




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: Hogback Mine	MINE/PROSPECTING ID#: M-1980-245	MINERAL: Clay (general)	COUNTY: Douglas
INSPECTION TYPE: Monitoring	INSPECTORS: Peter S. Hays, Wally Erickson	INSP. DATE: December 18, 2017	INSP. TIME: 10:00
OPERATOR: General Shale Brick, Inc.	OPERATOR REPRESENTATIVE: Jason McGraw	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$236,538.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: December 22, 2017	

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>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</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>N</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 and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

The Hogback Mine was inspected by Peter Hays and Wally Erickson with the Division of Reclamation, Mining and Safety (Division/DRMS) as a follow up inspection to verify the safeguarding of the mine stopes on the site. Mr. Jason McGraw with General Shale Brick, Inc. was present during the inspection.

The site was previously inspected by the Division on July 28, 2017 following an incident on July 23, 2017 when a fourteen year old boy fell 100 feet down a mine stope located in the southern portion of the site while trespassing on the property. The boy was rescued by West Metro Fire and his injuries were reported to be non-life-threatening. Access to the mine site and the stopes were protected with barbed wire fence and Do Not Enter signage at the time of the incident.

The Division cited a problem following the July inspection for the mine stopes becoming a public safety hazard due to the establishment of residential homes surrounding the mine site and the ease of access to the mine site. The Division required the Operator to submit a technical revision explaining how the mine site would be additionally safeguarded to prevent access to the mine site and stopes. Instead of submitting the technical revision, the Operator informed the Division they would implement the approved Mine Plan for the stope area which includes the backfilling of the stopes. The backfilling of the stopes allows the clay deposit to be surface mined from the top of the ridge down in accordance with the approved Mine Plan.

A catchment berm was constructed with topsoil along the eastern boundary of the mine site prior to performing the backfill work to protect the houses downhill of the mine site from rocks rolling down the ridge.

The Operator informed the Division the backfilling of the stopes was completed on December 4, 2017. The backfilling of the stopes was accomplished using a D8 Dozer. The dozer ripped the sandstone deposit east of the clay deposit containing the stopes and backfilled the stopes with the sandstone material. Surge piles of material were placed over the previously backfilled stopes in the middle bench of the site to prevent the stopes from reopening as the backfill material settles. The upper stope bench appeared stable and the stopes are safeguarded from access by the public. The Division commends the Operator for safeguarding the stopes quickly to prevent further incidents from occurring at the site.

Inspection Contact Address

Mr. Jason McGraw
General Shale Brick, Inc.
1845 W. Dartmouth Ave.
Denver, CO 80110

Ec: Wally Erickson, DRMS

PHOTOGRAPHS



View of the backfilled stopes from the south end of the property



View of the backfilled stopes from the newly established upper bench looking south



View of catchment berm from the south end of the berm looking north



View of the surge pile over the backfilled stopes on the middle bench