

Stormwater Inspection Report



Operator:	Laramie Energy, LLC
Project:	Cascade Creek
Location:	CC 632-13-22 and CC 604-12-13 Annex Pads
Date:	Monday, June 7, 2021
Weather:	Clear, Breezy, 93°, Lo 56°

Type of Inspection Report	14-Day Routine	Monthly Routine	Post-Storm	Corrective Action	Winter Exclusion	Stabilization Complete	Site Review
				X			

Phase(s) of Construction Inspected	No Activity	Clear & Grade	Facility Installation	Drilling Operations	Reclamation	Acres of Disturbance Inspected
	X					0

Stormwater Compliance Questions		YES	NO	N/A
1	Any BMPs Fail or Require Maintenance?		X	
2	Any Issues Identified Requiring the Installation of Additional BMPs?	X		
3	Any Sediment or Other Pollutants Discharged Outside Project Boundaries?		X	
4	Any BMPs Repaired or Maintained?	X		
5	Any New BMPs Installed?		X	
6	Any Hazardous Materials Spilled or Leaked?		X	
7	Any Deviation from the Minimum Inspection Schedule?		X	

Comments / Descriptions / Explanations
<p>Due to the recent warm temperatures, the cut slope on the CC 632-13-22 pad was irrigated with 1,000 gallons of fresh water. The cut slope has been recently seeded and young plants continue to need soil moisture to develop adequately to be able to go dormant during adverse conditions. The BMP crews also began addressing issues on the CC 604-12-13 Annex location that are identified in COGCC Document #696202124. Desirable vegetation is beginning to establish over the entire location. EI recommends avoiding activities which would damage what vegetation is established. EI would rather conduct additional seeding activities to increase plant densities in those portions of the location that remain barren or sparse. The steep portion of the fill slope was previously covered in jute netting. This material is fully biodegradable and is appropriately deteriorating at this time. The crew broadcast 50 pounds of QuickGuard and 22 pounds of Upper Cascade Seed Mix over portions of the location currently lacking in appropriate plant densities. Broadcast seed was hand raked to incorporate into the soils where it could be performed safely. The crews also applied 1,700 gallons of liquid soil amenities and nutrients to the cut slope to improve growing conditions on extremely difficult soils.</p>

Photo 1



Irrigating Cut Slope on CC 632-13-22 Pad

Photo 2



Desirable Vegetation Growing through Jute Netting on CC 604-12-13 Annex Pad

Photo 3



Desirable Vegetation Growing on Upper Section of Fill Slope on CC 604-12-13 Annex Pad

Photo 4



Seeding Areas with Weak Stands on the CC 604-12-13 Annex Pad

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

Inspector Signature

6/7/2021

Date of Signature

Part I.A.3.f. Compliance Signature Requirement

"I verify that, to the best of my knowledge and belief, all corrective action and maintenance items identified during the inspection are complete, and the site is currently in compliance with the permit."

Stormwater Manager Certification Signature

Stormwater Inspection Report



Operator:	Laramie Energy, LLC
Project:	Cascade Creek
Location:	CC 629-23-42 and CC 604-12-13 Annex Pads
Date:	Tuesday, June 8, 2021
Weather:	Clear, Breezy, 93°, Lo 56°

Type of Inspection Report	14-Day Routine	Monthly Routine	Post-Storm	Corrective Action	Winter Exclusion	Stabilization Complete	Site Review
				X			

Phase(s) of Construction Inspected	No Activity	Clear & Grade	Facility Installation	Drilling Operations	Reclamation	Acres of Disturbance Inspected
	X					0

Stormwater Compliance Questions		YES	NO	N/A
1	Any BMPs Fail or Require Maintenance?	X		
2	Any Issues Identified Requiring the Installation of Additional BMPs?		X	
3	Any Sediment or Other Pollutants Discharged Outside Project Boundaries?		X	
4	Any BMPs Repaired or Maintained?	X		
5	Any New BMPs Installed?		X	
6	Any Hazardous Materials Spilled or Leaked?		X	
7	Any Deviation from the Minimum Inspection Schedule?		X	

Comments / Descriptions / Explanations
<p>With continued warm weather, one BMP crew continued to irrigate lower elevation seedings to prevent young plants from burning up prior to establishing. Today the crew irrigated the Cascade Creek 629-23-42 cut slope. 1,000 gallons of fresh water was applied. The crew resumed operations on the Cascade Creek 604-12-13 Annex location afterwards. Efforts continued to address issues identified in COGCC Document #696202124. A skid steer was used to fill in holes identified in Photos #15 through #17. Areas with weak stands of vegetation were seeded with 6 pounds of Upper Cascade Seed Mix and harrowed or hand raked to incorporate seed into the soil. Seeded areas were treated with 1,000 gallons of liquid soil amenities and nutrients to enhance germination rate and plant development.</p>

Photo 1



Seed Germinating on the CC 629-23-42 Pad

Photo 2



Irrigating the CC 629-23-42 Pad

Photo 3



Filling In Areas that Settled on CC 604-12-13 Annex

Photo 4



Applying Liquid Soil Amenities on CC 604-12-13 Annex

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

Inspector Signature

6/8/2021

Date of Signature

Part I.A.3.f. Compliance Signature Requirement

"I verify that, to the best of my knowledge and belief, all corrective action and maintenance items identified during the inspection are complete, and the site is currently in compliance with the permit."

Stormwater Manager Certification Signature

Stormwater Inspection Report



Operator:	Laramie Energy, LLC
Project:	Cascade Creek
Location:	CC 629-23-42 and CC 604-12-13 Annex Pads
Date:	Monday, June 14, 2021
Weather:	Hazy, Light Wind, 101°, Lo 56°

Type of Inspection Report	14-Day Routine	Monthly Routine	Post-Storm	Corrective Action	Winter Exclusion	Stabilization Complete	Site Review
				X			

Phase(s) of Construction Inspected	No Activity	Clear & Grade	Facility Installation	Drilling Operations	Reclamation	Acres of Disturbance Inspected
	X					0

Stormwater Compliance Questions		YES	NO	N/A
1	Any BMPs Fail or Require Maintenance?	X		
2	Any Issues Identified Requiring the Installation of Additional BMPs?	X		
3	Any Sediment or Other Pollutants Discharged Outside Project Boundaries?		X	
4	Any BMPs Repaired or Maintained?	X		
5	Any New BMPs Installed?	X		
6	Any Hazardous Materials Spilled or Leaked?		X	
7	Any Deviation from the Minimum Inspection Schedule?		X	

Comments / Descriptions / Explanations
<p>Two BMP crews resumed operations in the Cascade Creek Project Area. Temperatures remain, and are forecast, to reach into the upper 90's and low 100's. 1,975 gallons of liquid amenities and nutrients were applied to the cut slope on the CC 604-23-42 pad to help promote plant development. The crews worked on the CC 697-12-13 Annex location after completing the application.</p> <p>1,975 gallons of fresh water was applied to the cut slope recently seeded on the CC 604-12-13 Annex pad to help prevent new seed from drying out. 500 pounds of 12-12-12 granular fertilizer was broadcast over the location's fill slope. A previous soil sample indicated that the fill slope was deficient in nutrients, especially nitrogen. A mini-ex was used to begin installing BMPs below the culvert outlet along the CC 604-12-13 Annex access road. A mini-ex and skid steer were also used to begin installing a containment berm below the location's cut slope.</p>

Photo 1



Applying Additional Water, Nutrients, and Soil Amenities on CC 629-23-42 Cut Slope

Photo 2



Installing Outlet Protection on Culvert on CC 604-12-13 Annex Access Road

Photo 3



Irrigating Previous Seeding on the CC 604-12-13 Annex Pad

Photo 4



Installing Containment Berm Below CC 604-12-13 Annex Cut Slope

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

6/14/2021

Inspector Signature

Date of Signature

Part I.A.3.f. Compliance Signature Requirement

"I verify that, to the best of my knowledge and belief, all corrective action and maintenance items identified during the inspection are complete, and the site is currently in compliance with the permit."

Stormwater Manager Certification Signature

Stormwater Inspection Report



Operator:	Laramie Energy, LLC
Project:	Cascade Creek
Location:	CC 604-41-32 & CC 604-12-13 Annex Locations
Date:	Tuesday, June 15, 2021
Weather:	Hazy, Light Wind, 103°, Lo 57°

Type of Inspection Report	14-Day Routine	Monthly Routine	Post-Storm	Corrective Action	Winter Exclusion	Stabilization Complete	Site Review
				X			

Phase(s) of Construction Inspected	No Activity	Clear & Grade	Facility Installation	Drilling Operations	Reclamation	Acres of Disturbance Inspected
	X					0

Stormwater Compliance Questions		YES	NO	N/A
1	Any BMPs Fail or Require Maintenance?	X		
2	Any Issues Identified Requiring the Installation of Additional BMPs?	X		
3	Any Sediment or Other Pollutants Discharged Outside Project Boundaries?		X	
4	Any BMPs Repaired or Maintained?	X		
5	Any New BMPs Installed?	X		
6	Any Hazardous Materials Spilled or Leaked?		X	
7	Any Deviation from the Minimum Inspection Schedule?		X	

Comments / Descriptions / Explanations
<p>Two BMP crews continued irrigating seedings and installing and maintaining BMPs in the Cascade Creek Project Area. 1,000 gallons of fresh water was applied to the fill slope on the Cascade Creek 604-41-32 pad to help prevent young plants from drying out. The crews were also able to complete operations on the CC 604-12-13 Annex pad and access road. One 6-inch flex hose outlet was installed near the pad entrance to allow stormwater to flow safely down the fill slope. The containment berm was completed below the cut slope. The crews also maintained silt fence installed around pad perimeter.</p>

Photo 1



Applying Additional Water, Nutrients, and Soil Amenities on CC 604-41-32 Fill Slope

Photo 2



Installing Flex Hose Outlet on CC 604-12-13 Annex Pad

Photo 3



Mending Silt Fence Installed on CC 604-12-13 Annex Pad

Photo 4



Installing Containment Berm Below CC 604-12-13 Annex Cut Slope

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

6/15/2021

Inspector Signature

Date of Signature

Part I.A.3.f. Compliance Signature Requirement

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Stormwater Manager Certification Signature