

Stormwater Inspection Report

Operator:	Laramie Energy, LLC
Project:	Cascade Creek
Location:	Cascade Creek 697-16-28 Pad
Date:	Wednesday, November 3, 2021
Weather:	Partly Cloudy, Light Wind, Hi 60°, Lo 31°



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 began addressing issues on Cascade Creek 697-16-28 pad which were identified in COGCC Document #696203156 and/or requested otherwise by COGCC. The crews hand dug a series of 24 small holes to verify the depth of topsoil present on the northeast portion of the location. It was determined that the average depth of topsoil was 4 inches. This equates to approximately 550 cubic yards of topsoil present on the northeast side of the pad. A mini-ex was used to install trenches above and below the issue identified as Photo #3. These trenches enable erosion control blankets to be anchored. The cut slope identified in Photo #3 was broadcast seeded with 23 pounds of tall wheatgrass and QuickGuard. 50 pounds of 12-12-12 granular fertilizer were also broadcast over the slope. The crews were able to begin the erosion control blanket installation, getting four 16-foot wide rolls installed.</p>

Photo 1



Hand Digging Test Holes on CC 697-16-28 Pad to Determine Topsoil Depth

Photo 2



Installing Trench to Anchor Bottom of Erosion Control Blanket Installation

Photo 3



Broadcasting Seed and Fertilizer over the Erosion Control Blanket Installation

Photo 4



Installing Erosion Control Blankets on the CC 697-16-28 Pad

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

Inspector Signature

11/3/2021

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:	Cascade Creek 697-16-28 Pad
Date:	Thursday, November 4, 2021
Weather:	Mostly Sunny, Light Wind, Hi 62°, Lo 30°

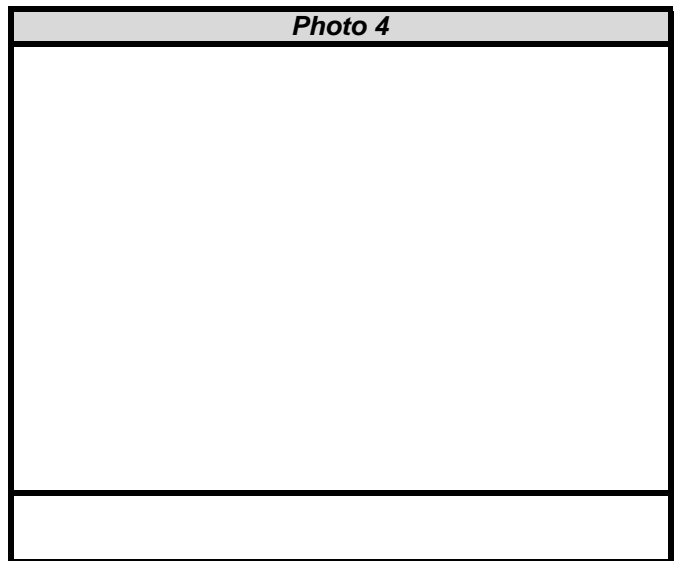
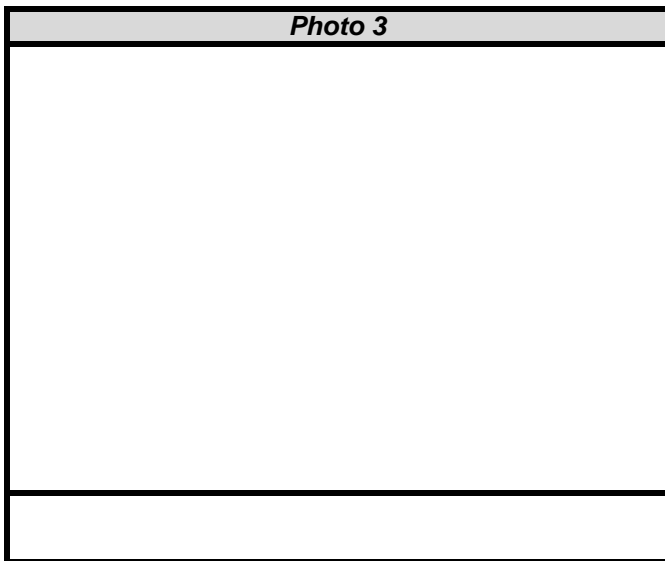


Type of Inspection Report	14-Day Routine	Monthly Routine	Post-Storm	Corrective Action	Winter Exclusion	Stabilization Complete	Site Review
				X			

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 addressing issues on the Cascade Creek 697-16-28 pad which were identified in COGCC Document #696203156. The crews were able to complete the erosion control blanket installation they started yesterday. An additional two rolls of erosion control blankets were installed and the installation of the previous four rolls completed.</p>



Inspector Name and Title	Mark Carlson, Environmental Inspector
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	11/4/2021
Inspector Signature	Date of Signature

Part I.A.3.f. Compliance Signature Requirement	
<i>"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."</i>	<div style="border: 1px solid black; height: 80px; margin-bottom: 10px;"></div> <p style="text-align: center; margin: 0;">Stormwater Manager Certification Signature</p>

Stormwater Inspection Report

Operator:	Laramie Energy, LLC
Project:	Cascade Creek
Location:	Cascade Creek 697-16-28 Pad
Date:	Friday, November 5, 2021
Weather:	Clear, Light Wind, Hi 66°, Lo 31°



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>One BMP crew continued to install BMPs to correct issues identified in COGCC Document #696203156 which relates to the Cascade Creek 697-16-28 pad. A mini-ex and skid steer were used to install an earthen berm below recently installed erosion control blankets. The crew also installed 250 feet of excelsior wattle to serve as a perimeter BMP below slopes called out in Photo #6.</p>	

Photo 1

South Elevation

±13569ft ▲ 0ft



Installing Earthen Berm below Erosion Control Blanket Installations on CC 697-16-28 Pad

Photo 2

East Elevation

±17ft ▲ 8250ft



Installing Earthen Berm below Erosion Control Blanket Installations on CC 697-16-28 Pad

Photo 3

North East Elevation

±20ft ▲ 8271ft



Installing Excelsior Wattle below Slopes on the CC 697-16-28 Pad

Photo 4

East Elevation

±26ft ▲ 8270ft



Installing Excelsior Wattle below Slopes on the CC 697-16-28 Pad

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

Inspector Signature

11/5/2021

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:	Cascade Creek 697-16-28 Pad
Date:	Monday, November 8, 2021
Weather:	Partly Cloudy, Light Wind, Hi 58°, Lo 28°



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	

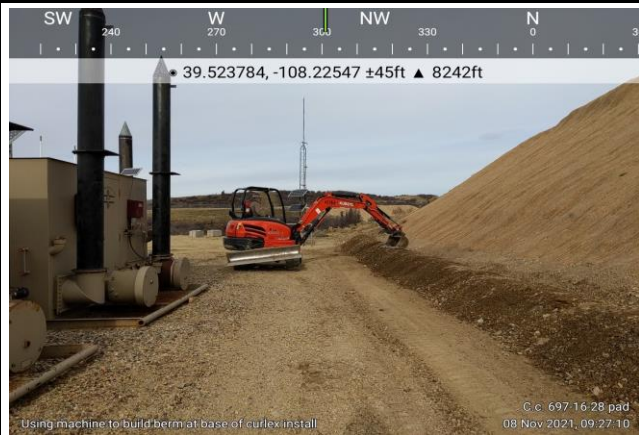
Comments / Descriptions / Explanations	
<p>Two BMP crews resumed BMP installations on the Cascade Creek 697-16-28 pad to rectify items identified in COGCC Document #696203156. A mulch blower was used to apply 31 weed-free certified straw bales over the fill slope identified in Photo #4 and Photo #6. A mini-ex was used to complete the earthen berm installation below the recently installed erosion control blankets addressing Photo #3. A mini-ex, skid steer, and dump trailer were employed to create a new flex pipe outlet to correct the erosion issue identified in Photo #4. This area is lower than adjacent ground, so a containment trench would not be able to redirect runoff. The crews also broadcast 107 pounds of QuickGuard and Upper Cascade Seed Mix and 750 pounds of 12-12-12 fertilizer over the portions of the pad that did not receive topsoil during redistribution. This will provide additional temporary and permanent stabilization to those areas called out in Photo #1.</p>	

Photo 1



Applying Straw Mulch to Fill Slope on the Cascade Creek 697-16-28 Pad

Photo 2



Compacting Earthen Berm below Erosion Control Blanket Installation on the CC 697-16-28 Pad

Photo 3



Delivering Material to Create a Flex Pipe Outlet on the Cascade Creek 697-16-28 Pad

Photo 4



Installing Flex Pipe Outlet on the Cascade Creek 697-16-28 Pad

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

Inspector Signature

11/8/2021

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:	Cascade Creek 697-16-28 Pad
Date:	Tuesday, November 9, 2021
Weather:	Partly Cloudy, Light Wind, Hi 55°, Lo 37°



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 completed BMP installations on the Cascade Creek 697-16-28 pad which addressed issues identified in COGCC Document #696203156. The flex pipe installation on the north end of the location was completed today. 38 feet of 6-inch flex pipe will allow runoff to safely travel down the fill slope and exit the location. An ATV and pasture harrow were used to incorporate recently broadcast seed on portions of the pad with limited vegetation return. An additional 20 pounds of QuickGuard and Upper Cascade Seed Mix were broadcast today as well. An additional 5 certified weed-free straw bales were applied to the fill slope as mulch.</p>	

Photo 1



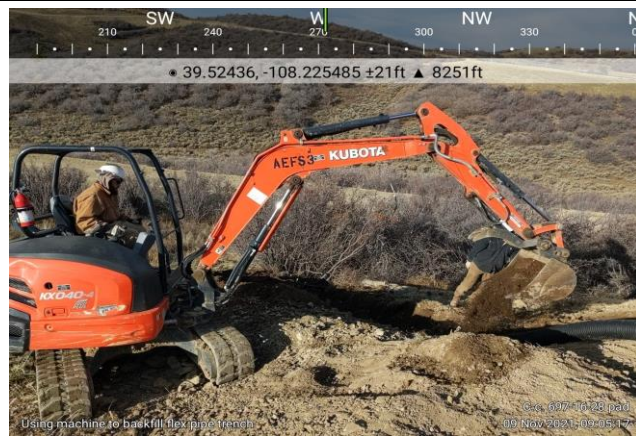
Installing Rock Armor Face on Flex Pipe Installation on Cascade Creek 697-16-28 Pad

Photo 2



Installing Flex Pipe on Cascade Creek 697-16-28 Pad

Photo 3



Installing Flex Pipe on Cascade Creek 697-16-28 Pad

Photo 4



Applying Straw Mulch to Cascade Creek 697-16-28 Pad

Inspector Name and Title

Mark Carlson, Environmental Inspector

Mark Carlson

Inspector Signature

11/9/2021

Date of Signature

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

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Stormwater Manager Certification Signature