>33</u>	Twp: <u>5N</u>	Range: <u>43W</u>
Meridian: <u>6</u>	Sensitive Area? <u>No</u>		

SITE CONDITIONS

General soil type - USCS Classifications SM Most Sensitive Adjacent Land Use Rangeland, adjacent Cropland

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? No

**Other Potential Receptors within 1/4 mile**

There is one DWR Permitted Water Well plotted within 1/4-mile South of the Location. There is a windmill shown on the topographic map ~900 ft NE of the Location. DWR Permit #28357- Receipt #9069233 (Livestock 1966) [DTW = 39 ft bgs, Top of Perf Casing = 178 ft bgs, TD = 190 ft bgs, ~360 ft S]; DWR Permit #6014-AD Receipt #0067448 (Irrigation - Denied) [Aquifer - Ogallala, Proposed TD = 300 ft bgs, ~1785 ft NNE], Est Depth to Groundwater = 39 ft bgs. There are no mapped surface waters, nor any NWI Mapped Wetlands within 1/4-mile. There are no CPW Mapped HPH within 1/4-mile. There are no residential building units (RBU) within 1/4-mile of the Location.

**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	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 Colorado ECMC Orphaned Well Program (OWP). This Form 27 Supplemental presents the results of site investigation activities performed during decommissioning of Oil and Gas Facilities, specifically cut and cap sampling activities following emergency plugging and abandonment (PA) of the well. The well was plugged to maintain well control and to prevent a potential spill. Field screening was performed of the four sidewalls and base of the wellhead excavation to investigate for evidence of E&P Waste impacts. Soil samples were submitted to an accredited environmental laboratory for analysis of full Table 915-1 parameters from the excavation sidewall soils that exhibit E&P Waste impact; or from the expected downgradient sidewall in the absence of E&P Waste impact; from the base of the excavation, and from beneath the flowline riser. Soil samples were collected and analyzed in accordance with Colorado ECMC 900 Series Rules.

**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 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

Number of soil samples collected 2

Number of soil samples exceeding 915-1 1

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

Approximate areal extent (square feet) 182

### NA / ND

ND Highest concentration of TPH (mg/kg) \_\_\_\_\_

-- Highest concentration of SAR 3.89

BTEX > 915-1 No

Vertical Extent > 915-1 (in feet) 9

### 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?

Site-specific background samples were not collected as part of this site investigation. Collection of site-specific background soil samples will be assessed during a future OWP flowline decommissioning project. Background soil samples will be collected from undisturbed areas away from historic oil and gas facilities at similar depths as confirmation soil samples to assess naturally occurring metals concentrations and soil suitability for reclamation parameters.

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?

Further site investigation is required for a future OWP flowline decommissioning project. Confirmation soil samples will be collected beneath the flowline ends and areas where E&P Waste impacts are most likely to occur. Analytical results for wellhead decommissioning cut and cap soil samples indicated that TPH; BTEX; 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene; and PAH compounds were not detected at or above laboratory reporting limits. Arsenic was detected at 1.44 mg/kg in the sidewall soil sample, but was not detected in the excavation floor sample. Barium was detected in both samples; and lead and nickel were detected in the sidewall soil sample at concentrations below the Table 915-1 protection of groundwater soil screening levels (SSL). Analytical results reported a soil pH of 9.22 standard units (s.u.) in sidewall sample 337397 WH-EW-S2 at 7 ft bgs and 10.2 s.u. in floor soil sample 337397 WH-S1 at 9 ft bgs. Both of these results are above the Table 915-1 upper pH level of 8.3 s.u. The results for EC and SAR were below their respective Table 915-1 soil suitability for reclamation levels; and hot water soluble boron was not detected in either soil sample. Further site investigation will assess collection of site-specific background soil samples for Table 915-1 metals and soil suitability for reclamation parameters.

## 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 impacted soils will be excavated and removed. 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

\_\_\_\_\_ 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.

# REMEDIATION PROGRESS UPDATE

## PERIODIC REPORTING

### Approved Reporting Schedule:

Quarterly    Semi-Annually    Annually    Other

A Form 27 Supplemental will be submitted within 90 days from receipt of results.

### 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.

This OMIMEX PETROLEUM INC well is in the ECMC Orphaned Well Program. The former Operator's bond and other funding will be used to plug and abandon (PA) the well, and decommission, investigate, remediate, and reclaim the Location.

Operator anticipates the remaining cost for this project to be: \$ 62425

## 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.

The Colorado ECMC OWP will reclaim this oil and gas location in accordance with 1000 Series Rules including grading/recontouring of disturbed areas. The reclamation plan will be implemented under a separate scope of work. Final reclamation will be conducted per ECMC 1000 Series Rules and prioritized based on OWP ranking, project funding, and staff availability. The reclamation scope will include a plan to address and avoid any effect on reclamation from Table 915-1 inorganic and soil suitability for reclamation parameters.

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. \_\_\_\_\_

Actual Spill or Release date, or date of discovery. \_\_\_\_\_

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 03/26/2025

Proposed site investigation commencement. 04/01/2025

Proposed completion of site investigation. 04/30/2025

### 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:

\_\_\_\_\_

## OPERATOR COMMENT

The former OMIMEX PETROLEUM INC - 66190 NIEBUR #10-33-5-43 gas well (API #05-125-10155) NIEBUR-65N43W 33NWSE (OWP) (Location ID #337397) is in the ECMC Orphaned Well Program ("OWP"). This well was plugged and abandoned (PA) as part of an emergency plugging project to maintain well control and prevent potential spills. Flowline decommissioning will be performed during a future OWP project with flowlines either removed or abandoned-in-place following landowner consultation and Director approval. Groundwater is estimated at 39 feet bgs. Pre- and post-plugging methane monitoring did not detect leaks. This Form 27 Supplemental presents the cut and cap sampling results. Soils screened using a photoionization detector (PID) from the four sidewalls ranged from 2.44 ppm to 8.60 ppm (East wall at 7 ft bgs) and the floor headspace PID reading, 3.07 ppm (9 ft bgs). Results for total petroleum hydrocarbons (TPH); benzene, toluene, ethylbenzene, xylenes (BTEX); 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, and PAH compounds were not detected at or above the respective laboratory reporting limits. Arsenic was detected at 1.44 mg/kg in sidewall soil sample, 337397 WH-EW-S2 at 7 ft bgs, but was not detected above the laboratory reporting limit in the floor soil sample, 337397 WH-S1 at 9 ft bgs. Barium was detected in both soil samples, and lead and nickel were detected in the sidewall soil sample, at concentrations below the Table 915-1 protection of groundwater soil screening levels (SSL). Analytical results for pH reported at 9.22 standard units (s.u.) in sidewall soil sample 337397 WH-EW-S2 at 7 ft and 10.2 s.u. in floor soil sample 337397 WH-S1 at 9 ft bgs. Both of these pH results are above the Table 915-1 upper pH level of 8.3 s.u. The results for EC and SAR were reported below their respective Table 915-1 soil suitability for reclamation levels in both samples. The OWP requests to use Table 915-1 residential SSL and to keep remediation project #40205 active pending the flowline decommissioning results. Confirmation soil samples will be collected beneath the flowline ends and areas where E&P waste impacts are most likely to occur. Site-specific background soil samples will be collected and submitted for Table 915-1 metals and soil suitability for reclamation parameters. Site investigation and remediation will proceed under Remediation Project #40205.

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: 05/27/2025

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: 10/21/2025

Remediation Project Number: 40205

## COA Type

## Description

	OWP shall fully populate the implementation schedule in accordance with Rule 913.d on the subsequent Supplemental Form 27. The "Date of Surface Owner notification/consultation" information is missing.
	If a spill/release of produced fluids or E&P waste causes an impact from inorganic constituents to soil, OWP should perform sampling and analysis to fully delineate the lateral and vertical extent of those impacts.
	OWP shall clarify if flowline decommissioning will be conducted on a future remediation project.
	ECMC does not approve the use of Residential Soil Screening Levels at this time. OWP shall complete vertical and horizontal delineation and then the request will be reevaluated.  "Groundwater is estimated at 39 feet bgs."
4 COAs	

## 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

404216420	INVESTIGATION/REMEDIATION WORKPLAN (SUPPLEMENTAL)
404218519	MONITORING REPORT
404218521	MONITORING REPORT
404218523	SITE INVESTIGATION REPORT
404218691	ANALYTICAL RESULTS
404398876	FORM 27-SUPPLEMENTAL-SUBMITTED

Total Attach: 6 Files

## General Comments

**User Group**

**Comment**

**Comment Date**

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

Total: 0 comment(s)