



COLORADO


Division of Reclamation,
Mining and Safety

Department of Natural Resources

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: Kunau Site	MINE/PROSPECTING ID#: M-2008-025	MINERAL: Gravel	COUNTY: El Paso
INSPECTION TYPE: Monitoring	INSPECTOR(S): Timothy A. Cazier	INSP. DATE: April 10, 2018	INSP. TIME: 12:00
OPERATOR: Tim Kunau	OPERATOR REPRESENTATIVE: John Juarez	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$11,218.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: May 4, 2018	

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

Y = Inspected and found in compliance / 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 regular monitoring program. The Permittee (Tim Kunau) was represented by Mr. John Juarez during the inspection. The Kunau Site is accessed from Yoder Rd approximately 4.5 miles north of Yoder. This is a 110c gravel mine. It was not operating at the time of the inspection.

Availability of Records: Annual fees are paid through February 2018. The previous inspection was on March 4, 2014. The approved post-mine land use is pasture land. There are no open infractions.

Backfilling and Grading: East and west highwalls appeared to be sloped at 5H:1V or flatter (see **Photo 1**), whereas the north and south highwalls were sloped closer to 3H:1V (see **Photo 2**). As such, no backfill was required at the time of this inspection.

Excess Spoil and Dev. Waste: No overburden piles were observed, Mr. Juarez indicated there is no difference between topsoil and overburden at the site.

Financial Warranty: The \$11,218 bond held by the Division is adequate for the observed mine disturbance.

Fish and Wildlife: No impact to fish or wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit and no exposed groundwater was observed.

Gen. Compliance with Mine Plan: The operation generally appeared to be in compliance with the approved mine plan. Google Earth imagery for the site has not been updated since August of 2013. Therefore, it was not used to measure the disturbed area. A hand held GPS unit (Trimble Juno 3B) was used to record the location of the four permit area boundary markers for the North Pit. Subsequent data processing demonstrated the marked area was approximately 4.6 acres. Highwalls were estimated to vary between six and eight feet in height and appeared stable.

Off-site Damage: The operation appeared to be confined to the permit boundary, based on site observations. It should be noted the current access road runs through the area designated as the future south pit (see **enclosed post inspection map**).

Processing Waste: No processing waste piles were observed.

Roads: The access road did not appear to be a source of sediment that could be tracked offsite as the material is fairly granular and the access road is approximately 0.4 mile long.

Reclamation Success: No reclamation has been initiated.

Revegetation: No revegetation had been initiated. No noxious weeds were observed.

Sediment Control: No erosion problems were observed and no BMPs were needed at the time of the inspection.

Support Facilities On-site: No support facilities were observed. However, a house trailer in poor condition was observed within the permit boundary (see **Photo 3**).

Signs and Markers: The permit sign was properly posted (see **Photo 4**) and boundary markers were observed

to delineate the permit boundary (see **Photo 5**).

Permit Stipulations: There is a commitment to request an increase to the financial warranty prior to opening the "South Pit".

Storm Water MGT Plan: No oil or fuel spills observed. Ditches (see **Photo 6**) were observed intended to divert runoff away from the pit and towards a stormwater pond on the southwest corner of the existing pit. Stormwater captured within the pit, infiltrates.

Topsoil: A topsoil stockpile was observed on the north side of the existing pit (see **Photo 7**).

Please contact Tim Cazier (303)866-3567 ext. 8169 or email at tim.cazier@state.co.us if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. East (center background) and west (foreground) highwalls sloped at 5H:1V or flatter (looking NE).

PHOTOGRAPHS (cont.)



Photo 2. North (left) and west (right) highwalls sloped at 3H:1V or flatter.



Photo 3. House trailer in poor condition within permit boundary (south side, looking west).

PHOTOGRAPHS (cont.)



Photo 4. Permit sign (at gated entrance, looking east).



Photo 5. Typical permit boundary marker (SE corner, looking north).

PHOTOGRAPHS (cont.)



Photo 6. West side diversion ditch (looking north).

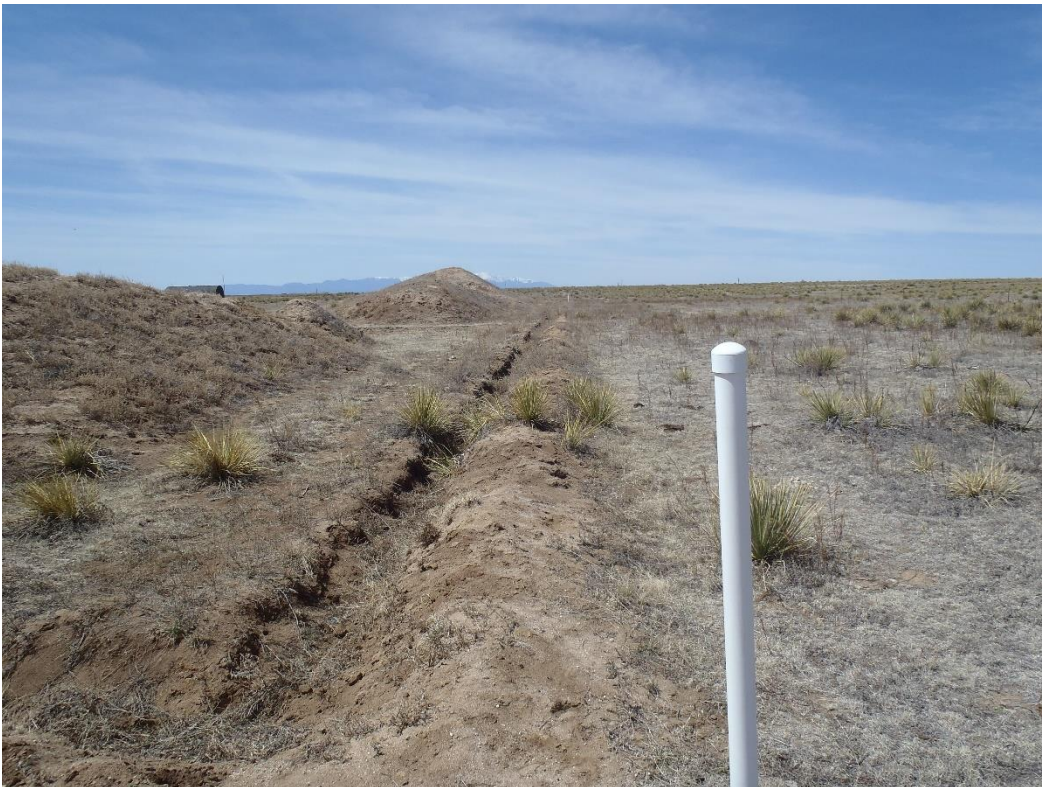


Photo 7. North pit topsoil stockpiles (north side, looking west).

Inspection Contact Address

Tim Kunau
23945 Lucky Lane
Calhan, CO 80808

ec: DRMS file

M-2008-025 Post 2018 Inspection Map

Satellite Imagery from 8/28/2013
Non GPS features based on AM-01 Exhibit C overlay

- Legend**
- 20 ft Access Rd (AM-1)
 - Corner Post - GPS
 - Kunau Site
 - North Pit
 - North Pit GPS boundary
 - North Topsoil Stockpile
 - Property?
 - South Pit
 - South Topsoil Stockpile

