

Inspection Photos

3/08/2019

Operator: BISON OIL & GAS II LLC # 10661

Location ID: 454166

Inspection Doc. Number: 682504584

Weld County, CO

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COGCC

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Photo 1: Photo taken from the southwest end of the location, facing east. Photos 1-4 provide an overview of the location from east, northeast, north to northwest.

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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.



Photo 5: Photo taken from the southeast end of the location, facing west. Photo shows perimeter stormwater ditch on the south end of the location, and the topsoil stockpile. Ditch does not appear to be sufficient and has filled with sediment.



Photo 6: Photo taken from the southeast end of the location, facing north. Photo shows perimeter stormwater ditch on the east end of the location. Ditch does not appear to be sufficient and has filled with sediment.



Photo 7: Photo taken from the southeast end of the location, facing west. Photo shows stormwater ditch between pad and the topsoil stockpile. Ditch does not appear to be sufficient and has filled with sediment.



Photo 8: Photo taken from the southeast end of the location, facing north. Photo shows perimeter stormwater ditch on the east end of the location. Ditch does not appear to be sufficient and has filled with sediment. Photo also shows slopes of the pad are bare and exposed soil, or vegetated by undesirable weedy plant species.



Photo 9: Photo taken from the southeast end of the location, facing south. Photo shows perimeter stormwater ditch on the east end of the location. Ditch does not appear to be sufficient and has filled with sediment.



Photo 10: Photo taken from north end of the location, facing southeast. Photo shows slopes of the pad and the perimeter stormwater ditch. Slopes of the pad are bare and exposed soil, or vegetated by undesirable weedy plant species.



Photo 11: Photo taken from north end of the location, facing west. Photo shows perimeter stormwater ditch.



Photo 12: Photo taken from the north end of the location, facing east. Photo shows areas of the ditch where vehicles were operated over the BMP. This is not advised.



Photo 13: Photo taken from the north end of the location, facing east. Photo shows perimeter stormwater ditch.



Photo 14: Photo taken from the north end of the location, facing south. Photo shows perimeter stormwater ditch.

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Photo 15: Photo taken from the north end of the location, facing east. Photos 15-17 provide an overview of the location from east, southeast, to south.

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Photo 16: See comments under photo 15.

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Photo 17: See comments under photo 15.



Photo 18: Photo taken from the west end of the location, facing north. Operator appears to have applied a tackier onto the slopes. Cut slopes sufficiently stabilized at time of inspection.



Photo 19: Photo taken from the topsoil stockpile on the south end of the location. Photo shows topsoil stockpile is bare and exposed soil, or vegetated by undersirable weedy plant species such as *Salsola* sp. This does not comply with 1002.c



Photo 20: Photo taken from the north facing slope of the topsoil stockpile. Operator does not appear to have constructed the stockpile with an appropriate grade. Photo shows slopes do not appear to be sufficiently stabilized. Erosion degradation evident.



Photo 21: See comment under photo 20.



Photo 22: Photo taken from the south end of the topsoil stockpile. See comments under photo 19



Photo 23: Photo taken from the south end of the topsoil stockpile. See comments under photo 19



Photo 24: Photo taken from the slopes on the south end of the pad. Photo shows slopes are bare and exposed soil, or vegetated by undersirable weedy plant species such as *Salsola* sp. Slopes have not been sufficiently stabilized. Stormwater erosion and sediment deposition evident.



Photo 25: See comments under photo 24.



Photo 26: See comments under photo 24.



Photo 27: Photo taken from the east end of the pad, facing west. Photo shows slopes are bare and exposed soil, or vegetated by undersirable weedy plant species such as *Salsola* sp. Slopes have not been sufficiently stabilized. Stormwater erosion and sediment deposition evident. 6 foot measuring stick for reference.



Photo 28: See comments under photo 27.



Photo 29: See comments under photo 27.



Photo 30: See comments under photo 27.



Photo 31: See comments under photo 27.



Photo 32: Photo taken from the east end of the location, facing south. Photo shows ditch has filled with sediment and is not longer in proper functioning condition.



Photo 33: See comments under photo 27.



Photo 34: Photo taken from the ditch on the east end of the location. Photo shows a vehicle appears to have traveled over and damaged the ditch/berm. BMP no longer in proper functioning condition.



Photo 35: See comments under photo 27.



Photo 36: See comments under photo 27.



Photo 37: Photo taken from the sediment trap on the northeast corner of the location. BMP does not appear to have been constructed in accordance with good engineering practices; insufficient inlet and slope protection. Stormwater has incised the ditch at the inlets of the sediment traps. Slopes of the traps do not appear to have been constructed at an advisable grade in accordance with good engineering practices; stormwater erosion degradation evident along the slopes of the sediment traps.



Photo 38: See comments under photo 27

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Photo 39: See comments under photo 37



Photo 40: See comments under photo 27. In addition It does not appear that the perimeter stormwater and erosion controls installed on location are sufficient to mitigate stormwater runoff from the 11 acre disturbance; The two (2) sediment traps on the northeast and northern ends of the location also do not appear to be sufficient in size for the location.



Photo 41: Photo taken from the northeast corner of the pad. Photo shows Operator is storing contaminated soils on the northeast corner of the pad. Containment BMPs are insufficient as pollutant discharge from the contaminated soils is evident.



Photo 42: See comments under photo 41.



Photo 43: See comments under photo 41.



Photo 44: Photo taken from the east end of the pad. Photo shows multiple 5 gallon buckets and jugs are being stored directly upon the surface of the soil. This is not proper materials management.

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Photo 45: Photo taken from the southeast end of the location, facing north. See comments under photo 3..

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Photo 46: Photo taken from the southeast end of the location, facing north. See comments under photo 3..



Photo 46: Photo taken from the west end of the pad. Photo shows a barrel being stored directly upon the surface of the soil. This is not proper materials management.



Photo 47: Photo taken from the west end of the pad. Photo shows what appears to be a paint can being stored directly upon the surface of the soil. This is not proper materials management.



Photo 48: Photo taken from the east end of the pad. Photo shows a 5 gallon buckets being stored directly upon the surface of the soil. This is not proper materials management.

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Photo 49: Photo taken from the east end of the pad. Photo shows trash debris (jug) appears to have been blown from the location.



Photo 50: Continued from photo 49.



Photo 51: Photo taken from the perimeter of the pad. The following photos are examples of multiple areas throughout the perimeter of the location where trash debris was observed.



Photo 52: See comments under photo 51.



Photo 53: See comments under photo 51. .