

Stormwater Inspection Report



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|------------------|---|
| Operator: | Laramie Energy, LLC |
| Project: | Horseshoe Canyon Project Area |
| Location: | Mesa 18-10E Pad |
| Date: | Sunday, August 11, 2019 |
| Weather: | Scattered Showers, Light Wind, Hi 89°, Lo 61° |

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

| 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 Sediment or Other Pollutants Discharged into Waters of the State? | | X | |
| 5 | Any BMPs Repaired or Maintained? | | X | |
| 6 | Any New BMPs Installed? | X | | |
| 7 | Any New Portion of the Project Seeded or Mulched Since Last Inspection? | | X | |
| 8 | Any New Portion of the Project Treated with Herbicide Since Last Inspection? | | X | |
| 9 | Are Supplies and Materials Stored Properly? | X | | |
| 10 | Any Hazardous Materials Spilled or Leaked? | | X | |
| 11 | Are Vehicle Tracking Controls in Place and Functioning Properly? | | | X |
| 12 | Are Required Dust Control Measures in Place? | | | X |
| 13 | Any Deviation from the Minimum Inspection Schedule? | | X | |
| 14 | Any Corrective Actions Taken to Prevent Future Violations? | | X | |

| Comments / Descriptions / Explanations |
|---|
| <p>One BMP crew began completing corrective actions on the Mesa 18-10E pad to address issues listed in the COGCC inspection report dated 7/29/19 (Document #696600402). One additional dump trailer load of clean gravel was delivered to the site. Approximately 6 cubic yards of gravel is now staged on the pad. A mini-ex was mobilized in from the Castle Rock 18-4 pad and a skid steer was mobilized to the site from the DeBeque Water Station Facility.</p> <p>The vast majority of sediment discharged down the unaffiliated access identified in photos #17 and #18 appears to have originated from the road itself. Several significant erosion channels have formed in the road that are not associated with the Mesa 18-10E location. A skid steer and mini-ex was used to retrieve the sediment and the material was incorporated into the pad entrance to stabilize the material. Soils on location are very sandy with little organic matter. EI collected a soil sample to determine what macronutrients may be lacking. The sample was collected from one of the slopes identified as being unstable. This information will determine the amounts and types of soil amenities that will be applied when slopes are stabilized with seed and mulch. An earthen berm was installed at the pad entrance to direct stormwater to outlets. This installation is planned to be compacted with water and gravel tomorrow.</p> |

Photo 1



Erosion on Unaffiliated Access Road

Photo 2



Erosion on Unaffiliated Access Road

Photo 3



Sediment Removed from Adjacent Access Road

Photo 4



Earthen Berm Installed at Pad Entrance

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system design to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and Title of Inspector

Mark Carlson, Environmental Inspector

Mark Carlson

8/11/19

Certification Signature

Date of Signature