




MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Kues Gravel Pit	MINE/PROSPECTING ID#: M-1983-187	MINERAL: Sand and gravel	COUNTY: Logan
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: August 29, 2023	INSP. TIME: 12:00
OPERATOR: Logan County	OPERATOR REPRESENTATIVE: Jeff Reeves	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: N/A	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Nikie Gagnon	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: October 23, 2023	

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection was conducted as part of the Division of Reclamation, Mining and Safety's (Division or DRMS) routine monitoring program for permitted operations. Nikie Gagnon, with the Division, conducted the inspection. Jeff Reeves and Rob Kasper, representing Logan County (Operator) accompanied the Division during the inspection.

The Kues Gravel Pit is located approximately 6 miles west of Flemming, Colorado, 0.5 mile north of US 6 on CR 67. The site is a 112c operation permitted for 86.82 acres. Affected lands will be reclaimed to support a rangeland post-mining land use. At the time of the inspection, it was clear and warm. The site was not active at the time of inspection and no equipment was observed on-site.

Gen. Compliance With Mine Plan:

The Kues Gravel Pit was originally a 110c operation permitted to affect 50.46 acres. The Division approved a conversion to a 112c permit in January 2002 which expanded the permitted acres to 80.65. This is an active mining operation. The disturbance area covers approximately 40 acres. Over the years, mining moved from east to west across the permitted area and is now occurring in the conversion expansion area. A u-shaped cut face, approximately 1000 ft long wraps around the west side of the excavated pit area. The mined slopes area approximately 15-20 feet high and the slopes range from vertical to 3H:1V. Two large stockpiles of mined material are located on the pit floor. Topsoil is stored in vegetated berms along the access road and above the highwall.

Portions of the original 110c operation on the eastern side of the permit area have been graded and revegetated with the approved seed mixture and appeared stable. According to the approved Reclamation Plan, full reclamation activities will not begin until all mining operations cease, however, ongoing reclamation efforts (sloping and seeding) will occur as areas are mined.

Hydrologic Balance:

An unnamed dry creek runs diagonally across the northeast corner of the permit area. According to the 2002 conversion application, this creek bed is normally dry and may only run in the event of heavy rain. According to the Operator, Logan County had abnormally high precipitation this year. The approved Mine Plan states that any temporary interruption in the drainage pattern will be corrected by re-sloping the affected area as closely to the original contours as possible with no slope greater than 3:1.

This site was last inspected by DRMS on June 5, 2019. At that time, the inspector noted the pit floor contained several areas of ponding water due to recent rain events. During this inspection, ponded water was observed in a depression in a previously mined area on the east side of the active pit, and in an unmined area on the north side of the permit area. Cattle was observed around the pond on the north side, which is where the ephemeral drainage flows through the parcel. The Division and the Operator discussed options for reworking the site grading or installing stormwater management structures to prevent water accumulation. The Operator should be aware that Rule 3.1.6(1)(a) states "Disturbances to the prevailing hydrologic balance of the affected land and of the surrounding area and to the quantity or quality of water in surface and groundwater systems both during and after the mining operation and during reclamation shall be minimized by measures, including, but not limited to compliance with applicable Colorado water laws and regulations governing injury to existing water rights." The Division of Water Resources (DWR) requires that any stormwater runoff intercepted by this operation that is not diverted or captured in priority must infiltrate into

the ground or be released to the stream system within 72 hours; otherwise the operator will need to make replacements for evaporation through a substitute water supply plan approved by DWR or a plan for augmentation decreed by the water court.

If the Operator decides to install any stormwater management structures, the County will need to submit a Technical Revision to change the mine plan for the site. Otherwise, the Division recommends regrading to prevent future ponding of water, as stated in the approved Mine Plan.

The Colorado Public Health and Environment data was reviewed. The County holds an active stormwater discharge permit (no. COG502041). The site was last inspected on 12/6/2022 and the monitoring report was submitted to CDPHE on March 3, 2023.

Signs and Markers:

A mine sign was posted in accordance with Rule 3.1.12(1) at the entrance to the pit and the boundaries are marked in the corners with wood and metal posts. A barbed wire fence runs along the eastern and northern boundaries.

This concludes the Division's Inspection Report; a subset of photographs taken during the time of the inspection are included below. If you need additional information or have any questions, please contact me at Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303866-3567 x8126, or by email at nikie.gagnon@state.co.us.

PHOTOGRAPHS



Photo 1: Looking east into the pit from the western highwall. Slopes are 3H:1V and vegetated on the east side of the permit area. Stockpiles of material are located on the pit floor (arrows). Stormwater collection areas circled in background.



Photo 2: Looking northwest across the slope on the active mine face.



Photo 3: Topsoil stored on the western side of the permit area, above the active mining area.



Photo 4: Looking north across eastern side of the permit area. Red arrow points to boundary marker.

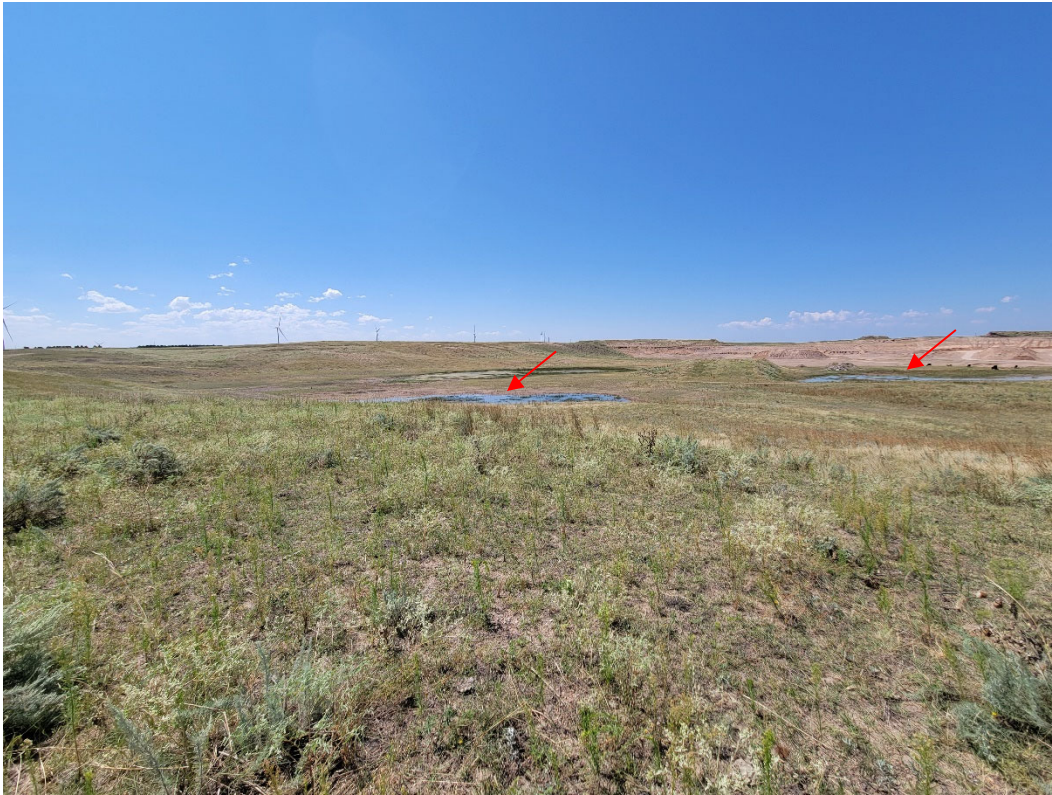


Photo 5: Looking west from the eastern side of the permit area. Stormwater observed in two areas noted by arrows.



Photo 6: Close-up view of water in depression on the east side of the active pit area.



Photo 7: Looking north at pond in an unmined area along the unnamed drainage on the north side of the permit.



Image 1: Approximate location of permit boundary. Google Imagery dated

Inspection Contact Address

Jeff Reeves
Logan County
12603 CR 33
Sterling, CO 80751

CC: Amy Eschberger with DRMS