

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:	MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Henderson Mine	M-1977-342	Molybdenum	Clear Creek, Grand
INSPECTION TYPE:	WEATHER:	INSP. DATE:	INSP. TIME:
Aerial Inspection	Clear	September 11, 2024	09:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERAT	FION:
Climax Molybdenum Company	N/A	112d-3 - Designated	Mining Operation
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program	None	\$143,264,468.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA	None	None	
INSPECTOR(S):	INSPECTOR'S SIGNATURE:	SIGNATURE DAT	Е:
Amber M. Gibson		October 4, 2024	
Brock Bowles	Antor Hilson		

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>N</u>	(BG) BACKFILL & GRADING <u>N</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>Y</u>	(SF) PROCESSING FACILITIES Y	(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>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 was an aerial photograph inspection of the Henderson Mine by Amber Gibson with the Colorado Division of Reclamation, Mining and Safety (Division/DRMS) based on aerial photographs taken by Brock Bowles (also with DRMS) on September 11, 2024. The Operator did not accompany the Division on this aerial inspection. The site is a 112d-3 molybdenum mine with a mine site located approximately 9 miles west-northwest of Empire, CO and a mill site located approximately 7.2 miles northwest of Colorado State Highway 9, along Ute Pass Road. The purpose of the aerial inspection program is to provide the Division a broad perspective that cannot be obtained from the ground, to document changes in areas of the mine over time, and to identify areas of focus for future on-the-ground monitoring inspections.

This inspection included the following facilities and areas:

- Henderson Mine
- URAD Water Treatment Plant
- Henderson Mill

Both the mine and the mill appear to be in compliance with the approved mining plans. No unidentified disturbance areas, or offsite disturbance was observed. Some deep erosion gullies can be seen on the northern toe of the slope at 3-Dam. The Operator is aware of this erosion and has plans to repair it. No other cause for concern was identified from the aerial photographs.

A few aerial pictures are described and included within this report. Also, enclosed for reference, are mining plan maps from Amendment no. 8 (AM8) and a map from Technical Revision no. 36 (TR36).

This concludes the Division's Inspection Report. If you need additional information or have any questions, please email me at amber.gibson@state.co.us or call at **720-836-0967**.

Inspection Contact Address

Miguel Hamarat Climax Molybdenum Company P.O. Box 68 Empire, CO 80438

- Enclosures: Mining Plan Map for the Mine/Mine Surface Facilities and URAD treatment area Exhibit C Mining Plan Map for the Tailings Impoundment at the mill Exhibit C.A to AM-08 Mining Plan Map of the Tailings Impoundment and the Mill facilities Exhibit C.B to AM-08 Mining Plan Map of the portal and transfer station area Exhibit C.C to AM-08 Well location map submitted with TR36 for the tailings facility at the Mill Figure 1
- EC: Jared Ebert, DRMS Nikie Gagnon, DRMS Joel Renfro, DRMS

PHOTOGRAPHS



Photo 1: Looking southwest at the surface facilities at the mine.



Photo 2: Looking at the eastern side of the surface facilities at the mine.



Photo 3: Looking south at the URAD water treatment facility ponds.



Photo 4: Looking northeast at the Lower URAD reservoir at the base of the URAD water treatment area.



Photo 5: Looking northwest at the Tailings Impoundment at the Mill. The red arrow points to 3-Dam and the yellow arrow points to 1-Dam.



Photo 6: Looking west across the northern border of the deposition cells in the Tailings Impoundment. Circled are test plot areas where the Operator is testing revegetation methods for future use in reclamation efforts on the Tailings Impoundment.



Photo 7: Looking west at the northern portion of the Tailings Pond.



Photo 8: Looking west across the Tailings Impoundment. The area circled in red shows some recent tailings deposition on the Tailings Impoundment.



Photo 9: Looking southwest at the seepage collection trenches along the toe of the slope behind 1-Dam.



Photo 10: Looking northwest at the southern portion of the seepage collection canals on 1-Dam and the 1-Dam abutment area.



Photo 11: Looking west at the north side of 3-Dam. The arrows indicate the seepage collection trenches. Some erosion gullies are present along the north toe of the slope on the backside of 3-Dam.



Photo 12: Looking west at an overview of 3-Dam and the start of the east branch of Ute Creek leading from 3-Dam (red arrow).



Photo 13: Looking northwest at the East Branch of Ute Creek and the Mill facilities.



Photo 14: Looking at the tailings deposition within the East Branch of Ute Creek and the northwest side of the Mill facilities.



Photo 15: Looking at the north side of the East Branch Reservoir.



Photo 16: Looking at the south side of the East Branch Reservoir.



Photo 17: Looking southwest at the transfer station for the conveyor system (red circle). Looking southeast at the portal (yellow circle).



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<i>M</i> /	P FEATURES			🗖 Clima	x Molybdenum
PROPOSED ADDIT	IONAL AFFECTED LAND BOUNDARY				cMoRan Company
		REVISION	DATE		NOPERATIONS
	OUNDARY	Updated Affected Land Boundary	12/10/2015		County Road
STREAM / DITCH		Updated Affected Land Boundary	08/07/2017		olorado 80438
		Updated Affected Land Boundary characteristics	01/15/2019		
PROPERTY BOUN	DARY	Updated 'Map Features' and feature characteristics	03/19/2019	l Exh	ibit C
LAKE / POND		· · · · · · · · · · · · · · · · · · ·			nd Mining Plan ected Lands
BUILDING				,	
				DESIGNED BY:	SCALE: 1:24,000
		Aquionix A	W. 56th Ave., Unit E vada, CO 80002 303-289-7520 ww.aquionix.com	DRAWN BY: MT/KV (Aquionix)	COORD. SYSTEM: WGS_1984_
				DATE DRAWN: 8/7/17	Web_Mercator_Auxiliary_Sphere







REVISION	DATE	AUTHOR	HENDERSON 1746 Cou	Molybdenum MoRan Company OPERATIONS unty Road orado 80438		
			HENDERSON MILL Exhibit C.B to AM-08 Pre-Mining and Mining Plan Map of Affected Lands			
Aquioni	X Arva 30	Yest 65th Avenue Unit E da, CO 80002 3-289-7520 aquionix.com	DESIGNED BY: DRAWN BY: MT(Aquionix) DATE DRAWN: 2/27/2023	SCALE:1 inch = 658 feet COORDINATE SYSTEM: NAD_1983 _UTM_Zone_13N		







REVISION	DATE	AUTHOR	Climax Molybdenum A Freeport-McMoRan Company HENDERSON OPERATIONS 1746 County Road Empire, Colorado 80438		
			HENDERSON MILL Exhibit C.C Pre-Mining and Mining Plan Map of Affected Lands		
Aquioni	X Arva 30	/est 65th Avenue Unit E da, CO 80002 3-289-7520 aquionix.com	DESIGNED BY: DRAWN BY: MT(Aquionix) DATE DRAWN: 3/6/2023	SCALE:1 inch = 650 feet COORDINATE SYSTEM: NAD_1983 _UTM_Zone_13N	



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Legend

- **POC Monitor Well**
- **Extraction Well**
- Surface Water Monitoring Loc.
- **Ultimate Canal**
- Canal
- Dike
- Ditch
- Intermittent Surface Water
- Perennial Surface Water
- Pipeline
- - Road dashed where unimproved
- **Property Boundary**
- Affected Lands (2010)
- **County Line**





<u>SCALE:</u> 1 inch = 2,500 feet

AJAX



5,000 Feet



