

Inspection Photos

08/20/2019

Operator: BISON OIL & GAS II LLC # 10661

Location ID: 454166

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 1-4 provide an overview of the location from northwest, northeast, east, to southeast. Photo also shows weed establishment on the location.



Photo 2: See comments under photo 1.

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Photo 3: See comments under photo 1. Photo also shows weed establishment on the location.



Photo 4: See comments under photo 1. Photo also shows topsoil berm.

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Photo 5: Photo taken from the south end of the topsoil stockpile. Weedy vegetative establishment on the topsoil stockpile. Photo also show no BMPs have been installed on the south facing slopes of the stockpile in accordance with 1002.c



Photo 6: Continued from photo 5. Operator appears to be implementing BMPs to prevent weed establishment and to protect the stockpiled soils on the top, and northern facing slopes of the topsoil stockpile.

Operator does NOT appear to be implementing BMPs to prevent weed establishment and to protect the south facing slopes of the topsoil stockpile in accordance with 1002.c

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Photo 7: Photo taken from the sediment trap on the southeast end of the location. Photo shows weedy vegetative establishment at the BMP. Photo also shows BMP has not been installed in accordance with good engineering practices; Inlets/outlets insufficiently armored and are missing protections including, but not limited to, geotextile lining and rip-rap aggregate of appropriate sizes. Walls/berms at BMP insufficiently compacted/consolidated/stabilized.



Photo 8: See comments under photo 7

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Photo 9: See comments under photo 7



Photo 10: Photo taken from the southeast end of the location, facing north. Photo shows topsoil stockpile to the left, and pad to the right.

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Photo 11: Photo taken from the south end of the pad. Photo shows erosion degradation on the slopes of the pad.



Photo 12: Photo taken from the south end of the pad. Photo shows noxious weed establishment (Field Bindweed) on the location.

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Photo 13: Photo taken from the north side of the soil stockpile. Photo shows Operator appears to be implementing BMPs to prevent weed establishment and to protect the stockpiled soils on the top, and northern facing slopes of the topsoil stockpile.



Photo 14: Photo taken from the south end of the pad. Photo shows erosion degradation on the slopes of the pad.

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Photo 15: Photo taken from east end of the location, facing north. Photo shows stormwater ditch has not been constructed in accordance with good engineering practices, and has not been properly compacted/consolidated/stabilized. Photo also shows sediment due to stormwater erosion has filled the ditch.



Photo 16: Photo taken from the east end of the pad, facing west. Photo shows erosion degradation on the slopes of the pad.

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Photo 17: Photo taken from the east end of the pad, facing west. Photo shows erosion degradation on the slopes of the pad.



Photo 18: Photo taken from the east end of the pad, facing west. Photo shows erosion degradation on the slopes of the pad.

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Photo 19: Photo taken from the east end of the pad, facing east. Photo shows erosion degradation on the slopes of the pad.



Photo 20: Continued from photo 19. Two (2) meter Robel-pole in photo used for reference.

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Photo 21: Continued from photo 20. Photo shows erosion degradation on the slopes of the pad. Two (2) meter Robel-pole in photo used for reference.



Photo 22: Continued from photo 21. Photo shows sediment has filled ditch. Photo also shows sediment discharge off location.

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



Photo 24: Photo shows sediment deposition has filled the stormwater ditch.



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Photo 25: Photo taken from the east end of the location, facing west. Photo shows erosion degradation on slopes is beginning to cut under the porta-john on the east end of the location. Erosion degradation is compromising the stabilization of the porta-john and may result in tipping and spilling contents.



Photo 26: Continued from photo 25.



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Photo 27: Photo taken from the east end of the pad, facing east. Photo shows erosion degradation on the slopes of the pad.



Photo 28: Photo taken from the east end of the pad. Photo shows erosion degradation on the slopes of the pad.

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Photo 29: Photo taken from the east end of the pad, facing east. Photo shows erosion degradation on the slopes of the pad. Two (2) meter Robel-pole in photo used for reference.



Photo 30: Photo taken from the northeast end of the location, facing north. Photo shows stormwater ditch has filled with sediment. Photo also shows sediment trap. See comments under photo 7 for comments regarding sediment traps on location.

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Photo 31: Continued from photo 30. See comments under photo 7.



Photo 32: Photo shows perimeter stormwater ditch on the north end of the location. Photo shows stormwater ditch has not been constructed in accordance with good engineering practices, and has not been properly compacted/consolidated/stabilized. Photo also shows sediment due to stormwater erosion has filled the ditch.

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Photo 33: Photo of sediment trap on the north end of the location. See comments under photo 7. Photo also shows that the outlet of the sediment trap has been constructed at the same elevation as the adjacent ditches and berms, and will not allow for stormwater discharge.



Photo 34: See comments under photo 33.

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Photo 35: See comments under photo 33.



Photo 36: See comments under photo 33.

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Photo 37: Photo taken from the west end of the location, facing east. Photo provides an overview of the location. . Photo also shows weed establishment on the location.



Photo 38: Photo taken from the west end of the location, facing southeast. Photo provides an overview of the location. Photo also shows weed establishment on the location.

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Photo 39: Photo shows perimeter stormwater ditch on the west end of the location. Photo shows stormwater ditch has not been constructed in accordance with good engineering practices, and has not been properly compacted/consolidated/stabilized. Photo also shows sediment due to stormwater erosion has filled the ditch.



Photo 40: Photo taken from the west end of the location. Photo shows plastic barrel identified in the previous inspection has not been placed into secondary containment, or removed.

Container also missing required labelling; Unable to clearly identify contents.

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Photo 41: Photo taken from the southwest end of the pad, facing north. Photo shows stormwater runoff from the access road is beginning to cause erosion on the pad.



Photo 42: Photo taken from the southern are of the pad, facing northeast. Photo shows evidence of stormwater ponding on pad and vehicle tracking. Insufficient stormwater controls in place to allow for sediment laden free stormwater discharge from the location. BMPs need to be in place to 1) mitigate ponding, 2) prevent potential industrial pollutant contact and 3) to allow for sediment laden-free stormwater discharge from the location.

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Photo 43: See comments under photo 42.



Photo 44: Photo taken from the Hunt 8-60 6C-5-10 well. Photo shows weed establishment on location and evidence of stormwater ponding at well. See comments under photo 42.

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Photo 45: Photo taken from the Hunt 8-60 6C-5-6 well. Photo shows weed establishment on location and evidence of stormwater ponding at well. See comments under photo 42.



Photo 46: Photo taken from the northeast end of the pad, facing west. Photo shows areas where previous inspection documented contaminated soils. Photo shows contaminated soils appear to have been removed. Photo also shows weed establishment on location.



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Photo 47: Photo taken from the tank battery. Photo shows tanks missing required labeling in accordance with 210.b



Photo 48: Photo taken from the tank battery. Photo shows tanks missing required labeling in accordance with 210.b

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Photo 49: Photo taken from equipment on the north end of the location. Photo shows stained soils at base of equipment.



Photo 50: Continued from photo 49. Photo shows seven (7) barrels without secondary containment. Photo also shows stained soils at base of equipment, and around barrels.

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Photo 51: Continued from photo 50. Photo shows the seven (7) barrels without secondary containment. Photo shows labeling on majority of the barrels is illegible.



Photo 52: Continued from photo 50. Photo shows stained soils at base of equipment, and around barrels without secondary containment.

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Photo 53: Photo taken from culvert along access road. Photo shows culverts have been installed without sufficient inlet/outlet protection/armoring



Photo 54: Continued from photo 52.