

On 9/9/2021, Reclamation Specialist Trujillo and West Environmental Protection Specialist conducted a joint inspection regarding Remediation Project #4620 at Laramie Energy LLCs' Cascade Creek 697-09-61 Location in Garfield County, Colorado.

This inspection is also a followup to:

#696201787 dated 9/16/2020;

#696201980 dated 11/2/2020;

#696202122 dated 12/8/2020;

#696202928 dated 7/12/2021;

and #696203107 dated 8/23/2021 to document compliance with the following corrective actions on the Location: 1002.f: Stormwater

This inspection is also a follow up in response to Resolution Form #402803358 stating "CA Complete".

It was observed in this inspection that the Location remains out of compliance with COGCC Rules and corrective actions.

The following reclamation compliance issues were observed in this inspection regarding Remediation Project #4620:
606.c / 1004.e: Weed Management

A separate inspection report will be issued by the COGCC Environmental Group for observed remediation issues.

Refer to the "Location", "Reclamation" and "Stormwater" sections of this inspection report for additional details.

Refer to the photo-documentation of the observed compliance issues attached to this report.

Any corrective action(s) from previous inspections that have not been addressed are still applicable.

A follow up inspection on this site will be conducted to ensure the compliance issues have been corrected to comply with COGCC rules.

Location

Overall Good:

Emergency Contact Number:

Comment:

Corrective Action:

Date: _____

Good Housekeeping:

Type	WEEDS		
Comment:	<p>It was observed in this inspection that the management of noxious weeds and undesirable plant species is inadequate within the Rem. #4620 project area and the Location; Noxious weed species (Canada thistle, Musk thistle, Bull thistle, Common Mullein, Houndstongue) were observed in high densities within areas disturbed during remediation efforts; Bull thistle, Houndstongue and Mullein debris observed on interim areas of the Location.</p> <p>Many plants were observed to have matured, and to have dispersed their seeds. Ongoing weed management is required until the project area / Location meets COGCC 1004 reclamation standards.</p>		
Corrective Action:	<p>Conduct weed management; all remaining dead Undesirable Plant Species left after management activities have been performed is considered debris, and is required to be removed in accordance with Rule 606.a.</p> <p>Continue to monitor and manage areas for noxious weeds until Remediation Project has been closed, and the project area meets 1004 standards.</p>		Date: <u>09/24/2021</u>

Overall Good:

Spills:

Type	Area	Volume		

In Containment: No

Comment:

Multiple Spills and Releases?

Venting:

Yes/No			
Comment:			
Corrective Action:			Date:

Flaring:

Type			
Comment:			
Corrective Action:			Date:

Inspected Facilities

Facility ID: 335889 Type: LOCATION API Number: - Status: AC Insp. Status: RI

Environmental

Spill/Remediation:

Comment: [Remediation Project #4620](#)

Corrective Action:

Date: _____

Emission Control Burner (ECB): _____

Comment:

Pilot: _____

Wildlife Protection Devices (fired vessels): _____

Reclamation - Storm Water - Pit

Interim Reclamation:

Date Interim Reclamation Started: _____ Date Interim Reclamation Completed: _____

Land Use: RANGELAND

Comment: _____

1002 SITE PREPARATION AND STABILIZATION

1002a. FENCING _____

Comment _____

Corrective Action _____

Date _____

1002b. SOIL REMOVAL AND SEGREGATION _____

Comment _____

Corrective Action _____

Date _____

1002c. PROTECTION OF SOILS _____

Comment _____

Corrective Action _____

Date _____

1002E. SURFACE DISTURBANCE MINIMIZATION _____

Comment _____

Corrective Action _____

Date _____

1003a. Waste and Debris removed? _____

Comment _____

Corrective Action _____

Date _____

Unused or unneeded equipment onsite? _____

Comment _____

Corrective Action _____

Date _____

Pit, cellars, rat holes and other bores closed? _____

Comment _____

Corrective Action _____

Date _____

Guy line anchors marked? _____

Comment _____

Corrective Action _____

Date _____

1003b. Area no longer in use? _____ Production areas stabilized ? _____
 1003c. Compacted areas have been cross ripped? _____
 1003d. Drilling pit closed? _____ Subsidence over on drill pit? _____
 Cuttings management: _____
 1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? _____
 Production areas have been stabilized? _____ Segregated soils have been replaced? _____

RESTORATION AND REVEGETATION

Cropland

Top soil replaced _____ Recontoured _____ Perennial forage re-established _____

Non-Cropland

Top soil replaced _____ Recontoured _____ 80% Revegetation _____

1003e. INTERIM VEGETATION TRANSECT
 TRANSECT RESULTS OF DISTURBED AREA% _____
 TRANSECT RESULTS OF REFERENCE AREA% _____
 TOTAL % OF DESIRABLE VEGETATION COVER _____
 VEGETATIVE COVER _____

1003 f. Weeds Noxious weeds? _____ F _____

Comment

Corrective Action

Date _____

Overall Interim Reclamation

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: _____ Date Final Reclamation Completed: _____

Final Land Use: RANGELAND _____

Reminder: _____

Comment:

Well plugged _____ Pit mouse/rat holes, cellars backfilled _____

Debris removed _____ No disturbance /Location never built _____

Access Roads Regraded _____ Contoured _____ Culverts removed _____

Gravel removed _____

Location and associated production facilities reclaimed _____ Locations, facilities, roads, recontoured _____

Compaction alleviation _____ Dust and erosion control _____

Non cropland: Revegetated 80% _____ Cropland: perennial forage _____

Weeds present _____ Subsidence _____

1004.d. FINAL VEGETATION TRANSECT
 TRANSECT RESULTS OF DISTURBED AREA% _____
 TRANSECT RESULTS OF REFERENCE AREA% _____
 TOTAL % OF DESIRABLE VEGETATION COVER _____
 VEGETATIVE COVER _____

Comment:

Corrective Action: <input type="text"/>	Date: <input type="text"/>					
Overall Final Reclamation <input type="checkbox"/>	Well Release on Active Location <input type="checkbox"/>					
Multi-Well Location <input type="checkbox"/>						
Storm Water:						
Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment
Comment: <input type="text" value="See 'Comment #1' under 'COGCC Comments' at the end of this report."/>						Date: <u>10/02/2020</u>
Corrective Action: <input type="text" value="Install or repair required BMPs per Rule 1002.f.(2)C. Ensure control measures are adequate for the site's conditions, installed in accordance with good engineering practices, and maintained in proper functioning condition."/>						
Pits: <input type="checkbox"/> NO SURFACE INDICATION OF PIT						

COGCC Comments		
Comment	User	Date
<p>COMMENT #1: STORMWATER</p> <p>Previous inspection observed that Operator implemented erosion control blankets on the slopes of the north and west end of the Location; however, control measures to protect and stabilize a large section of cut slope remained missing or insufficient, and that work was incomplete. Inspection required Operator to submit an update on a FIRR as to when BMPs to stabilize the remaining slopes will be implemented and work completed.</p> <p>Operator submitted "CA Complete" Resolution #402803358 showing that "Liquid Nutrients" were applied to the exposed cut slopes; Operator has attempted this same, or similar control method on the slopes in this past, and it was determined to be inadequate for the site's conditions.</p> <p>It was observed in this inspection that stabilization of the cut slope on the Location remains inadequate; control measures to protect, and stabilize the slopes remain missing or insufficient.</p> <p>Corrective action has not been addressed; original CA and date remains applicable.</p>	trujilloam	09/10/2021
<p>Contine to monitor and manage stormwater within the Remediation Project area; ensure BMPs are maintained in proper funcitoning condition per good engineering practices until 1004 standards have been met, in accordance with Rule 1002.f.</p>	trujilloam	09/10/2021

Attached Documents

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
402807979	INSPECTION SUBMITTED	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=5528579
696203153	Inspection Photos	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=5528578