

Construction and Stormwater Inspection

June 25, 2019

Operator: CRESTONE PEAK RESOURCES OPERATING LLC - #10633

Location ID: 455598

Inspection Document #: 697500242

Weld County, CO

NENE Section 18 T1N R67W

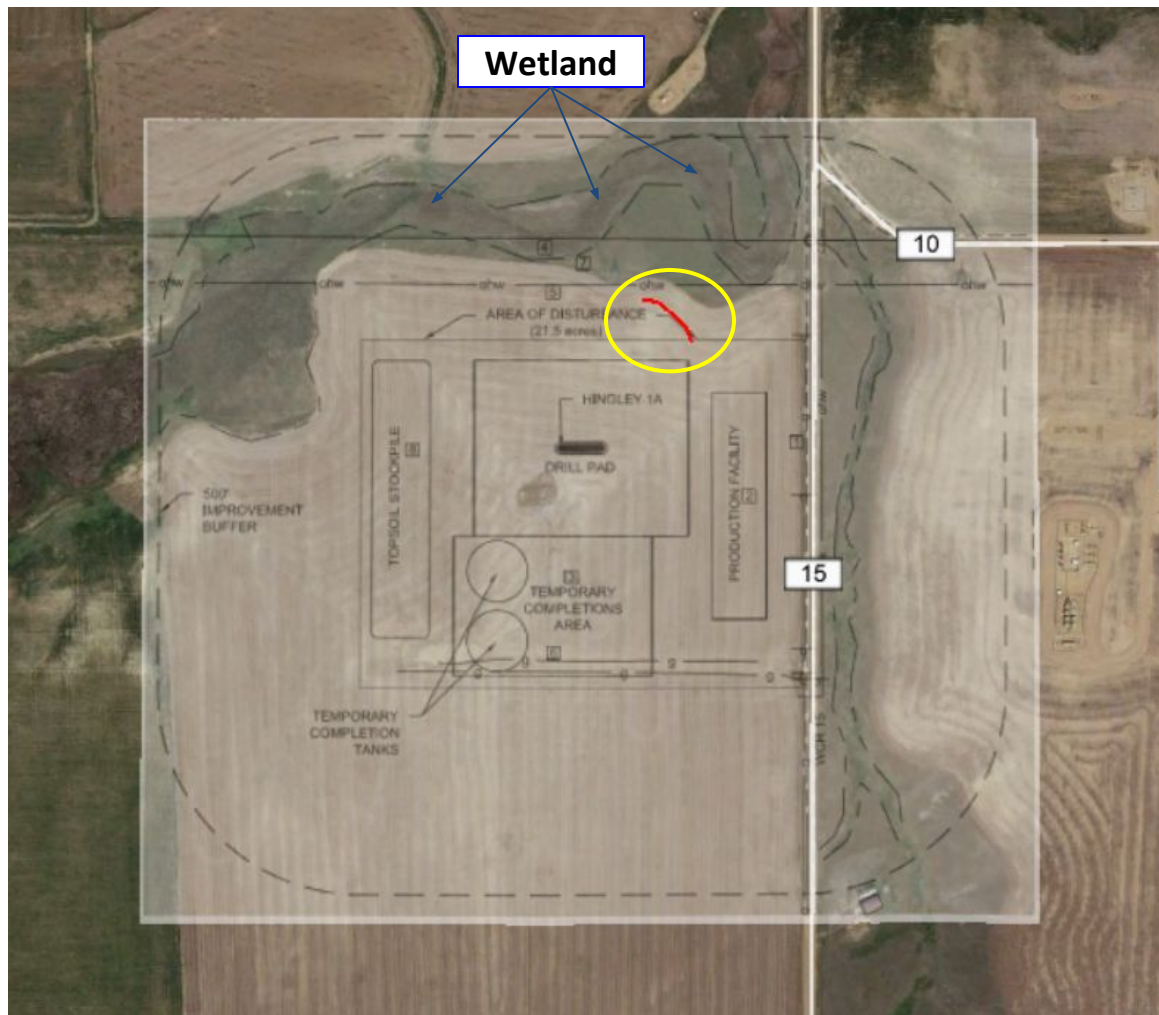
Chris Binschus
Reclamation Specialist, COGCC



COLORADO
Oil & Gas Conservation
Commission

Department of Natural Resources

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Google Earth aerial imagery taken on 6/9/2017 which has been overlaid with the Operator Location Drawing and field collected data from 6/25/2019 (red line). Aerial imagery illustrates a red line with the approximate path of stormwater erosion that left location during construction operations due to inadequate stormwater BMPs- see Photos 1-5. Note- there were other discharge points along the northern perimeter of the location.

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Photo 1. Photo taken from the northeastern location, facing West. Photo illustrates the starting point of the sediment discharge point that was illustrated with the red line in the previous photo. Photo illustrates how both ditches with sediment accumulation.

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Photo 2. Photo taken from the discharge point along the northeastern perimeter of location, facing North. Photo illustrates wheat stubble that has been laid over due to stormwater erosion discharge from location.

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Photo 3. Photo taken from a portion of the northern discharge path, facing West. Photo illustrates sediment accumulation from stormwater erosion discharge from the location.

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Photo 4. Close up photo taken of the sediment accumulation from stormwater erosion discharge from the location.

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Photo 5. Photo taken from a portion of the northern discharge path, facing South. Photo illustrates the evidence of a portion of the stormwater erosion discharge path that left the location.



Photo 6. Photo taken from the northern perimeter of location, facing West. Photo illustrates an improperly installed sediment trap. Operator has failed to install the sediment trap per good engineering practices and it doesn't appear to be properly sized as sediment accumulation has almost filled it up. Based off my observations, the Operator installed this sediment trap after sediment had already discharged from location- see Photo 7.

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Photo 7. Photo taken from the northern perimeter of location, facing Northwest. Sediment discharge was observed beyond the temporary stabilized outlet (erosion control blanket). There was no observed sediment within the erosion control blanket which would imply it was installed after the discharge event.

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Photo 8. Photo taken from northwestern perimeter of location, facing East. Photo illustrates another point of discharge from location. Also, photo illustrates how the berm BMP has not been properly installed, as unconsolidated material has not been stabilized.

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Photo 9. Photo taken from northwestern perimeter of location, facing Southwest. Photo illustrates gully erosion along the fill slope which has filled in the perimeter ditch and berm BMP.

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Photo 10. Photo taken from northwestern perimeter of location, facing West. Photo illustrates an improperly installed sediment trap. Operator has failed to install the sediment trap per good engineering practices and it has not been properly sized because sediment discharge was observed beyond the temporarily stabilized outlet (erosion control blanket)- see Photo 11.

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Photo 11. Close up photo taken from northwestern perimeter of location, facing West. Photo illustrates sediment discharge beyond the temporarily stabilized outlet (erosion control blanket).

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Photo 12. Photo taken from western perimeter of location, facing South. Photo illustrates the topsoil stockpile which has been temporarily stabilized but rill erosion was observed throughout.

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Photo 13. Photo taken from southwestern perimeter of location, facing East. Photo illustrates an improperly installed sediment trap. Operator has failed to install the sediment trap per good engineering practices, as the sediment trap itself appears to be eroding.

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Photo 14. Photo taken from southern perimeter of location, facing East. Photo illustrates an improperly installed berm BMP, as unconsolidated material has not been stabilized.

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Photo 15. Photo taken from the southern entrance of location, facing Northeast. Operator has installed a vehicle tracking device BMP and it appears to be in proper functioning condition at the time of this inspection.

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Photo 16. Photo taken from the north entrance of location, facing Northeast. Photo illustrates the Operator has failed to properly install the culvert with inlet protection, as gully erosion is observed at the inlet area.

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Photo 17. Photo taken from the north entrance of location, facing Northeast. Photo illustrates the Operator has failed to properly install the culvert with outlet protection, as sediment accumulation was observed at the outlet area.