

Inspection Photos

4/02/2019

Operator: H & M PETROLEUM CORPORATION -
10032

Location ID: 458288

Inspection Doc. Number: 682504700

Logan County, CO

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COGCC

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Photo 1: Photos taken from the well. Photo shows operator has installed signage at well head in accordance with 210.b(1) (emergency contact @ battery).



Photo 2: Photos taken from the east end of the well. Photo shows area where materials were improperly stored. Materials appear to have been removed from location.

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Photo 3: Photo taken from the south end of the location, facing east. Photo shows areas where aeolian soils were brought onto the location. Photo shows areas inspector observed a stormwater channel beginning to form.



Photo 4: Photo taken from the east end of the location. Photo shows straw wattles have not been installed in accordance with good engineering practices.



Photo 5: See comments under photo 4.

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Photo 6: See comments under photo 4.



Photo 7: Continued from photo 6.



Photo 8: Photo taken from the east end of the location, facing west. Photos 8-10 provide overview from west, northwest to north, of the soil stockpile from pit. Photos show topsoil and the subsoil horizons were not separated and stored or marked/documented in accordance with Rule 1002.b. Photos also show stockpile appears to remain loose, unstabilized material and stormwater erosion degradation is evident.



Photo 9: See comments under photo 8.



Photo 10: See comments under photo 8.

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Photo 11: Photo taken from the soil stockpile. Photo shows erosion degradation evident on stockpile.



Photo 12: Photo taken from the soil stockpile. Photo show sediment deposition due to stormwater degradation and runoff from the soil stockpile.



Photo 13: Photo taken from the soil stockpile. Photo erosion degradation due to stormwater



Photo 14: Continued from photo 13.



Photo 15: Continued from photo 13.



Photo 16: Photo taken from the produced water tank on the north end of the location. Photo shows insufficient signage (sign only says “water”) and labeling at tank in accordance with Rule 210.d. Photo also shows missing secondary containment at tank in accordance with 906.d(1).



Photo 17: Photo taken from the south end of the produced water tank. Photo shows contaminated soils due to possible discharge from the tank.

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Photo 18: Photo taken from the north end of the location, facing northwest. Photo shows berm at battery appears to be unchanged. Operator does not appear to have installed secondary containment to comply with 906.d(1)



Photo 19: See comments under photo 18.



Photo 20: See comments under photo 18.

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Photo 21: Photo taken from north of the location, at the area where the access road turns from north to east. Photo shows operator also appears to have created an additional section of access road traveling to the Highball 1 location, rather than restricting travel to the existing access road. This is unnecessary additional disturbance and does not comply with 1002.e

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Photo 22: Continued from photo 21.

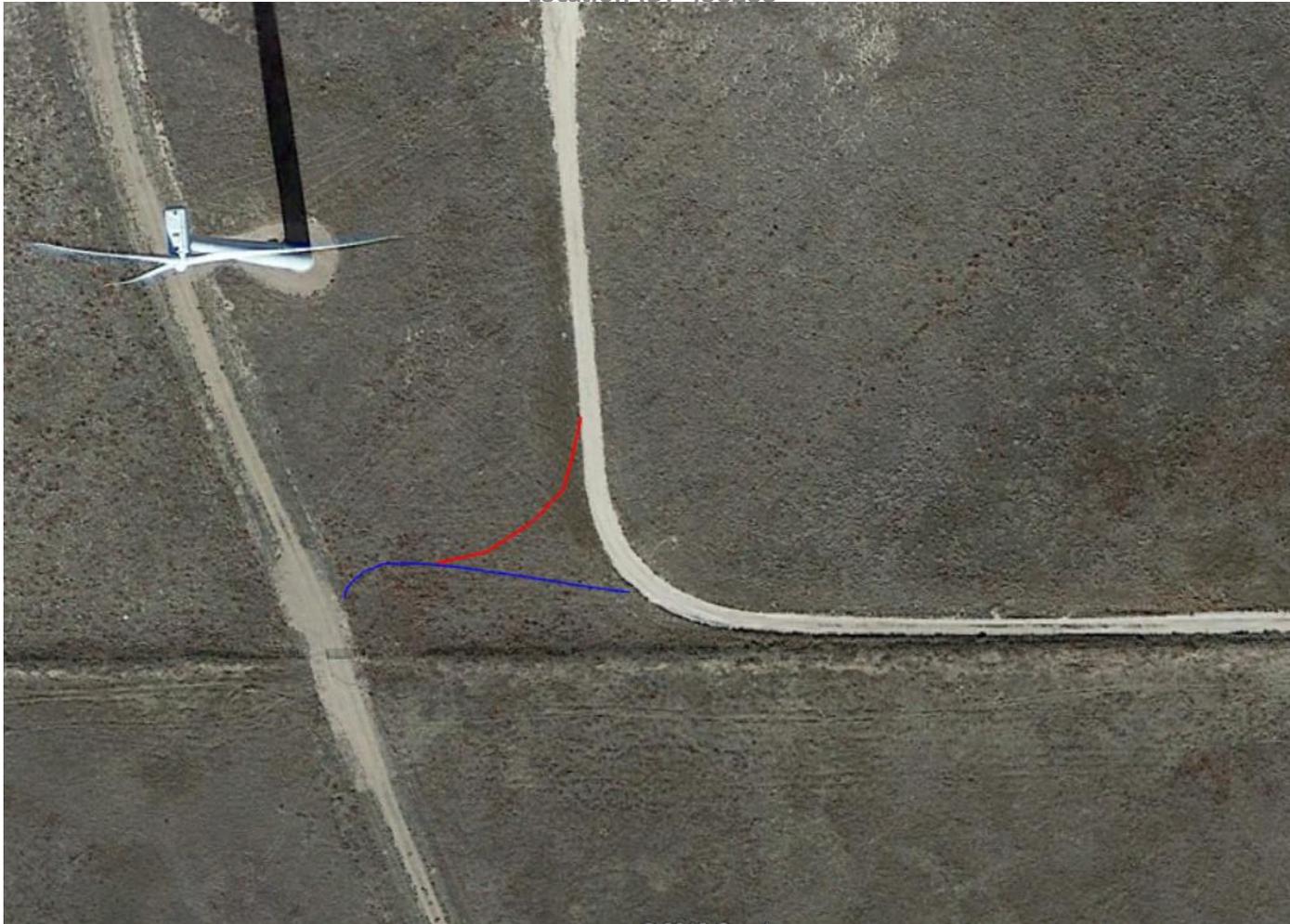


Photo 22.b: Google earth Aerial imagery. Red line represents approximate area of where operator created an additional section of access road traveling to the Highball 1 location, rather than restricting travel to the existing access road



Photo 23: Photo taken from the from the east/west section of access road. Photo shows rutting degradation occurring along access road. BMPs should be installed and maintenance conducted to mitigate degradation to access road, and areas beyond the access road.

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Photo 24: Photo taken from the southwest corner of the location, facing north. Photo of porta-john Continued from photo 23.



Photo 25: Photo taken northeast of the location, where the access road turns east/west to north/south. Photo shows operator appears to have travelled beyond the designated access road onto adjacent lands creating additional disturbance. This does not comply with 1002.e and will require reclamation.

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Photo 26: Photo taken from the north/south section of access road, facing south. See comments under photo 25.



Photo 27: Photo taken from the north/south section of access road, facing south. See comments under photo 25.

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Photo 28: Photo taken from the north/south section of access road, facing south. See comments under photo 25.



Photo 28.b: Google earth aerial image. Red line represents approximate area of where operator travelled off access road and created the additional 0.33 mile disturbances observed in photos 25-28.



Photo 29: Photo taken from the drill pit, facing east. Photo shows section of the drill pit where the liner is no longer in proper functioning condition.



Photo 30: Photo taken from the drill pit. Photo shows section of the drill pit where the liner is no longer in proper functioning condition.



Photo 31: Photo taken from the drill pit. Photo shows section of the drill pit where the liner is no longer in proper functioning condition.



Photo 32: Photo taken from the drill pit. Photo shows chemicals/fluids within the pit.