FORM
27
Rev 5/22

# State of Colorado
# Energy & Carbon Management Commission

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Report taken by: Alexander Ahmadian

## Site Investigation and Remediation Workplan (Initial 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 INFORMATON

Name of Operator: PAINTED PEGASUS PETROLEUM LLC Operator No: 10711
Address: 16820 BARKER SPRINGS RD #521
City: HOUSTON State: TX Zip: 77084
Contact Person: James Hix - East OWP EPS Email: james.hix@state.co.us

**Phone Numbers**
Phone: (303) 894-2100
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## PROJECT, PURPOSE & SITE INFORMATION

### PROJECT INFORMATION

Remediation Project #: 43119 Initial Form 27 Document #: 404370471

### 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.
- [x] 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: LOCATION Facility ID: 320088 API #: County Name: ADAMS
Facility Name: JOY-61S64W 4NENW (OWP) Latitude: 39.997810 Longitude: -104.559754
** correct Lat/Long if needed: Latitude: Longitude:
QtrQtr: NENW Sec: 4 Twp: 1S Range: 64W Meridian: 6 Sensitive Area? No

### SITE CONDITIONS

General soil type - USCS Classifications ML
Most Sensitive Adjacent Land Use Residential
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 are five DWR Permitted Water Wells plotted within 1/4 mile. Two wells were constructed, one permit on hold, and two permits were canceled. DWR Permit #293-G Receipt 0471080 (Geoexchg, 2001) [Hole Depth = 240 ft bgs ~350 ft NW]; DWR Permit #10043556 Receipt #10043556 [SWL = 82 ft bgs, DTW = 160 to 330 ft bgs, Top of Perf Casing = 160 ft bgs, TD = 360 ft bgs, ~540 ft NW]; DWR Permit #53484-F Receipt 0456220 (2007 Canceled) [Denver Fm Top 5065 ft elev, 65 ft bgs, ~360 ft E-SE]; DWR Permit #225933- Receipt #0460175 (Domestic 2001) [SWL = 100 ft bgs, Top of Perf Casing = 180 ft bgs, TD = 380 ft bgs, ~820 ft SE]; Est GW Depth = 82 ft bgs. Horse Creek Reservoir ~1020 ft W. There are no mapped surface water features w/in 1/4 mile. Nearest surface water is a pond = 2320 ft SW, There are no NWI Mapped Wetlands w/in 1/4 mile. Location lies within CPW Mapped HPH: Bald Eagle Roost Site (Rule 309.3.1) Residential Building Units (RBU) located ~330 ft SE; ~405 ft NW; 810 ft S,

# SITE INVESTIGATION PLAN

## TYPE OF WASTE:

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

## 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 Well/Location is in the ECMC Orphaned Well Program ("OWP"). This Form 27 Initial presents the site investigation and remediation workplan for decommissioning activities, specifically cut and cap sampling following plugging and abandonment (PA) of the well. Pre- and post-plugging methane monitoring will be performed with post-methane monitoring conducted at least five days following PA. Soils will be observed and field screened from the four sidewalls and floor of the wellhead excavation for evidence of E&P Waste impacts. At a minimum, a soil sample collected from the sidewall exhibiting the highest degree of E&P Waste impacts, or the expected downgradient sidewall in the absence of impact, and the wellhead excavation floor sample will be submitted to an accredited environmental laboratory for analysis of full Table 915-1 parameters. Additionally, this Form 27 Initial presents the decommissioning activities for the associated tank battery. Confirmation soil samples will be collected from beneath the key pieces of production equipment, including but not limited to, the aboveground storage tanks (AST), produced water vessel (PWV), separator, manifolds, and beneath flowline risers. Soil samples will be submitted for full Table 915-1 parameters. Site-specific background soil samples collected from undisturbed areas, upgradient or cross gradient from historic oil and gas operations, will be submitted for analysis of Table 915-1 metals and soil suitability for reclamation parameters. Samples will be collected and analyzed in accordance with Colorado ECMC 900 Series Rules and applicable Guidance Documents.

## PROPOSED SAMPLING PLAN

### Proposed Soil Sampling

[X] 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

### 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 0

Number of soil samples exceeeding 915-1 _____

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

Approximate areal extent (square feet) _____

**NA / ND**

_____ Highest concentration of TPH (mg/kg) _____

_____ Highest concentration of SAR _____

BTEX > 915-1 _____

Vertical Extent > 915-1 (in feet) _____

**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?

☐ 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?

# REMEDIAL ACTION PLAN

## 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 E&P Waste impacted soils will be excavated, temporarily stockpiled on location, and hauled to a commercial disposal facility.

## 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.

If E&P Waste impacted soils are encountered, approximately 10 cubic yards of the E&P Waste 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**

_____ Bioremediation ( or enhanced bioremediation )

_____ Chemical oxidation

☐ **Ex Situ**

_____ Excavate and offsite disposal

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 A Form 27 Supplemental submitted within 90 days from date decommissioning documents are received.

☐ **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 Well/Location is in the ECMC Orphaned Well Program. The former Operator's bond(s)/surety and other funding will be used to plug and abandon (PA) the well and to investigate, remediate, and reclaim the Location.

Operator anticipates the remaining cost for this project to be: $ 26000

## 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: _____

# 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). 11/21/2025

Proposed site investigation commencement. 11/24/2025

Proposed completion of site investigation. _____

## 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 PAINTED PEGASUS PETROLEUM LLC - 10711 JOY #21-4 (OWP) oil and gas well (API #05-001-07983) JOY-61S64W 4NENW (Location ID #320088) is in the ECMC Orphaned Well Program ("OWP"). This Form 27 Initial presents the site investigation and remediation workplan for decommissioning activities, specifically the wellhead cut and cap soil sampling. Pre- and post-plugging methane monitoring will be performed. Wellhead excavation soils from the four sidewalls and floor will be observed and field screened for evidence of E&P Waste impacts. At a minimum, a soil sample from the sidewall exhibiting the highest degree of E&P Waste impact, or the expected downgradient sidewall in the absence of impacts, and the soil sample from the excavation floor will be submitted to an accredited environmental laboratory for analysis of full Table 915-1 parameters. Additionally, soil samples will be collected from beneath the key pieces of production equipment, including but not limited to, aboveground storage tanks (AST), produced water vessels (PWV), separators, manifolds, and beneath flowline risers. A decommissioning report(s) and a laboratory secured stand-alone PDF copy of the analytical report(s) will be provided to the OWP. A Form 27 Supplemental will be submitted within 90 days from the date the OWP receives these documents.

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: 10/22/2025  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: Alexander Ahmadian  Date: 11/18/2025

Remediation Project Number: 43119

| COA Type | Description |
|---|---|
| | Location lies within the recommended buffer of a Bald Eagle Roost. Please note that Approval of this Form 27 does not supersede any Federal, State or Local regulations pertaining to the Migratory Bird Treaty Act. ECMC recommends consultation with Colorado Parks and Wildlife. |
| 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 |
|---|---|
| 404370471 | FORM 27-INITIAL-SUBMITTED |
| 404370543 | MAP |
| 404370544 | SITE MAP |

Total Attach: 3 Files

## General Comments

| User Group | Comment | Comment Date |
|---|---|---|
| | | Stamp Upon Approval |

Total: 0 comment(s)