

Inspection Photos

1/25/2019

Operator: MALLARD EXPLORATION LLC # 10670

Location ID: 453517

Inspection Doc. Number: 682504449

Lincoln County, CO

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COGCC

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Photo 1: 2013 Google Earth aerial imagery. Photo shows areas of disturbance for the location mapped using a Trimble Juno 3B handheld device. Red polygon shows area of total disturbance (13.5 acres), brown indicates area of the topsoil stockpile (1.5 acres), and yellow indicates the area of the constructed pad (8.95 acres). Total disturbance appears to be in compliance with the approved Form 2A for the permitted disturbance area.



Photo 2: Photo taken from the southwest corner of the disturbance area, facing north. Operator appears to have installed a stormwater ditch and berm BMP along the perimeter of the disturbance area. Ditch/Berm BMP is shallow with unconsolidated material. Ditch/Berm BMP does not appear to have been constructed in accordance with good engineering practices, is improper and insufficient.



Photo 3: Photo taken from the southwest corner of the disturbance area, facing east. Photo shows ditch/berm BMP along perimeter of the location. See comments under photo 2.



Photo 4: Photo taken from the southwest corner of the location. Photo shows ditch/berm BMP along perimeter of the location. See comments under photo 2.



Photo 5: Photo taken from the northwest corner of the location, facing south. Photo shows ditch/berm BMP along perimeter of the location. See comments under photo 2.



Photo 6: Photo taken from the northwest corner of the location, facing south. Photo shows ditch/berm BMP along perimeter of the location. See comments under photo 2. Photo also shows ongoing wind erosion and sediment transport off the location.



Photo 7: Photo taken from the northwest corner of the location, facing east. Photo shows ditch/berm BMP along perimeter of the location. See comments under photo 2.



Photo 8: Photo taken from the northeast corner of the location, facing west. Photo shows ditch/berm BMP along perimeter of the location. See comments under photo 2.



Photo 9: Photo taken from the southeast corner of the location, facing west. Photo shows ditch/berm BMP along perimeter of the location. See comments under photo 2.



Photo 10: Photo taken from the southeast corner of the location, facing north. Photo shows ditch/berm BMP along perimeter of the location. See comments under photo 2

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Photo 11: Photo taken from the southwest corner of the pad. Operator appears to have constructed a ditch along the northern end (with exception to the northeast corner), the eastern and southeastern areas of the constructed pad. Photo shows area of the pad on the southwest where the ditch ends. Required stormwater and erosion control BMPs do not appear to have been installed (or constructed in accordance with good engineering practices) along the western, northwest and northeastern areas of the constructed pad. See photos 12



Photo 12: Photo taken from the southwest corner of the pad, facing northwest. See comments under photo 11.



Photo 13: Photo taken from the northwest corner of the pad, facing east. Sufficient stormwater and erosion control BMPs do not appear to have been installed on the northeast corner of the pad. See comments under photo 11.



Photo 14: Photo taken from the northwest corner of the pad, facing southeast. Sufficient stormwater and erosion control BMPs do not appear to have been installed on the northeast corner of the pad. See comments under photo 11.



Photo 15: Photo taken from the west end of the pad, facing south. Photo shows stormwater and erosion control BMPs do not appear to have been installed in accordance with good engineering practices, and is insufficient. See comments under photo 11.



Photo 16: Photo taken from the northwest corner of the pad, facing north. Sufficient stormwater and erosion control BMPs do not appear to have been installed on the northwest corner of the pad. See comments under photo 11.



Photo 17: Photo taken from the northwest corner of the pad, facing south. Sufficient stormwater and erosion control BMPs do not appear to have been installed on the northwest corner of the pad. See comments under photo 11.



Photo 18: Photo taken from the northwest corner of the pad, facing east. Sufficient stormwater and erosion control BMPs do not appear to have been installed on the northwest corner of the pad. See comments under photo 11. Photo also shows areas where a ditch appears to have been constructed on the north end of the pad.



Photo 19: Photo taken from the southwest end of the pad, facing north. Photo shows stormwater and erosion control BMPs do not appear to have been installed in accordance with good engineering practices, and is insufficient. See comments under photo 11.



Photo 20: Photo taken from the southwest end of the pad, facing north. Photo shows stormwater and erosion control BMPs do not appear to have been installed in accordance with good engineering practices, and is insufficient. See comments under photo 11.



Photo 21: Photo taken from the north end of the location, facing east. Photo shows areas of the cutslope, where a large ditch appears to have been constructed. Yellow line indicates top of pad. Photos 21-25 also provide an overview of the constructed pad from east, southeast, southwest to west.



Photo 22: See comments under photo 21.



Photo 23: See comments under photo 21



Photo 24: See comments under photo 21.



Photo 25: See comments under photo 21.



Photo 26: Photo taken from the south end of the topsoil stockpile, facing north.



Photo 27: Photo taken from the west end of the topsoil stockpile, facing northeast. Photos shows topsoil stockpile has not been stabilized and remains loose material, and sufficient stormwater and erosion control BMPs do not appear to have been installed.



Photo 28: Photo taken from the northeast corner of the pad, facing south. Sufficient stormwater and erosion control BMPs do not appear to have been installed on the northeast corner of the pad. See comments under photo 11.



Photo 29: Photo taken from the northeast corner of the pad, facing east. Sufficient stormwater and erosion control BMPs do not appear to have been installed on the northeast corner of the pad. See comments under photo 11.



Photo 30: Photo taken from the northeast corner of the location, facing southwest. Sufficient stormwater and erosion control BMPs do not appear to have been installed on the northeast corner of the pad. See comments under photo 11.



Photo 31: Photo taken from the southeast corner of the pad, facing west. Photo shows operator appears to have installed a ditch and sediment pond on the southeast end of the pad.



Photo 32: Photo taken from the southeast corner of the pad, facing north. Photo shows operator appears to have installed a ditch and sediment pond on the southeast end of the pad.



Photo 33: Photo taken from the south end of the location, facing west. See comments under photo 11.



Photo 34: Photo taken from the southwest end of the location, facing east. Photo shows wind erosion transporting sediment offsite. This does not comport with rule 1002.e and 1002.f



Photo 35: Photo taken from the southwest end of the location, facing southeast away from the location. Photo shows wind erosion transporting sediment offsite. This does not comport with rule 1002.e and 1002.f



Photo 36: Photo taken from the west end of the location, facing northeast. Photo shows wind erosion transporting sediment offsite. This does not comport with rule 1002.e and 1002.f



Photo 37: Photo taken from the west end of the location, facing southeast. Photo shows wind erosion transporting sediment offsite. This does not comport with rule 1002.e and 1002.f



Photo 38: Photo taken from the stormwater ditch on the east end of the location. Photo shows sediment deposition due to wind erosion within the ditch.



Photo 39: Photo taken from CR 86 ~1/2 mile east of the location (star), facing west towards the location. Photo shows wind erosion transporting sediment from the location offsite to the southeast.



Photo 40: Photo taken from CR 105, ~1 mile southeast of the location, facing northwest towards the location. Photo shows wind erosion transporting sediment from the location offsite to the southeast.