

Inspection Photos

08/08/2019

Operator: BISON OIL & GAS II LLC # 10661

Location ID: 454591

Weld County, CO

Aaron Trujillo

NE Reclamation Specialist

COGCC

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Photo 1: Photo taken from the south end of the location, facing northwest. Photos shows access road immediately at location, as well as topsoil stockpile on the south end of the location.

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Photo 2: See comments under photo 1. Photo also shows one of the three stormwater sediment traps on the south end of the location. Sediment traps have not been constructed in accordance with good engineering practices; traps do not appear to be sufficient in size to manage runoff from the 10+ acre pad, berms at traps remain unconsolidated. BMPs missing inlet armoring/protection. Rock aggregate used for outlet protection appears too large in size to slow stormwater discharge, trap sediment and sufficiently stabilize outlet.

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Photo 3: Photo of rock aggregate used at the sediment trap outlet. Rock aggregate used for outlet protection appears too large in size to slow stormwater discharge, trap sediment and sufficiently stabilize outlet.



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Photo 4: Photo taken of sediment trap. Sediment traps have not been constructed in accordance with good engineering practices; traps do not appear to be sufficient in size to manage runoff from the 10+ acre pad, berms/ slopes of traps remain unconsolidated. BMPs missing inlet armoring/protection. Rock aggregate used for outlet protection appears too large in size to slow stormwater discharge, trap sediment and sufficiently stabilize outlet.

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Photo 5: Photo taken from the south end of the location, facing west. Operator has removed surface roughening and installed a stormwater ditch/berm along the perimeter of the pad. Ditch/berm has not been installed in accordance with good engineering practices; Ditch/berm remains loose, unconsolidated material. Ditch appears to have been cut with a single pass of a blade, and has been left with a steep grade on one side that can result in stormwater incision within the ditch.



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Photo 6: Photo taken from the southwest end of the location, facing north. See comments under photo 5.

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Photo 7: Photo taken from the southwest end of the location, facing southeast. See comments under photo 5.

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Photo 8: Photo taken from the access road, facing north. Photo shows area of access road that was constructed across a drainage. No BMPs have been installed to prevent ponding and allow for water movement under access road. Additionally no tracking BMPs have been installed to mitigate sediment transport off location.

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Photo 9: Photo taken from the access road entrance, facing east. Photo shows no tracking BMPs have been installed to mitigate sediment transport off location.