




**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> Climax Mine	<b>MINE/PROSPECTING ID#:</b> M-1977-493	<b>MINERAL:</b> Molybdenum	<b>COUNTY:</b> Summit
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Jared L. Ebert	<b>INSP. DATE:</b> May 9, 2018	<b>INSP. TIME:</b> 10:00
<b>OPERATOR:</b> Climax Molybdenum Company	<b>OPERATOR REPRESENTATIVE:</b> James Haag and Diana Kelts	<b>TYPE OF OPERATION:</b> 112d-3 - Designated Mining Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$78,246,088.00	
<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> May 23, 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>N</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>N</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>N</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</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**

This was a monitoring inspection of the Climax Mine, DRMS Permit No. M-1977-493, operated by Climax Molybdenum Company (Climax). I, Jared Ebert with the Colorado Division of Reclamation, Mining and Safety (Division) conducted the inspection. Mr. James Haag and Diana Kelts with Climax accompanied me during the inspection. The weather was partly cloudy and warm.

### **Hydrologic Balance:**

The West Interceptor ditch/pipe was observed. According to Mr. Haag, Climax intends to replace sections of the West Interceptor pipe this year. The West Interceptor consists of an open ditch in places and underground piping. Snow was observed in sections of the open ditch but overall the ditch sections appeared functional. A pipeline was installed for a large portion of the interceptor and surface water flows into the pipe in fairly closely spaced drainage grates. Climax clears snow from the grates to allow surface water to flow into them.

Portions of the East Interceptor/Clinton Canal was observed. The drainage downstream from the Drop Tower #15 of the Tailings Delivery Line (TDL), was inaccessible due to snow conditions. The sections of the drainage observed were clear and functional. Water was flowing through the drainage.

The Chalk Mountain Interceptor was observed. This channel appears to have been recently cleaned out in places. The channel was flowing with water and appeared functional.

### **Gen. Compliance With Mine Plan:**

The Tailings Delivery Line was observed and no problems were noted.

### **Processing Waste:**

The face of Tailings Dams 1, 2, 3 and the Robinson Dam were covered with snow but overall appeared stable.

Climax was actively preparing 5 Dam for spigot tailings deposition. Equipment was observed grading the top bench of the dam and clearing snow and ice. Climax was discharging tailings at the Clinton Cut-Out. The beach width appeared greater than 1,000 feet.

## PHOTOGRAPHS



Figure 1. From the West side of 3 Dam looking southeast.



Figure 2. West Interceptor channel.





Figure 3. From the west side of 5 Dam looking southeast.



Figure 4. Face of 5 Dam





**Figure 5. East Interceptor**



**Figure 6. East Interceptor**



**Figure 7. Chalk Mountain Interceptor.**

**Inspection Contact Address**

Climax Molybdenum Company  
Attn: Ray Lazuk  
Highway 91, Fremont Pass  
Climax, CO 80429

Enclosure: None

EC: Eric Scott, DRMS [eric.scott@state.co.us](mailto:eric.scott@state.co.us)