

Inspection Photos

08/14/2018

Operator: CASCADE PETROLEUM LLC - 10414

Location ID: 439341

Inspection Doc. Number: 682503716

Lincoln County, CO

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COGCC

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Photo 1: Photo from Inspection #682503518 dated 6/19/2018 (photo #16). Photo taken from the northwest end of the location, facing south. Previous inspection documented erosion degradation along access road and wattle/erosion log no longer in proper functioning condition as stormwater erosion was cutting underneath the wattle. Previous inspections required operator to perform stormwater management



Photo 2: Photo date 8/14/2018. Photo taken from the northwest end of the location, facing south. Photo shows wattle appears to have been replaced, however, BMP has now filled with sediment and is no longer in proper functioning condition. Additionally, stormwater erosion degradation observed along access road has not been sufficiently repaired or stabilized and has been allow to continue.

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Photo 3: Photo from Inspection #682503518 dated 6/19/2018 (photo #3). Photo taken from the entrance gate of the location. Photo shows stormwater erosion occurring at the entrance with sediment deposition traveling off the location. See comments under photo 1.



Photo 4: Photo date 8/14/2018. Photo taken from the entrance gate of the location. Photo shows stormwater erosion degradation has not been repaired or stabilized, and degradation and sediment transport off location has been allowed to continue.



Photo 5: Photo continued from photo #4



Photo 6: Photo taken from the area of the reclaimed access road on the northwest end of the location, facing south. Photo shows stormwater erosion degradation has continued. Wattle (erosion log) appears to have filled with sediment, and stormwater now appears to be diverting west around the wattle.

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Photo 7: Photo taken from the area of the reclaimed access road on the west end of the location, facing south. Photo shows hydromulching and additional maintenance to properly install stowmater and sediment erosion controls appears to have been conducted.



Photo 8: Photo taken from the area of the reclaimed access road on the west end of the location, where access road ended and began traveling east to the well. Photo facing north. Photo shows areas of the access road where gravel/road base has not been removed. Blue and yellow stars show areas where photos 9 and 10 was taken.

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Photo 9: See comments under photo 8. Photo shows areas of the access road on location where gravel/road base remains.



Photo 10: See comments under photo 8. Photo shows areas of the access road on location where gravel/road base remains.

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Photo 11: Photo taken from the location. Photo was taken to compare/contrast areas of the location, from areas of the access road where gravel/road base has not been removed.



Photo 12: Photo taken from the location. Photo of wattle. Unable to find evidence that maintenance has occurred. Wattle does not appear to have been installed or maintained in accordance to good engineering practices or per corrective actions. Stormwater appears to be traveling under wattle.

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Photo 13: Photo taken from the southern end of the location, facing north. Though some maintenance has been evident on some of the controls on location, sufficient maintenance and stormwater management does not appear to have been conducted or occurring per corrective actions. Photo shows stormwater appear be continuing to cut beneath wattles and erosion degradation has continued on the location.



Photo 14: Photo taken from the southern end of the location, facing north. See comments under photo 13.

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Photo 13: Photo taken from the southern end of the location, facing north. See comments under photo 13.



Photo 14: Photo taken from the south end of the location, facing south. See comments under photo 13.



Photo 15: Continued from photo 14. Photo shows sediment from sediment laden stormwater discharge has continued to transport sediment off location..



Photo 16: Photo taken from the access road gate, north of the location facing south. Photo shows additional controls have been installed along access road, however, stormwater erosion degradation does not appear to have been repaired, and controls do not appear to be sufficient to mitigate stormwater degradation. See photos 1-4 for additional stormwater concerns on/from access road.



Photo 17: See comments under photo 16



Photo 18: See comments under photo 16.