




**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.

<b>MINE NAME:</b> Klement Pit	<b>MINE/PROSPECTING ID#:</b> M-2007-076	<b>MINERAL:</b> Gravel and sand	<b>COUNTY:</b> Cheyenne
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Timothy A. Cazier	<b>INSP. DATE:</b> July 6, 2017	<b>INSP. TIME:</b> 12:30
<b>OPERATOR:</b> Cheyenne County	<b>OPERATOR REPRESENTATIVE:</b> Jim Brown	<b>TYPE OF OPERATION:</b> 110c - Construction Limited Impact	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$0.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> July 20, 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>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>NA</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</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>NA</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	(ST) STIPULATIONS----- <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 Operator (Cheyenne County) was represented by Jim Brown. The Klement Pit is accessed from Cheyenne Co Rd 53 and is located approximately 2.5 miles north of US 40 (near the town of Arapahoe). This is a 110c sand and gravel mine. It was not operating at the time of the inspection.

Availability of Records: Annual fees are paid through January 2017. The previous inspection was on August 8, 2012. The approved post-mine land use is rangeland. There are no open infractions.

Backfilling and Grading: Mr. Brown pointed out they have backfilled the north end of the pit (see **Photo 1**) and are mining south. Sufficient backfill material appeared to be available (see **Photo 2**).

Complete Inspection: The entire permit area was inspected. The southwest boundary marker could not be located during the inspection. Mr. Brown sent a photo to the Division of the missing post having been replaced (see **Photo 3**), as well as having the northwest boundary marker replaced with a more substantive T-post the day following the inspection.

Excess Spoil and Dev. Waste: Mr. Brown stated topsoil is not distinct from overburden. The stripped overburden was stockpiled on the west side of the excavation.

Financial Warranty: Not applicable as this is a county operated pit.

Fish and Wildlife: No impacts were observed.

Hydrologic Balance: A small amount of water was observed in the pit floor and was believed to be stormwater from recent rainfall.

Gen. Compliance with Mine Plan: The operation appeared to be in compliance with the approved mine plan. Google Earth was used to measure the disturbed area, which was estimated to be approximately 6.6 acres based on April 23, 2016 satellite image. High walls were estimated to vary between 15 and 20 feet in high and appeared stable (see **Photo 4**).

Off-site Damage: The operation appeared to be confined to the permit boundary.

Roads: Haul and access roads did not appear to be a source of sediment that could be tracked to a paved road.

Reclamation Success: The north end highwalls are 3H:1V or flatter and are being vegetated with volunteer species. According to Mr. Brown, the County has not seeded this area.

Revegetation: No noxious weeds were observed.

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

Signs and Markers: The permit sign was posted, but had the wrong permit number. Mr. Brown sent a photo of

the corrected sign to the Division on July 10, 2017 (see **Photo 5**). The missing SW boundary marker was cited as a problem, but corrected prior to completing this report.

Permit Stipulations: There are no permit stipulations.

Storm Water MGT Plan: No oil or fuel spills observed. Stormwater drains to the pit and infiltrates.

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

## **PHOTOGRAPHS**



Photo 1. Backfilled north end of pit (looking South).



**PHOTOGRAPHS (cont.)**



Photo 2. Available backfill material (south end, looking NNW).



Photo 3. Replaced missing SW corner post (submitted by Permittee, looking north).

**PHOTOGRAPHS (cont.)**



Photo 4. High walls appeared stable (looking NNE).



Photo 5. Corrected permit sign (submitted by Permittee).

**Inspection Contact Address**

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Cheyenne County  
51 South 1st  
Cheyenne Wells, CO 80810

CC: DRMS file