

Interim Reclamation and Stormwater Inspection

Date: 04/20/2023

Operator: IMPETRO RESOURCES LLC -10690

Location ID: 317357

Inspection Document #: 708200181

Washington County, CO

NENW Section 12 T3S R50W

Dylan Edwardson
Reclamation Specialist, COGCC



COLORADO
Oil & Gas Conservation
Commission

Department of Natural Resources

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 1. Production areas don't appear to be properly stabilized with evidence of deep rutting.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 2. Hydrocarbon soaked filter media observed on the north side of the pit will need to be properly disposed of, including any stained soil. Also pictured, pit walls do not appear to be properly stabilized with evidence of unconsolidated material and sediment deposition at the foot of the wall.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 3. See comments in Photo 2.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 4. Interim areas around the well do not appear to be progressing towards reclamation standards. Non-uniform vegetation cover resulting in exposed/bare soil was evident in the areas north of the pumpjack. Soil will need to be properly stabilized with vegetation cover reflective of adjacent areas to prevent degradation and meet Rule 1003 standards

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 5. See comments in Photo 4.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 6. Road drag/maintainer being stored on location will need to be removed. Storage of equipment, supplies, etc is prohibited on location.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 7. South pit walls do not appear to be properly stabilized with evidence of unconsolidated material and sediment deposition at the base of the wall.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 8. Appears the location is being used as a storage yard. Storage of equipment is prohibited on location.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 9. See comments in Photo 8. Barrels appear to be empty but are not upright or within secondary containment.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 10. Stained soil observed around equipment. The operator is required to clean up all stained soil (including areas not identified in inspection photos) per Rule 912.b. Additionally, Operator shall perform maintenance on equipment, fittings, connections, etc to ensure good mechanical condition per Rule 608.e.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357

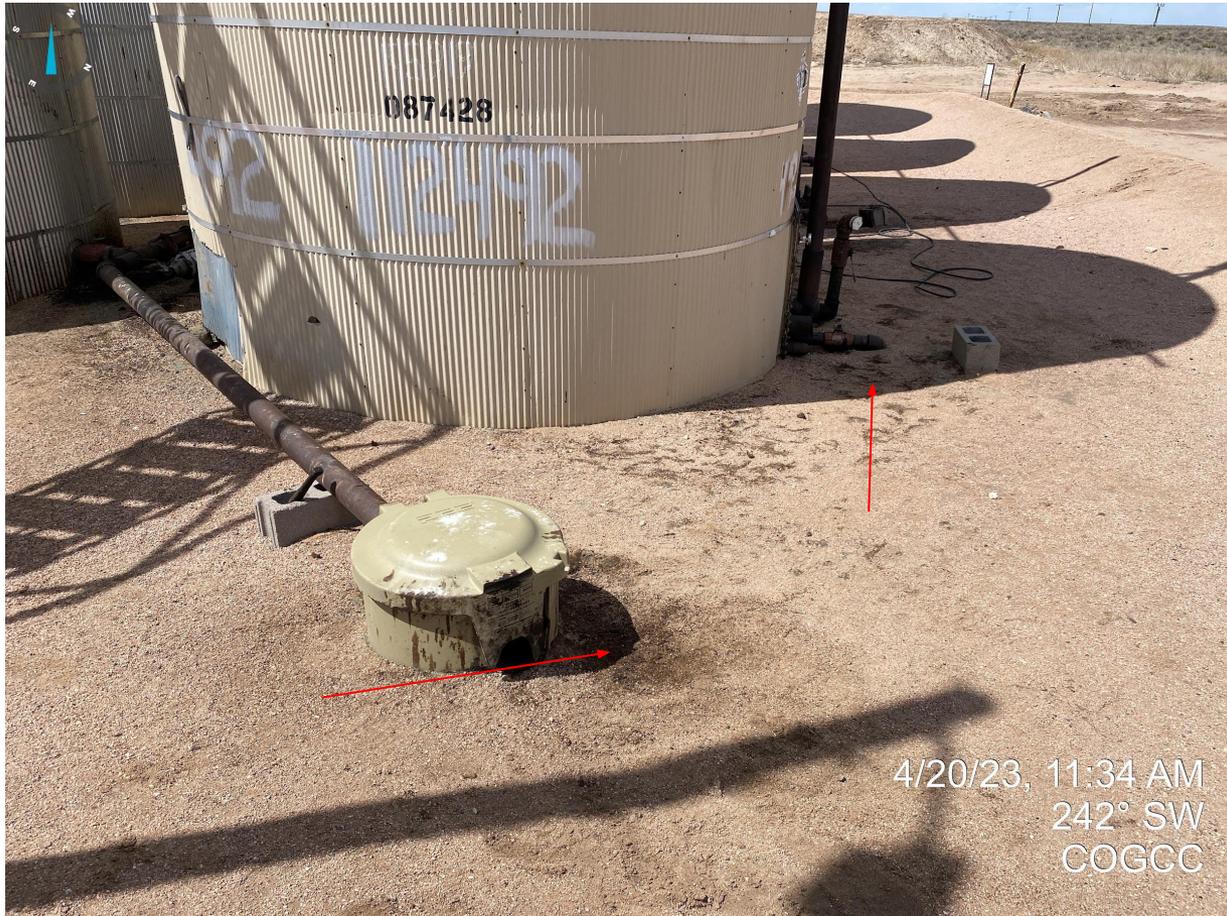


Photo 11. See comments in Photo 10.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 12. See comments in Photo 10.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 13. See comments in Photo 10

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 14. See comments in Photo 10.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 15. See comments in Photo 10.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



4/20/23, 11:36 AM
218° SW
COGCC

Photo 16. See comments in Photo 10.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357

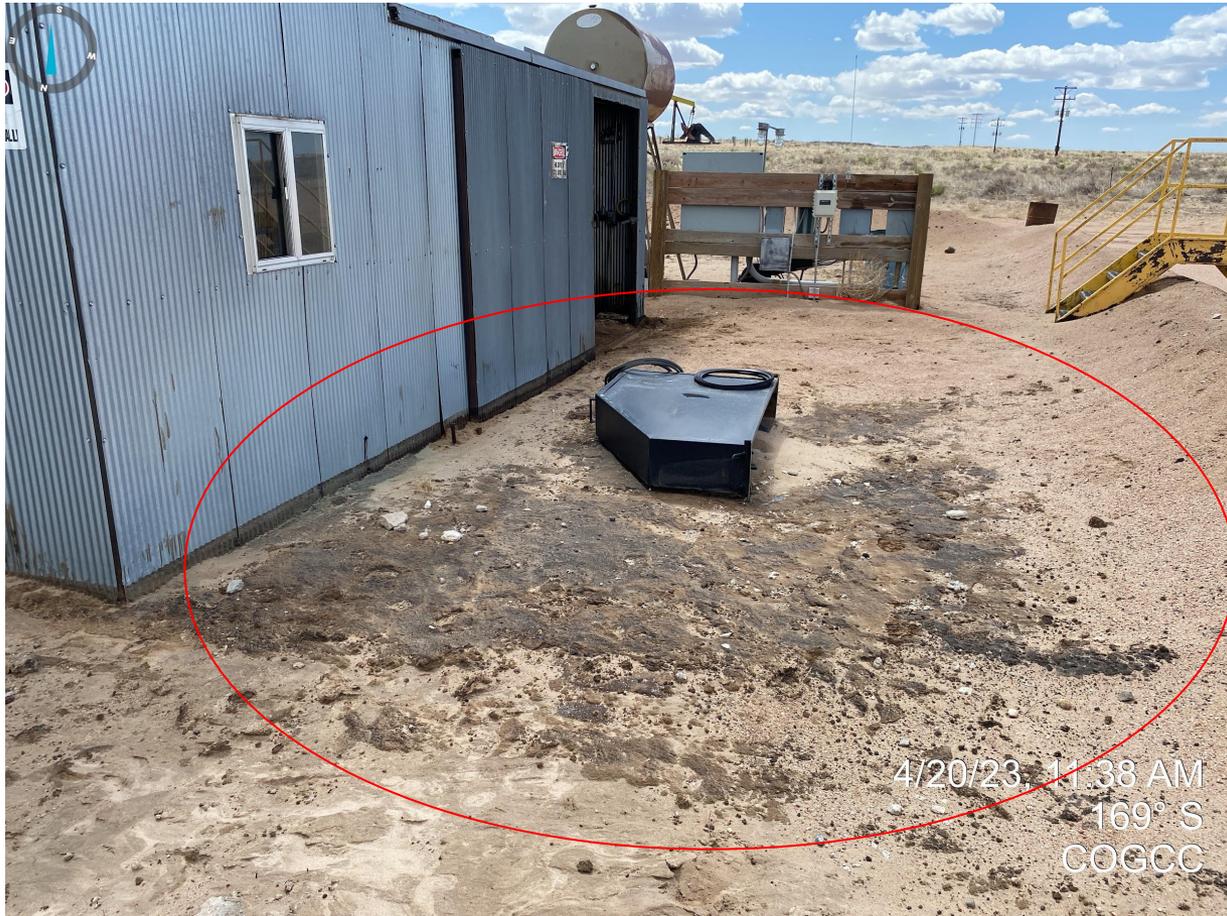


Photo 17. See comments in Photo 10.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 18. See comments in Photo 10.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 19. See comments in Photo 10.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 20. Unused equipment will need to be removed from the location.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 21. Stormwater ditch/diversion was constructed near the northwest portion of the location's entrance leading to off-site sediment transport into adjacent bar ditch. It does not appear that a properly engineered sediment basin was constructed in this area as it is a natural low point on the location. More robust stormwater BMPs must be implemented to manage stormwater run on and run off to prevent further degradation to adjacent land.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 22. See comments in Photo 21.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 23. Photo illustrates sediment deposition into adjacent lands. See comments in Photo 21.

Inspection Photos
Location Name: Christianson 21-12
Location ID: 317357



Photo 24 & 25. Google Earth aerial imagery illustrating progression of gully erosion occurring off of the production area. Left image is from 2016 and right is from 2022. More robust stormwater BMPs will need to be implemented to comply with Rule 1002.f.