

Inspection Photos

12/09/2019

Operator: BISON OIL & GAS II LLC # 10661

Location ID: 452871

Weld County, CO

Aaron Trujillo

NW Reclamation Specialist

COGCC

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Photo 1: Photo shows porta-johns appear sufficiently secured down.



Photo 2: Photo taken from the east end of the location, facing south. Photo of perimeter stormwater diversion ditch.

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Photo 3: Photo taken from the southeast corner of the location. Photo shows area of cut-slope where erosion degradation was previously observed. Operator appears to have installed a tackifier mulch on the cut slopes. BMP appears to be degrading and is unlikely to remain sufficient to maintain slope stabilization without maintenance, or additional BMPs installed in conjunction.



Photo 4: Continued from photo 3. Photo shows cut slopes on the southeast corner of the location. Photo shows signs that erosion degradation is beginning to recur. Tackifier appears to be degrading.

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Photo 5: Photo taken from the south east end of the location, facing west. Photo shows cut slopes of location.



Photo 6: Photo taken from the south east end of the location, facing north. Photo shows cut slopes of location.

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Photo 7: Photo taken from the south end of the location, facing northwest. Photo shows overview of drilling operations.



Photo 8: Photo taken from the south end of the location, facing north. See comments under photo 5.

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Photo 9: Photo taken from the south end of the location. Photo shows potential E&P waste spilled upon the soil surface with discharge into the perimeter stormwater diversion ditch. Outlet of ditch leads off location. It is noted that the materials observed in this photo have comingled with ice/precipitate.

Photo 10: See comments under photo 9.

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Photo 11: See comments under photo 9.



Photo 12: See comments under photo 9.

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Photo 13: See comments under photo 9.



Photo 14: Photo taken from the south end of the location. Photo shows materials stored on Location. Photo also show three (3) chemical barrels stored without secondary containment.

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Photo 15: Continued from photo 14. Photo shows three (3) chemical barrels stored without secondary containment.



Photo 16: Continued from photo 14. Photo shows label of one of the three barrels indicating contents to be "High Tac Bar & Chain Oil".

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Photo 17: Photo taken from the south end of the location. Photo shows chemical/materials appear to have been spilled onto the soil surface of the pad. Material sits adjacent to the stormwater diversion ditch which transports stormwater runoff off location. It is noted that the materials observed in this photo have comingled with ice/precipitate.

Photo 18: Continued from photo 17.

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Photo 19: Photo shows barrel not stored within secondary containment. Writing on side of barrel says “Drilltreat”



Photo 20: Photo shows six (6) chemical barrels stored without secondary containment. A seventh (7th) barrel was observed laying on its side on other side of barrels observed in this photo (see photo 21)

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Photo 21: Continued from photo 20. Photo shows chemical barrels stored without secondary containment, with one stored on its side.

Photo 22: Photo of label on chemical barrels in photos 20-21.

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Photo 23: Photo taken from the south end of the location. Photo shows secondary containment BMP in place on location available for use.



Photo 24: Photo taken from the south end of the location. Photo shows chemical spill under a material pallet.

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Photo 25: Photo taken from the south end of the location. Photo shows additional barrels stored on location.



Photo 26: Photo taken from west end of the location, facing north. Photos 26-28 provide an overview of the location from north, east, to southeast.

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Photo 27: See comments under photo 26.



Photo 28: See comments under photo 26.

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Photo 29: Photo taken from the sediment trap on the northwest corner of the location. Photo shows additional maintenance appears to have been conducted on the BMP. At time of inspection, BMP appeared to be in proper functioning condition and installed in accordance with good engineering practices.

Photo 30: Continued from photo 29.

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Photo 31: Continued from photo 29.



Photo 32: Continued from photo 29.

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Photo 33: Continued from photo 29.



Photo 34: Photo taken from the sediment trap on the northeast corner of the location. Photo shows additional maintenance appears to have been conducted on the BMP. At time of inspection, BMP appeared to be in proper functioning condition and installed in accordance with good engineering practices.

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Photo 35: Continued from photo 34.



Photo 36: Continued from photo 34.

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Photo 37: Photo taken from the location entrance on the east end of the location, facing west. Photo shows tracking pad. Operator has failed to maintain BMP; BMP has filled with sediment and is no longer in proper functioning condition.



Photo 38: Photo taken from the location entrance on the north end of the location, facing west. Photo shows tracking pad. Operator has failed to maintain BMP; BMP has filled with sediment and is no longer in proper functioning condition.