

# Inspection Photos

08/08/2019

Operator: BISON OIL & GAS II LLC # 10661

Location ID: 455519

Weld County, CO

Aaron Trujillo

NE Reclamation Specialist

COGCC

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**Photo 1:** Photo taken from the east end of the pad, facing south. Photos 1-4 provide and overview of the current pad from south, southwest, northwest to north.

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**Photo 2:** See comments under photo 1.

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**Photo 3:** See comments under photo 1.

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**Photo 4:** See comments under photo 1.

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**Photo 5:** Photo taken from the slopes on the east end of the location. Photo shows operator has installed tracking BMP to stabilize the slopes on the location. BMP has not been installed in accordance with good engineering practices. Tracking has not been installed up and down the slope, thus facilitating gulley erosion degradation.

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**Photo 6:** Photo taken from the southeast end of the location. Photo shows one of the three stormwater sediment traps on the location. Traps appear to be sufficient in size, however, sediment traps have not been constructed in accordance with good engineering practices; slopes at traps remain improperly tracked. 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. Additionally outlet has been intentionally filled with material. This forces outlet to work as a dam, rather than allowing for sediment laden free stormwater discharge.



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**Photo 7:** Photo taken from the topsoil stockpile on the south end of the location. Three stormwater diversion ditch/berms have been constructed: 1 @ the pad perimeter, 1@ base of the soil stockpiles, and 1@ the perimeter of the disturbance area. Ditch/berm have not been installed in accordance with good engineering practices; Ditch/berm remains loose, unconsolidated material, that will contribute to sediment laden stormwater discharge. Photo also shows tracking on slopes is insufficient (See photo 5)

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**Photo 8:** Photo taken from north end of the pad, facing north. Photo shows one of the three sediment traps along the perimeter of the location. Traps appear to be sufficient in size, however, sediment traps have not been constructed in accordance with good engineering practices; Berms and slopes 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 9:** Photo taken from north end of the pad, facing northeast. Photo shows one of the three sediment traps along the perimeter of the location. See comments under photo 8.

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**Photo 10:** Photo taken from the north end of the location. Photo shows insufficient armoring/stormwater protection at culvert.

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**Photo 11:** Photo taken from the north end of the location, facing west. Photo shows tracking on slopes and perimeter stormwater diversion ditch/berm have not been installed in accordance with good engineering practices. See comments under photos 5 and 7.

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**Photo 12:** Photo taken from the culvert on the north end of the location. See comments under photo 10.

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**Photo 13:** Photo of porta-johns on the north end of the location. Porta-johns appear to have been sufficiently secured.