

Inspection Photos

3/08/2019

Operator: BISON OIL & GAS II LLC # 10661

Location ID: 452871

Inspection Doc. Number: 682504582

Weld County, CO

Aaron Trujillo
NE Reclamation Specialist
COGCC



Photo 1: Photo taken from the southeast corner of the location, facing west. Photos 1-3 provide and overview of the location from west, northwest to north.



Photo 2: See comments under photo 1.



Photo 3: See comments under photo 1.



Photo 4: Photo taken from the south end of the topsoil stockpile. Photo shows operator has failed to prevent weed establishment in accordance with 1002.c.



Photo 5: Photo taken from the south end of the topsoil stockpile. Photo shows operator has failed to prevent weed establishment in accordance with 1002.c. Photo also shows what appear to be a shallow ditch on the south end of the stockpile. Ditch does appear to have been constructed in accordance with good engineering practices, and does not appear to be sufficient. There does not appear to be any stormwater and erosion control BMPs on the east and west end of the topsoil stockpile. Stockpile is predominantly undesirable weedy plant species such as Russian Thistle and Kochia.

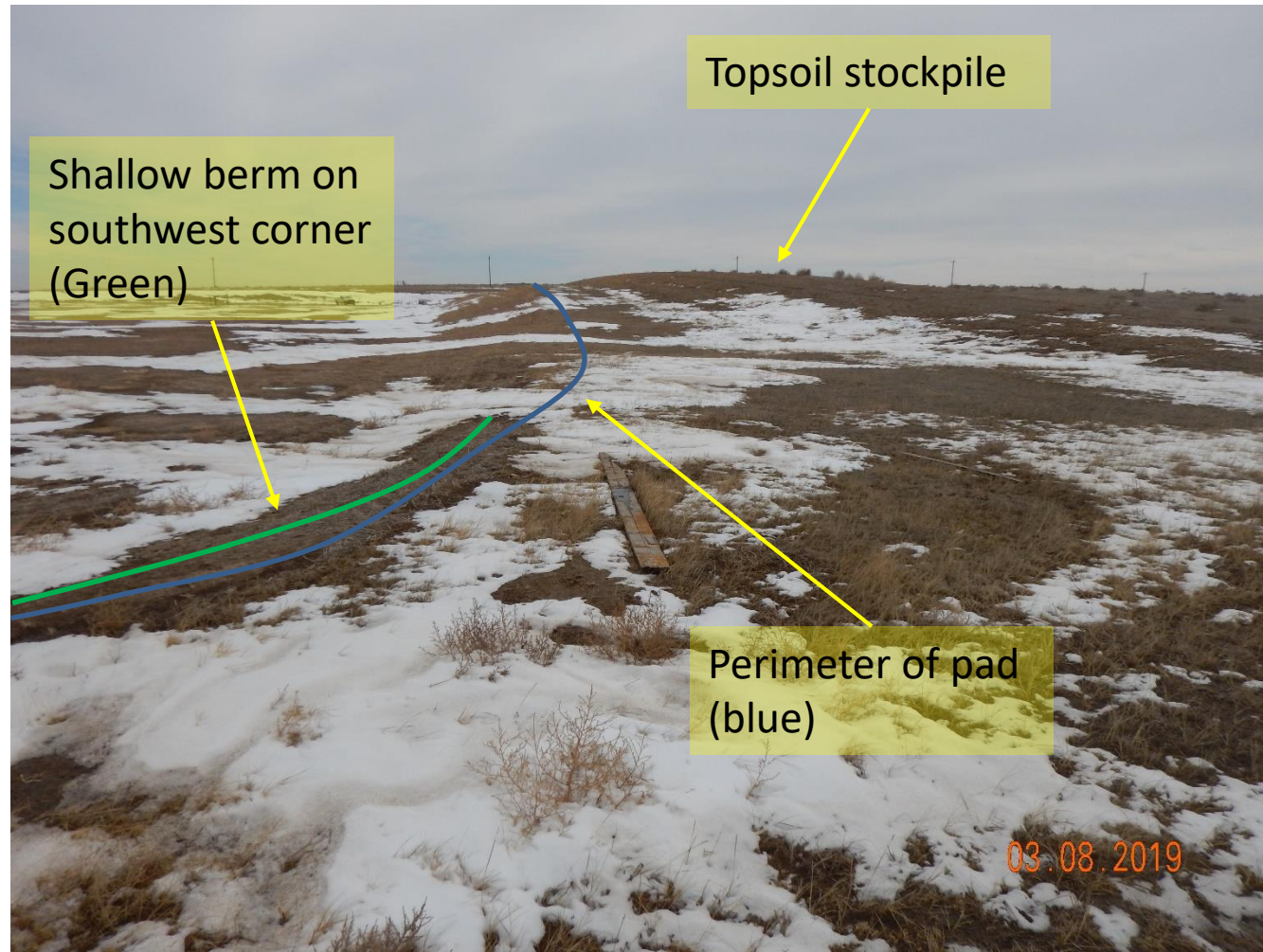


Photo 6: Photo taken from the southwest corner of the locaiton, facing east. Photo shows topsoil stockpile. Photo also shows that there does not appear to be any stormwater and erosion control BMPs on the west end of the topsoil stockpile. Stockpile is predominantly undesirable weedy plant species such as Russian Thistle and Kochia, or bare and exposed soil.



Photo 7: Photo taken from the southwest corner of the location, facing northeast. Photo provides overview of the location. Photo also shows shallow berm on the southwest end of the location.



Photo 8: Photo taken from the southwest corner of the location, facing north. Photo provides overview of the location. Photo also shows shallow berm on the southwest end of the location. Berm travels north approximately a couple hundred of feet and ends (red arrow). There does not appear to be sufficient stormwater and erosion control BMPs at the end of berm to mitigate erosion degradation and sediment laden free stormwater discharge from location.



Photo 8.b: Continued from photo 8. Photo shows shallow berm (blue) on the southwest end of the location. Berm travels north a couple hundred of feet and promptly ends (red arrow). There does not appear to be sufficient stormwater and erosion control BMPs at the end of berm to mitigate erosion degradation and sediment laden free stormwater discharge from location.



Photo 9: Photo taken from northwest corner of the location. Photo shows sediment trap. Operator has installed two (2) traps on the location. Sediment traps do not appear sufficient in size to mitigate stormwater runoff from the 14.5 acre disturbance area.



Photo 10: Photo taken from top of the sediment trap on the northwest corner of the location. Operator appears to have ripped the slope of, and areas around, the sediment trap. Ripping has been conducted in such a manner to promote stormwater erosion degradation rather than mitigate it.



Photo 11: Photo taken from the northwest corner of the location, facing east. Photos 11-13 provide an overview of the location from east, southeast to south.

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Photo 12: See comments under photo 11.



Photo 13: See comments under photo 11.



Photo 14: Photo taken from the north end of the location, facing east. Photo shows vegetative establishment on the slopes evident.



Photo 15: Photo taken from the north end of the location. Photo shows area where prior erosion degradation appears to have been repaired.



Photo 16: Photo taken from the sediment trap on the northeast corner of the location. See comments under photo 9.



Photo 17: Photo taken from the sediment trap on the northeast corner of the location. See comments under photo 9.



Photo 18: Photo taken from the sediment trap on the northeast corner of the location. See comments under photo 9.



Photo 19: Photo taken from the northeast corner of the location, facing south. Photos 19-21 provide an overview of the location from south, southwest to west

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Photo 20: See comment under photo 19.

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Photo 21: See comment under photo 19.



Photo 22: Photo taken from the east end of the location, facing southeast. Photo shows various trash debris/materials being stored off location.



Photo 23: Photo taken from the east end of the location, facing west. Photo shows various trash debris/materials being stored off location.



Photo 24: Photo shows barrels on location properly stored in sufficient secondary containment. This is proper materials management.



Photo 25: Photo taken from the southeast corner of the pad. Photo shows two (2) 300 gallon tanks. Tanks have not been properly stored in sufficient secondary containment. This is not proper materials management.



Photo 26: Photo shows barrels on location properly stored in sufficient secondary containment.



Photo 27: Photo taken from the cut slopes on the south end of the location. Photo shows slopes are predominantly bare and exposed soil. Aeolian deposition evident and appear to have covered any vegetation that has germinated. Stormwater erosion degradation is becoming evident.

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Photo 28: See comments under photo 27.