

# Interim Reclamation and Stormwater Inspection

Date: 05/02/2024

Operator: WESTERN OPERATING COMPANY - 95620

Location ID: 312291

Inspection Document #: 708201239

Logan County, CO

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**COLORADO**  
Energy & Carbon Management  
Commission  
Department of Natural Resources



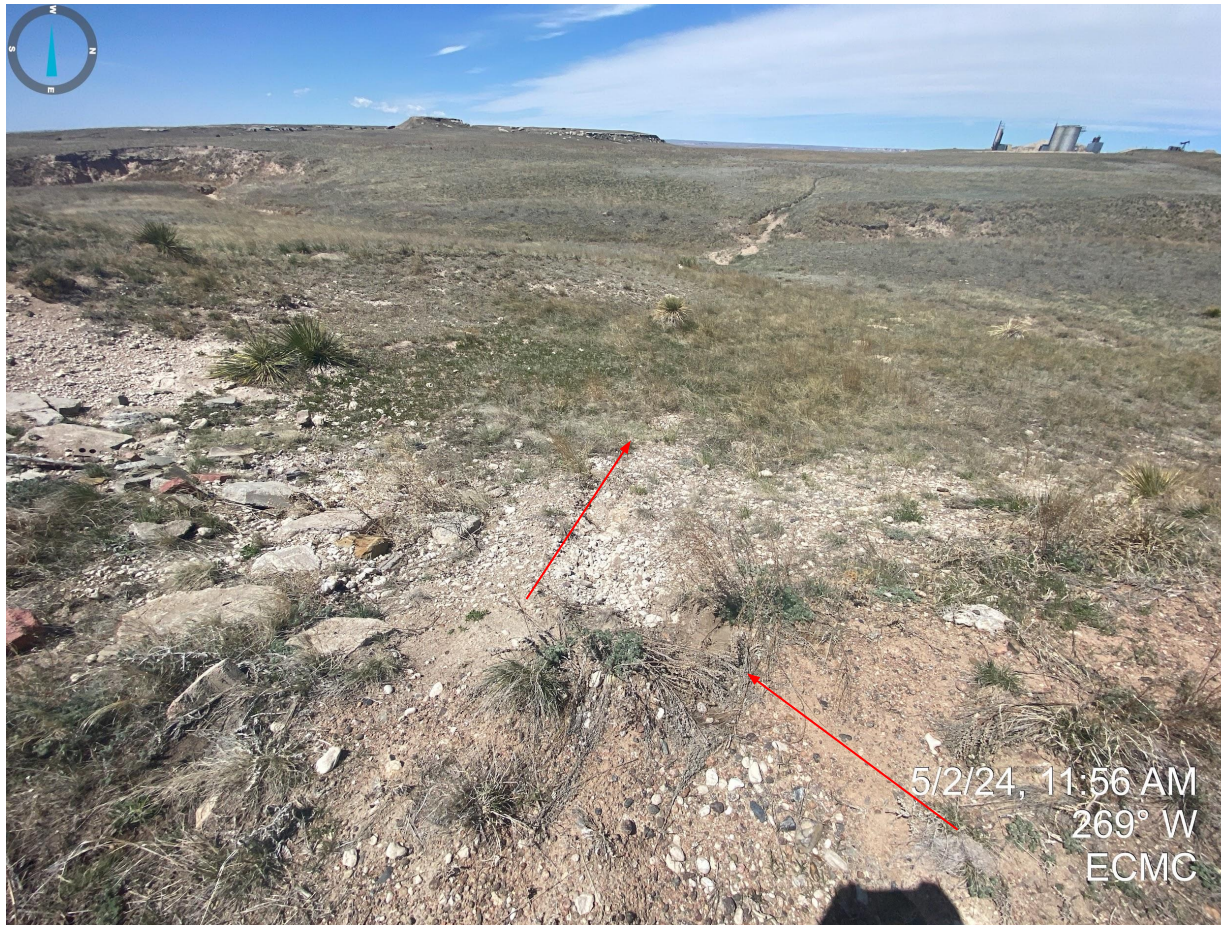
**Photo 1.** Areas experiencing erosion degradation throughout the production areas do not appear to have been repaired/stabilized and there is no evidence of stormwater controls measures/BMPs having been implemented.





**Photo 2.** Areas experiencing erosion degradation throughout the production areas do not appear to have been repaired/stabilized and there is no evidence of stormwater controls measures/BMPs having been implemented.





**Photo 3.** Western portions of the interim areas do not appear to have been repaired/stabilized and there is no evidence of stormwater controls measures/BMPs having been implemented.





**Photo 4.** Taken from the access road east of the pit. Evidence of erosion degradation, previously documented, does not appear to have been repaired/stabilized with no evidence of control measures/BMPs observed that would prevent further erosion of the access road.



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**Photo 5.** Taken from the production areas, near the access road; see comments in Photo 4.



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**Photo 6.** Taken from the access road east of the pit; see comments in Photo 4.



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**Photo 7.** Taken from the access road east of the pit; see comments in Photo 4.



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**Photos 8 & 9.** Taken from the access road east of the pit; see comments in Photo 4.





**Photo 10.** Stormwater control measures installed near the production areas/access road do not appear to be properly installed per good engineering practices (e.g. trenched and backfilled).



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**Photos 11 & 12.** Free fluids observed within the day tank secondary containment.



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**Photo 13 & 14.** Stained soil observed within the injection well shed.





**Photo 15.** The produced water pit does not have adequate netting that would exclude wildlife entry.





**Photo 16.** Taken from the north side of the stockpiled soils. No perimeter stormwater control measures/BMPs, or impermeable liners underneath the stockpile were observed during this inspection. Impacted soils appear to have been placed directly on top of undisturbed lands. Additionally, it does not appear that topsoil has been salvaged Per Rule 1002.b prior to stockpiling the soil on undisturbed portions of land.



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**Photo 17.** Taken from the west side of the stockpiled soils; see comments in Photo 16.



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**Photo 18.** Taken southwest of the excavated area and stockpiled material; see comments in Photo 16.



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**Photo 19.** Taken from the southwest corner of the stockpiled material; see comments in Photo 16.





**Photo 20.** Taken from the southern portion of the stockpiled material; see comments in Photo 16.



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**Photo 21.** Taken from the southeast corner of the stockpiled material; see comments in Photo 16.





**Photo 22.** Taken southeast of the excavated area and stockpiled material; see comments in Photo 16.





**Photo 23.** Photo illustrates excavated soil from the previously identified salt kill impacts. Soils within the excavation and stockpiles are not properly stabilized as they have been left unconsolidated. Unconsolidated material can become a potential source of pollution and is susceptible to wind and water erosion degradation.



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**Photo 24.** Taken from the southeastern portion of the pit. Photo illustrates erosion degradation on the pit walls and inadequate stormwater control measures around the base, or perimeter, of the pit.



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**Photo 25 & 26.** Southeast corner of the pit; see comments in Photo 24.





**Photo 27.** Taken from the east side of the pit; see comments in Photo 24.



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**Photo 28.** Taken from the east side of the pit; see comments in Photo 24.

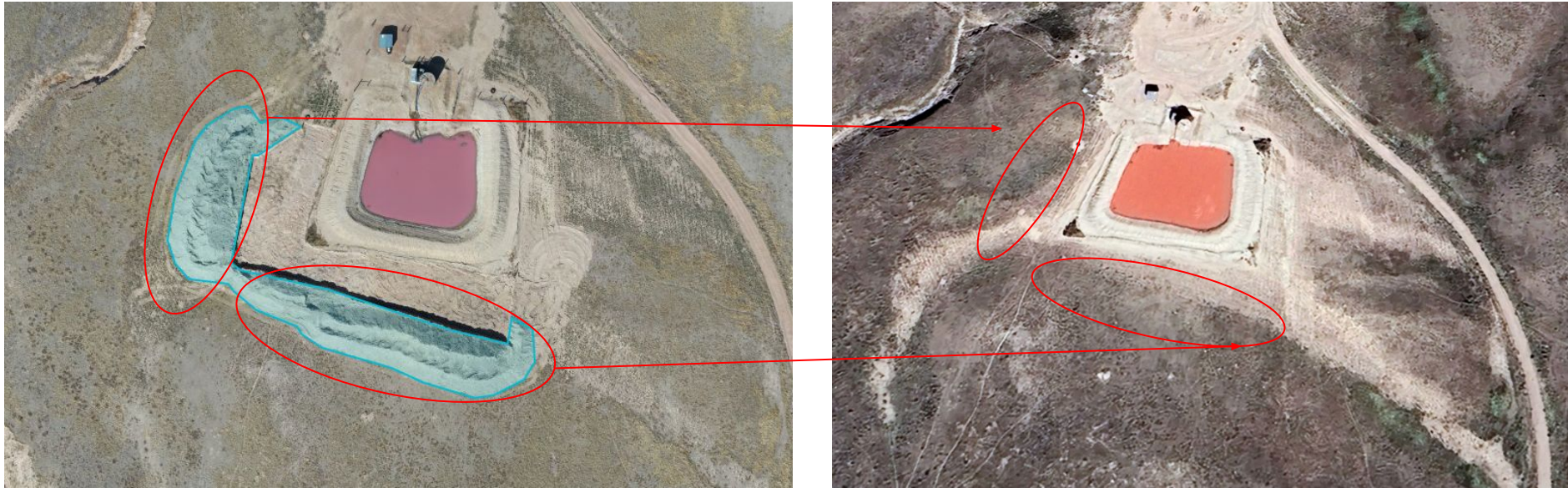




**Photo 29.** Google Earth aerial imagery taken circa 09/2023. Image illustrates the approximate extent of the impacted salt kill areas, highlighted in red. Note: the red outline is only an approximate extent as the Operator is required to fully delineate the extent of the salt kill impacts.



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**Photo 30 & 31.** Drone aerial imagery (03/20/2024) on left; Google Earth Aerial imagery (circa 09/2023) on right. Red polygons illustrate approximate positions of stockpiled soil placed on undisturbed portions of land that also did not have any apparent topsoil salvage.