

State of Colorado Oil and Gas Conservation Commission

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402467329

Receive Date:

08/17/2020

Report taken by:

Jim Hughes

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 COGCC 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.

Refer to Rules 340, 905, 906, 907, 908, 909, and 910

OPERATOR INFORMATION

Name of Operator: CATAMOUNT ENERGY PARTNERS LLC	Operator No: 10464	Phone Numbers
Address: 1801 BROADWAY #1000		Phone: (720) 484-2346
City: DENVER State: CO Zip: 80202		Mobile: (303) 981-2921
Contact Person: Reed Fischer	Email: rfischer@catamountep.com	

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 15679 Initial Form 27 Document #: 402416095

PURPOSE INFORMATION

- | | |
|--|--|
| <input type="checkbox"/> 901.e. Sensitive Area Determination | <input type="checkbox"/> 909.c.(5), Rule 910.b.(4): Remediation of impacted ground water |
| <input checked="" type="checkbox"/> 909.c.(1), Rule 905: Pit or PW vessel closure | <input type="checkbox"/> Rule 909.e.(2)A.: Notice completion of remediation in accordance with Rule 909.b. |
| <input type="checkbox"/> 909.c.(2), Rule 906: Spill/Release Remediation | <input type="checkbox"/> Rule 909.e.(2)B.: Closure of remediation project |
| <input type="checkbox"/> 909.c.(3), Rule 907.e.: Land treatment of oily waste | <input type="checkbox"/> Rule 906.c.: Director request |
| <input type="checkbox"/> 909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure | <input type="checkbox"/> Other _____ |

SITE INFORMATION

Y Multiple Facilities (in accordance with Rule 909.c.)

Facility Type: PIT	Facility ID: 115630	API #: _____	County Name: LA PLATA
Facility Name: MCELVAIN HARMON 1	Latitude: 37.091729	Longitude: -107.763857	
** correct Lat/Long if needed: Latitude: 37.091740		Longitude: -107.763230	
QtrQtr: SENW	Sec: 19	Twp: 33N	Range: 8W Meridian: N Sensitive Area? No
Facility Type: PIT	Facility ID: 115631	API #: _____	County Name: LA PLATA
Facility Name: MCELVAIN DAKOTA 1	Latitude: 37.092739	Longitude: -107.764015	
** correct Lat/Long if needed: Latitude: 37.092680		Longitude: -107.764000	
QtrQtr: CNW	Sec: 19	Twp: 33N	Range: 8W Meridian: N Sensitive Area? No
Facility Type: PIT	Facility ID: 306935	API #: _____	County Name: LA PLATA
Facility Name: IGS-N33N9W 24SWNE	Latitude: 37.091779	Longitude: -107.774205	
** correct Lat/Long if needed: Latitude: 37.091540		Longitude: -107.774270	
QtrQtr: SWNE	Sec: 24	Twp: 33N	Range: 9W Meridian: N Sensitive Area? No

SITE CONDITIONS

General soil type - USCS Classifications SP

Most Sensitive Adjacent Land Use Rangeland

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

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	< 10 yards	Surface indication of a former pit location

INITIAL ACTION SUMMARY

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

Catamount has hired Envirotech Inc. out of Farmington, New Mexico to visit and sample each site.

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):

Soil samples will be obtained by Envirotech and consist of a tentative 2 samples, one from the pit area and one background. Additional samples will be collected if delineation activities are warranted. Pit samples will be collected from the center of the pit. A hand auger will be advanced a minimum of 6' below the surface to ensure a representative sample. If contamination levels are below action limits on field screening activities a confirmation sample will be collected from the shallowest depth of native soils. The samples will be submitted and tested for the constituents listed on the COGCC Table 910-1. If contamination levels are above field screening action limits the contaminated area will be vertically and horizontally delineated in the four cardinal directions to meet points of compliance.

Proposed Groundwater Sampling

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

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):

Catamount will soil sample under indicated pit area

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 3

Number of soil samples exceeding 910-1 3

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

Approximate areal extent (square feet) 625

NA / ND

-- Highest concentration of TPH (mg/kg) 127.4

-- Highest concentration of SAR 0.282

BTEX > 910-1 No

Vertical Extent > 910-1 (in feet) 6

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 910-1

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 910-1

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 (BG) samples were collected on both the McElvain Harmon 1 and McElvain Dakota 1 locations (1 sample/location). Each BG sample was obtained at an undisturbed point upgrade of the pit location. The background samples were analyzed for arsenic, the only constituent in any of the samples which exceeded Table 910-1 limits. Arsenic concentration for each BG sample of 2.31 mg/kg for the McElvain Harmon #1 and 1.11 mg/kg for the McElvain Dakota #1 were consistent w/concentrations found in the pit samples of 4.01 mg/kg for the McElvain Harmon #1 and 1.2 mg/kg for the McElvain Dakota #1.

☐ 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

Does this Supplemental Form 27A include changes to a previously approved Remedial Action Plan? Yes _____

SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

None of the samples analyzed indicated contamination levels exceeding those in Table 910 (or, as is the case with arsenic, analyzed sample levels are consistent with background levels) and there is no need to excavate and remove any of soil within the former pit area.

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.

There are no impacts to the soil or groundwater

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) _____ 10
_____ Name of Licensed Disposal Facility or COGCC Facility ID # _____
_____ Excavate and onsite remediation
_____ Land Treatment
_____ Bioremediation (or enhanced bioremediation)
_____ Chemical oxidation
_____ Other _____

Groundwater Remediation Summary

No _____ Bioremediation (or enhanced bioremediation)
No _____ Chemical oxidation
No _____ Air sparge / Soil vapor extraction
No _____ Natural Attenuation
No _____ 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.

REMEDATION PROGRESS UPDATE

PERIODIC REPORTING

Frequency: ☐ Quarterly ☐ Semi-Annually ☐ Annually ☐ Other _____

Report Type: ☐ Groundwater Monitoring ☐ Land Treatment Progress Report ☐ O&M Report

☐ Other _____

WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? No

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 _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

Volume of E&P Waste (liquid) in barrels _____

E&P waste (liquid) description _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

REMEDATION COMPLETION REPORT

REMEDATION COMPLETION SUMMARY

Is this a Final Closure Request for this Remediation Project? Yes

Do all soils meet Table 910-1 standards? Yes

Does the previous reply indicate consideration of background concentrations? Yes

Are the only residual soil impacts pH, SAR, or EC at depths greater than 3 feet below ground surface? _____

Does Groundwater meet Table 910-1 standards? Yes

Is additional groundwater monitoring to be conducted? No

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 fences surrounding the former pit sites will be removed and the pit area brought to grade.

Is the described reclamation complete? No

Does the reclamation described herein constitute interim or final reclamation of the Oil and Gas Location?

☐ Interim? ☐ Final?

Did the Surface Owner approve the seed mix? No

If NO, does the seed mix comply with local soil conservation district recommendations? Yes

IMPLEMENTATION SCHEDULE

PRIOR DATES

Date of Surface Owner notification/consultation, if required. _____

Actual Spill or Release date, if known. _____

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). _____

Date of commencement of Site Investigation. 06/30/2020

Date of completion of Site Investigation. 07/29/2020

REMEDIAL ACTION DATES

Date of commencement of Remediation. _____

Date of completion of Remediation. _____

SITE RECLAMATION DATES

Date of commencement of Reclamation. 09/03/2020

Date of completion of Reclamation. 09/04/2020

OPERATOR COMMENT

The COGCC conducted an inspection of Catamounts McElvain Harmon #1 and IGS 405 locations on 6/1/20. The inspections noted the indication of a pit with "unknown status" on each location and required corrective actions to formally close each pit. Catamount determined that another recently acquired and operated site (McElvain Dakota #1) also involved a pit of "unknown status" and therefore included this site on our multi-site Initial Form 27 submittal. It has subsequently been determined that the IGS 405 had no pit so that this subsequent Form 27 submittal, documenting the investigation/sampling results and requesting final closure only pertains to the McElvain Harmon #1 and McElvain Dakota #1 sites.

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

Signed: Reed Fischer

Title: Contract Ops Engineer

Submit Date: 08/17/2020

Email: rfischer@catamountep.com

Based on the information provided herein, this Application for Site Investigation and Remediation Workplan complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: Jim Hughes

Date: 08/18/2020

Remediation Project Number: 15679

COA Type

Description

	Based on review of the information provided, it appears that no further action is necessary at this time and COGCC approves the closure request. Should conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards, or, if groundwater is found to be significantly impacted, further investigation and/or remediation activities may be required at the site.
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Attachment Check 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

402467329	FORM 27-SUPPLEMENTAL-SUBMITTED
402467339	ANALYTICAL RESULTS
402467341	ANALYTICAL RESULTS

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)