

Inspection Photos

08/16/2019

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 north east end of the location, facing northeast. Photo shows 1 of the 4 sediment traps on the location. Photo also shows tracking has been re-installed up and down the slopes and is now being used in conjunction with a tackifier.



Photo 2: Photo taken from the north east end of the location, facing northwest. See comments under photo 1.

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Photo 3: Photo of culvert at the north end of the location. Photo shows armorment/stormwater protection remains missing/insufficient.



Photo 4: Photo taken from the north end of the location, facing west. Photo shows ditch appear to have been installed in accordance with good engineering practices; ditch appears sufficiently consolidated/compacted. Operator has installed a tackifier as an additional stabilization within ditch.

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Photo 5: Photo of culvert at the north end of the location. Photo shows armoring/stormwater protection remains missing/insufficient. Photo also shows sediment trap has not been constructed in accordance with good engineering practices and is missing sufficient inlet and outlet protection.



Photo 6: Photo taken from the sediment trap on the north end of the location. Photo shows sediment trap has not been constructed in accordance with good engineering practices and is missing sufficient inlet and outlet protection. Additional smaller sized rip-rap has been placed at outlet in conjunction with the larger aggregate material observed in the previous inspection however, it does not appear as though operator has installed a geotextile lining beneath the coarse aggregate and rip-rap. Wattle has only been placed and staked upon surface, and has not been trenched/backfilled in accordance with good engineering practices.



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Photo 7: Photo taken from the sediment trap on the northeast end of the location. See comments under photo 6.



Photo 8: Photo taken from the sediment trap on the northeast end of the location. See comments under photo 6.

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Photo 9: Photo taken from the ditch along the east end of the location. Photo shows ditch appear to have been installed in accordance with good engineering practices; ditch appears sufficiently consolidated/compacted. Operator has installed a tackifier as an additional stabilization within ditch. Photo also shows Operator has selected/placed straw wattles within the ditch of the location. Wattles appear to have been placed as a "Velocity Check". Straw wattles have not been installed in accordance with good engineering practices. Wattles are required to be trenched and back-filled in order to be in proper functioning condition. Insufficient trenching/backfilling will result in degradation to the ditch due to stormwater cutting and passing beneath the wattle.



Photo 10: Photo taken from the sediment trap on the east end of the location facing east. See comments under photo 6.

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Photo 11: Photo taken from the sediment trap on the east end of the location, facing south. See comments under photo 6.



Photo 12: Photo taken from the south end of the location, facing south. Photo shows tracking has been re-installed up and down the slopes and is now being used in conjunction with a tackifier.

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Photo 13: Photo taken from the ditch at base of the soil stockpile on the south end of the location. Photo shows Operator has selected/placed straw wattles within the ditch of the location. Wattles appear to have been placed as a "Velocity Check". Straw wattles have not been installed in accordance with good engineering practices. Wattles are required to be trenched and back-filled in order to be in proper functioning condition. Insufficient trenching/backfilling will result in degradation to the ditch due to stormwater cutting and passing beneath the wattle. Arrow pointing at daylight observed from under the wattle.



Photo 14: Photo taken from the southwest end of the location, facing southwest. Photo shows tracking has been re-installed up and down the slopes and is now being used in conjunction with a tackifier.

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Photo 15: Photo taken from the sediment trap on the northwest end of the location. See comments under photo 7.



Photo 16: Photo taken from the sediment trap on the northwest end of the location. See comments under photo 7.