

Inspection Photos

3/08/2019

Operator: MALLARD EXPLORATION LLC # 10670

Location ID: 447902

Inspection Doc. Number: 682504576

Weld County, CO

Aaron Trujillo
NE Reclamation Specialist
COGCC

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Photo 1: Photo taken from the location entrance on the west end of the location, facing east.

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Photo 2: Photo taken from the west end of the location, facing north. Photos 2-4 provide an overview of the location from north, east to south

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Photo 3: See comments under photo 2.



Photo 4: See comments under photo 2.



Photo 5: Photo taken from the stormwater ditch on the west end of the location. Photo shows velocity check. Operator appears to have only used large aggregate rock within check. This is not advised as stormwater will likely accelerate around the large rock and may contribute to erosion degradation within the ditch.



Photo 6: Photo taken from the northwest corner of the location, facing east. Photo shows stormwater ditch along perimeter of the north end of the location. Photo also provides overview of location.



Photo 7: Photo taken from the northwest corner of the location, facing south. Photo shows stormwater ditch along perimeter of the west end of the location. Photo also provides overview of location.



Photo 8: Photo taken from the ditch of the north end of the location, facing east. Photo shows tracks left by a vehicle that appears to have traveled upon the slopes and ditch of the location. This does not comply with surface disturbance minimization.



Photo 9: Photo taken from north end of the location, facing south. Photo shows tracks left by a vehicle that appears to have traveled upon the slopes and ditch of the location. This does not comply with surface disturbance minimization.



Photo 10: Photo taken from north end of the location, facing south. Photo shows tracks left by a vehicle that appears to have traveled upon the slopes and ditch of the location. This does not comply with surface disturbance minimization.



Photo 11: Photo taken from the ditch of the northeast end of the location, facing south. Photo shows topsoil stockpile on the east end of the location.



Photo 12: Photo taken from the ditch of the northeast end of the location, facing west. Photo shows stormwater ditch along perimeter of the west end of the location. Photo also provides overview of location.

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Photo 13: Photo of sediment trap on the southeast corner of the location.



Photo 14: Photo taken from the sediment trap on the southeast corner of the location. Photo shows erosion degradation at the inlet of the BMP. Inlet protection appears to have either been “blown out” by stormwater discharge, or has become inundated with sediment and no longer in proper functioning condition.



Photo 15: Photo taken from the southeast corner of the pad, facing west. Photo shows stormwater erosion degradation on the slopes of the pad.



Photo 16: Photo taken from the stormwater ditch on the south end of the location, facing northwest. Photo shows ditch has filled with sediment. Maintenance required.



Photo 17: Photo taken from the stormwater ditch on the south end of the location. Photo shows section of the ditch that appears to have filled with sediment allowing stormwater to breach the BMP and discharge from location.



Photo 18: Photo taken from the south end of the location, facing north. Photo shows stormwater erosion degradation on the slopes of the pad.



Photo 19: Photo taken from the sediment trap on the southwest corner of the pad. Photo shows areas of the ditch leading into the trap that has filled with sediment and is at equal elevation to the berm.



Photo 20: Photo taken from the sediment trap on the southwest corner of the pad, facing northwest. Sediment trap does not appear to be sufficient in size (length/width/depth) to mitigate stormwater run off from the pad.



Photo 21: See comments under photo 20



Photo 22: See comments under photo 20



Photo 23: Photo taken from the northwest end of the pad, facing north. Photo shows stormwater erosion degradation on the slopes of the pad.



Photo 24: See comments under photo 23.



Photo 25: See comments under photo 23. Photo also shows tracks left by a vehicle that appears to have been traveling upon the slopes and ditch of the location. This does not comply with surface disturbance minimization. Vehicle travel may also be contributing to erosion degradation of thr the pad.



Photo 26: Photo taken from the east end of the pad, facing east. Photo shows erosion degradation at the topsoil stockpile.



Photo 27: Photo taken from the south end of the pad, facing south. Photo shows section of the ditch that appears to have filled with sediment allowing stormwater to breach the BMP and discharge from location.