

COLORADO OPERATIONS

Henderson Mine and Mill P.O. Box 68 Empire, CO 80438 Phone (303) 569-3221 Fax (303) 569-2830

November 11, 2020

Sent Via Email and UPS#: 1Z804641NT98366007

Mr. Peter Hays Division of Reclamation Mining and Safety 1313 Sherman St., Rm. 215 Denver, CO 80203

RE: Climax Molybdenum Company, Henderson Mine, Permit No. M-1977-342 Technical Revision No. 31, Additional 3 Dam Seepwater Return Line Cleanout Ports – Adequacy Review Response

Dear Mr. Hays:

In your adequacy review received on March 27, you requested we supply additional documentation in the form of As-Built Drawings and Engineering Certification stamped, signed, and dated by a Professional Engineer.

Please find attached the requested As-Built Drawings and Engineering Certification stamped, signed, and dated by Dillon Benbow, Henderson Mill's Chief Engineer and PE.

If you have have further questions please reach out to Miguel Hamarat at <u>mhamarat@fmi.com</u> or 720-942-3255.

Regards,

Aaron Hilshorst Manager, Land & Water Resources Colorado Climax Molybdenum Company

Attachments:

- 3 Dam Seepwater Return Line Cleanout As-Builts
- 3 Dam Seepwater Return Line Cleanout Certification Statement

cc: M. Hamarat, Climax



DWG. #	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	ΒY	APPR	DEPARTMENT APPROVALS		ENGR:	RH 01/28/2019	HENDERSON OPERATIONS	TAILINGS AND WATER
020577	AS-BUILT OF: MILL WATER RETURN LINE							DRAWN BY:	RH 01/20/2019		
1333.1B-1	No. 3 Dam Seepwaer Pipeline	AS BUILTS	6/02/2020	RH	DB			CHECKED BY:	EN 05/01/2019	🤁 Climax Molybdenum	3 DAM SEEPWATER
5-6-9030	3 DAM SEEPWATER CLEAN-OUT ADDITIONS	IFC	9/03/2019	RH	DB			APPROVED BY:	DB 05/01/2019	A Freeport-McMoRan Company	CLEAN-OUT ADDITIONS
								APPROVED BY:		EMPIRE / PARSHALL, COLORADO	COVER SHEET
						SCALE: AS	SHOWN	SAFETY APP BY:		303-569-3221	5-6-9030 SHT 1 OF 5 REV. 🛕

DRAWING LIST					
SHEET NUMBER	DRAWING TITLE				
01	COVER SHEET				
02	SECTION 1: STA 0+00 - 20+00				
03	SECTION 2: STA 20+00 - 40+00				
04	SECTION 3: STA 40+00 - 57+80				
05	DETAILS				









Janos

OF RUST-OLEUM 7400 YELLOW METAL

PRIMER, EXCEPT AREAS TO BE FIELD WELDED

DWG. #	REFERENCE DRAWINGS	DESCRIPTION OF REVISION	DATE	BY	APPR	DEPART	MENT APPROVALS		ENGR: RH	01/28/2019	HENDERSON OPERATIONS	TAILINGS AND WATER
020577	AS-BUILT OF: MILL WATER RETURN LINE	\wedge							DRAWN BY: RH	01/28/2019	HENDERSON OF ERATIONS	
1333.1B-1	No. 3 Dam Seepwaer Pipeline	AS BUILTS	6/02/2020	RH	DB				CHECKED BY: EN	05/01/2019	Climax Molybdenum	3 DAM SEEPWATER
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		\wedge							APPROVED BY:		EMPIRE / PARSHALL, COLORADO	DETAILS
		\wedge				SCALE:	AS SH	HOWN	SAFETY APP BY:		303-569-3221	5-6-9030 SHT 5 OF 5 REV. 🛕

(8)

MATERIALS						
ITEM	PART #	QUANTITY				
" ELECTRO FUSION COUPLINGS – NO STOP (FIELD REMOVE)	10EFCPL	18				
10" IPS MOLDED TEES - DR17	10HDPE17TM	6				
"X APPROXIMATELY 20 FT HDPE E SPOOLS WITH 10" DR 17 FLANGE DPT AND 10" DI BACK UP RING ON ONE END – DR 17	10X240HDPEDR17FLGXPESPOOL	6				
10" 150# Blind Flange	10WFLG150RFBLNDI	6				
NO 8 COARSE AGGREGATE	TONN	36				
6" x 8' OAL BOLLARDS	6X960BOL	6				
JST-OLEUM 7400 YELLOW METAL PRIMER		1				
50 LB BAG QUICKRETE MIX		24				



COLORADO OPERATIONS Henderson Mine & Mill P.O. Box 68 Empire, CO 80438 Phone (303) 569-3221 Fax (303) 569-2830

June 2, 2020

Mr. Peter Hays Environmental Protection Specialist 1313 Sherman Street, Room 215 Denver, CO 80203

Re: Climax Molybdenum Company, Henderson Mill, Permit No. M-1977-342 Proposed Technical Revision No. 31, Additional 3 Dam Seepwater Return Line Clean-out Ports

Dear Mr. Hays,

The 3-Dam Seepwater Return Pipelines, which consist of two 10-inch HDPE lines routing seep water from the toe of 3-Dam to the main seep water collection system at the toe of 1-Dam and Ute Park Pump station, were installed in 2000 and included a total of ten installed cleanout access locations, five on each pipe. It was determined that six additional cleanout access locations, three per pipe, were required to allow for greater access of future cleaning and maintenance. In September of 2019 the Henderson Mill successfully installed the additional cleanout access locations.

The purpose of this letter is to state that the new cleanout access locations were constructed in conformance with the design plans and specifications. Each new HDPE cleanout was installed with a molded tee with a riser pipe to the surface and all joints connected with HDPE electrofusion couplings. Once all cleanouts were installed, a 24-hour pressure test was conducted along with visual inspections of each new joint. The pressure test was finished on September 19, 2019. Before acceptance of the test, each new fused joint was visually inspected for leaks with no leaks being found in any of the new joints. The pressure gauge at the discharge of each pipeline was verified to continually hold pressure throughout the 24-hour test. After the inspection and pressure test, the pipelines were deemed acceptable for continued use, and put back into service.

Sincerely,

HAL BA

Dillon Benbow, P.E. Chief Mill Engineer Climax Molybdenum Company Henderson Operations

