




**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> Henderson Mine	<b>MINE/PROSPECTING ID#:</b> M-1977-342	<b>MINERAL:</b> Molybdenum	<b>COUNTY:</b> Clear Creek, Grand
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> March 20, 2024	<b>INSP. TIME:</b> 09:00
<b>OPERATOR:</b> Climax Molybdenum Company	<b>OPERATOR REPRESENTATIVE:</b> Shelby Epperson	<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> \$170,904,202.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Brock Bowles Amber Gibson Joel Renfro	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> April 2, 2024	

**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>N</u>
(HB) HYDROLOGIC BALANCE----- <u>N</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>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>N</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>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 by Brock Bowles, Amber Gibson and Joel Renfro of the Division of Reclamation, Mining and Safety (Division). Shelby Epperson of Climax Molybdenum- Henderson Operations (Henderson) was present for the inspection. The Henderson Mill is located 15 miles south of Parshall in Grand County. This site is a 112d-3 Designated Mining Operation (DMO) permitted for 11,877.5 acres. At the time of the inspection, it was cool and clear. Photos 1-8 taken during the inspection are included with this report.

The current Environmental Protection Plan (EPP) for the Mine and Mill was approved by the Division under technical revision no. 34 (TR34) The purpose of the inspection was to inspect the designated chemical storage facilities listed in Section 7.2.2 of the approved EPP. Mill EPFs 2.1-2.10 were inspected at this time. Mill EPFs 2.11-2.13 are included in Section 7.2.2 of the EPP to be used as part of the proposed updates to the water treatment at the facility. However, these updates have not yet been constructed, thus the Mill EPFs 2.11-2.13 have not yet implemented at the site.

### The following facilities were inspected-

**Mill EPF 2.1** - Sodium Hydroxide Storage- Two 12,300 gallon tanks are located in the Nokes building on the north side of the mill building (photo 1). They are located in a containment area which appeared to be free of obstructions.

**Mill EPF 2.2** - Hydrochloric Acid Storage- Two 50,000-gallon HCL tanks are located outside the mill building on the north side (photo 2). The Operator stated that the north tank is not presently being used, and that the south tank is only at about 40% capacity. The tanks are sectioned off from the rest of the area by a perimeter fence.

**Mill EPF 2.3a** - Frother Chemical Storage (Dowfroth 250-C) – No Dowfroth was being stored at the time of the inspection.

**Mill EPF 2.3b** - Depressant Chemical Storage (Orform D8 Depressant)- The Orform D8 Depressant is currently stored in 275-gallon totes in the Mill building with a maximum storage capacity of 5,400 gallons. 14- 275-gallon totes were currently being stored on the main floor of the mill building for a total of 3,850 gallons (photo 3). In the Division's March 14, 2023 inspection, the Division noted that the Operator was in the process of relocating the Orform D8 Depressant from tote to tank storage and that the empty tank was observed during the inspection. During the March 20, 2024 inspection, the Division inquired if this was still the plan, to which the Operator stated that to their knowledge this is no longer the case. The Division reminds the Operator that if the Orform D8 Depressant is changed to tank storage, the Operator will be required to update the EPP to accurately describe its storage.

**Mill EPF 2.4** - Pine Oil Storage- The 16,121-gallon tank is located in a separate tank room on the north side of the mill building. The tank appeared in good condition and the secondary containment area was clear of obstructions.

**Mill EPF 2.5** - Collector Oil Storage (vapor oil and diesel #2)- The collector oil and diesel tanks are each in a 32,000-gallon tank in a separate tank room on the north side of the mill building. Both tanks appeared to be in

good condition and the secondary containment was clear of obstructions.

**Mill EPF 2.6** - Syntex Storage- The 33,000-gallon storage tank is located approximately in the center of the mill building. The tank appears to be in good condition and no leaks or spills were noted.

**Mill EPF 2.7** - Sodium Lauryl Sulfate Storage- 79- 220 lbs. storage containers were onsite for a total quantity of 17,380 lbs. (photo 4). The maximum approved quantity is 26,400 lbs. The storage location was clean, and no spills were noted.

**Mill EPF 2.8** - Tergitol NP-9/9N9 Surfactant Storage- The main 9,400-gallon, double walled storage tank is located in the mill building on the ground floor (photo 5). A second 500-gallon plastic storage tank is located on the upper floor, east side (photo 6). Both tanks were in operating condition and no leaks were noted.

**Mill EPF 2.9** - Quicklime Storage- This area was not inspected because lime was being delivered and offloaded from a truck (photo 7).

**Mill EPF 2.10** - Nokes Storage- The 21,800-gallon storage tank is in the main mill building on the north side, ground level (photo 8). No spills were noted in the storage location.

This concludes the Division's Inspection Report. Photographs taken during the inspection are attached. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 720-774-0040, or by email at [brock.bowles@state.co.us](mailto:brock.bowles@state.co.us).

**PHOTOGRAPHS**



Photo 1 – Sodium Hydroxide storage in the Nokes building.



Photo 2 – HCL storage tanks. The left tank (north) is not being utilized





Photo 3 – 275-gallon totes of Orfom D8 Depressant



Photo 4 – 64 of the 79 Sodium Lauryl Sulfate containers.





Photo 5 – Main Tergitol NP-9/N9N storage tank.



Photo 6 – 500-gallon head tank-Tergitol NP-9/N9N.



Photo 7 – Quicklime delivery truck.





Photo 8 – Nokes storage tank.

**Inspection Contact Address**

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