

Inspection Photos

3/2/2020

Operator: LARAMIE ENERGY LLC # 10433

Location ID: 436835

Garfield County, CO

Aaron Trujillo

NW Reclamation Specialist

COGCC

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Photo 1: Photo taken from the Location entrance, facing west. Photo shows signage at Location entrance.



Photo 2: Photo taken from the sediment pond/trap on the east end of the Location, facing northeast. Photo shows BMP has not been constructed in accordance with good engineering practices; BMP missing an adequate outlet to allow for sediment laden-free stormwater discharge from the Location.



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Photo 3: Continued from photo 2. Photo taken from east end of the sediment trap, facing west. Photo shows BMP has not been constructed in accordance with good engineering practices; BMP missing an adequate outlet to allow for sediment laden-free stormwater discharge from the Location.



Photo 4: Continued from photo 2. Photo taken from east end of the sediment trap, facing south. Photo shows a culvert leading from the adjacent lands to the south, into the sediment trap. Based on the topography observed, it would appear as though water from the adjacent lands would travel through the culvert and into the sediment trap. Culvert inlets have not been protected/armored in accordance with good engineering practices.

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Photo 5: Continued from photo 4, photo shows culvert leading to sediment trap on the south end of the access road. See comments under photo 4.



Photo 6: Photo taken from the east end of the Location (Location entrance), facing southwest. Photos 6-8 provide an overview of the Location from southwest, west to northwest.

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Photo 7: See comments under photo 6.



Photo 8: See comments under photo 6.

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Photo 9: Photo taken from east end of the Location (southwest from the entrance). Photo shows area of the Location where Operator appears to have constructed stormwater diversion ditch to discharge stormwater from the pad off Location through a culvert (arrow). BMP has not been constructed in accordance with good engineering practices; BMP missing sufficient inlet/outlet protection to trap sediment and allow for sediment laden-free stormwater discharge.



Photo 10: Continued from photo 9. Photo shows culvert outlet leading off Location. See comments under photo 9.

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Photo 11: Photo taken from the south corner of the Location facing northwest. Photos 11-13 provide an overview of the Location from northwest, north to northeast. Photos show areas of the Location that are not needed for production and needs to be reclaimed in accordance with 1003 rules.



Photo 12: See comments under photo 11.

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Photo 13: See comments under photo 11.



Photo 14: Photo taken from the southwest end of the Location facing northwest. Photos 14-17 provide an overview of the Location from northwest, north to northeast to east. Photos show areas of the Location that are not needed for production and needs to be reclaimed in accordance with 1003 rules.

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Photo 15: See comments under photo 14.



Photo 16: See comments under photo 14.

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Photo 17: See comments under photo 14.



Photo 18: Photo taken from the western corner of the Location, facing west. Photo shows slopes of the Location have not been stabilized; erosion degradation evident.

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Photo 19: Photo taken from the western corner of the Location, facing southwest. Photo shows slopes of the Location have not been stabilized; erosion degradation evident.



Photo 20: Photo taken from the western corner of the Location, facing southwest. Photo shows slopes of the Location have not been stabilized; erosion degradation evident.

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Photo 21: Photo taken from the western corner of the Location facing northeast. Photos 21-23 provide an overview of the Location from northeast, east to southeast. Photos show areas of the Location that are not needed for production and needs to be reclaimed in accordance with 1003 rules.



Photo 22: See comments under photo 21.

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Photo 23: See comments under photo 21.



Photo 24: Photo taken from the northwest end of the Location, facing northeast. Photos 24-27 provide an overview of the Location from northeast, east, southeast to south. Photos show an overview of the Location, including areas of the Location that are not needed for production and needs to be reclaimed in accordance with 1003 rules.

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Photo 25: See comments under photo 24.



Photo 26: See comments under photo 24.

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Photo 27: See comments under photo 24.



Photo 28: Photo taken from the soil stockpile on the northwest end of the Location. Photo shows erosion degradation evident on slopes.

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Photo 29: Photo taken from the perimeter of the Location's disturbance area. Operator appears to have installed straw wattles along the northwest/north/northeastern perimeter of the Location. BMPs appear to have remained intact but also show signs of degradation; maintenance advised.



Photo 30: Photo taken from the northern end of the Location, facing southeast. Photos 30-32 provide an overview of the Location from southeast, south to southwest.

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Photo 31: See comments under photo 30.



Photo 32: See comments under photo 30.

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Photo 33: Photo taken from a drainage on the northeast end of the Location. Photo shows Operator has installed straw wattles and straw bales as stormwater BMPs. BMPs appear to have remained intact but also show signs of degradation; maintenance advised.



Photo 34: See comments under photo 33.

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Photo 35: Photo taken from the stormwater ditch on the northeast end of the pad. Stormwater ditch has not been constructed with a proper outlet to allow for stormwater discharge; A berm has been constructed across the ditch damming the ditch.



Photo 36: Continued from photo 35. Photo also shows riser identified in FIR 698100016 remaining on the Location; Corrective actions required Operator to remove riser.

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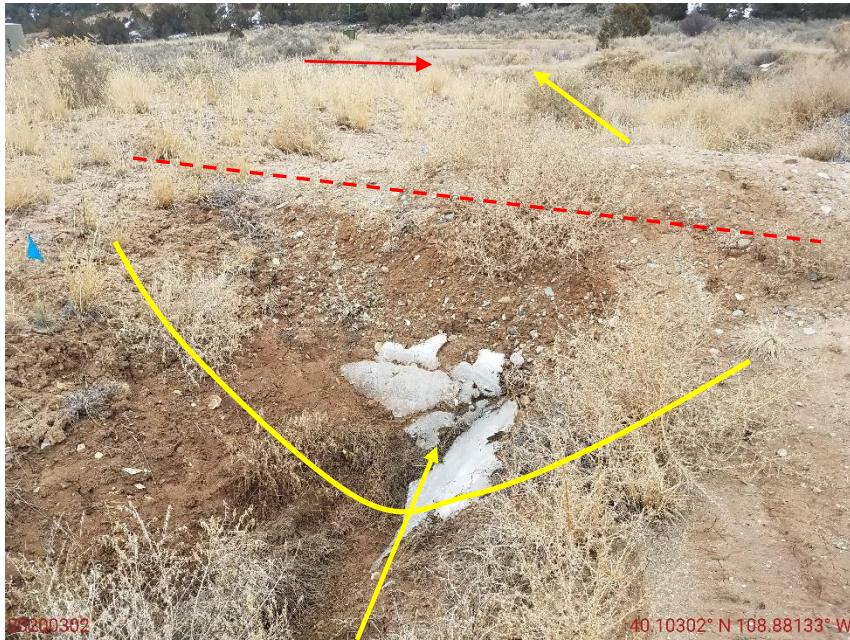


Photo 37: Continued from photo 35. Photo shows berm (red) across the ditch (yellow). Sediment trap in background (red arrow).



Photo 38: Photo taken from the slopes on the southwest end of the Location. Photo shows areas of the slopes that have not been sufficiently stabilized.

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Photo 39: See comments under photo 28.



Photo 40: Photo taken from the Location, facing northwest. Photo shows the four (4) active wells on the Location.

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Photo 41: Photo of a 300 bbl sand AST towards the southwest end of the Location.



Photo 42: Photo of riser on the adjacent to well 045-22423. Equipment appears to be unused/unneeded.

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Photo 43: Additional riser adjacent to the wells. Equipment appears to be unused/unneeded.



Photo 44: Two methanol tanks at wells.

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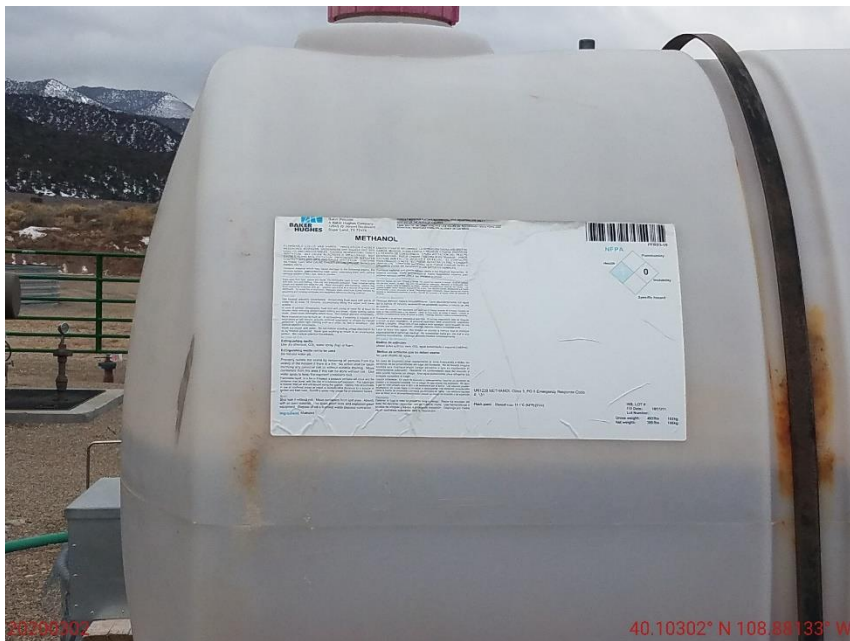


Photo 45: Label on methanol tanks



Photo 46: Additional riser/pipe adjacent to the wells.
Equipment appears to be unused/unneeded.



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Photo 47: Additional riser/pipe adjacent to the wells. Equipment appears to be unused/unneeded.



Photo 48: ECD on north end of the Location.

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Photo 49: Photo of the tank battery on the north end of the Location.



Photo 50: Photo shows the two (2) 400 BBL crude oil ASTs.

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Photo 51: Photo shows the two (2) 400 BBL produced water ASTs.



Photo 52: Photo shows fluids within secondary containment. Fluids like stormwater from snowmelt within berms.



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Photo 53: Photo of pipe on north end of the location.



Photo 54: Photo of metershed, methanol tank and SAE 40 tank

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Photo 55: Photo of labeling on tank.



Photo 56: Photo of labeling on tank.



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Photo 57: Photo taken from the northeast end of the Location. Photo shows 5 additional riser/pipe on Location. Equipment appears to be unused/unneeded.



Photo 58: Continued from photo 57. Photo shows cap material degrading.

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Photo 59: Photo of equipment on the northeast end of the Location.



Photo 60: Photo of equipment on the northeast end of the Location.

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Photo 61: 2019 Google Earth Aerial imagery. 2A #400820779 states size of Location post interim reclamation to be 2.67 acres. Photo shows Reclamation Specialist measured the area of the current production area, including stormwater BMPs via a Trimble handheld GPS unit; The current production area is 4.5 acres in size. Interim reclamation has not been conducted. Photo shows areas on the west, south and eastern ends of the current pad that do not appear to be needed for production activities.

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Photo 62: 2019 Google Earth Aerial imagery. Photo shows total disturbance area of the Location (red) to be 6.32 acres in size. Current area of the pad (including sediment trap) is ~4.5 acres.

