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OFFICE OF THE MINING ENGINEER

304 FEDERAL BUILDING  
325 GRANVILLE STREET  
VANCOUVER

Mr. Freeland

Copy for your information  
H.S.

June 4, 1948.

~~CONFIDENTIAL~~

REGISTER  
VIA AIRMAIL

George Bateman, Esq.,  
Metals Controller,  
Department of Munitions and Supply,  
Room 221, No. 3 Bldg.,  
OTTAWA, Ont.

Dear Sir:

Herewith is a report dealing with the possibility of recovering additional zinc by treating some 4000 tons of rather oxidized sulphide tailings, previously cyanided at the Ymir Yankee Girl mill. The company does not propose to treat this material because it would be necessary to install a small amount of equipment, and according to report, attempts to secure the equipment met discouraging results. If use of the equipment could be obtained for the short period, the present campaign at the mill could be extended for a month or so, and would probably make an additional 300,000 pounds of zinc as well as some lead and cadmium available. It would probably require remission of the United States duty on the zinc.

Also enclosed herewith is a report regarding Base Metals Mining Corporation's operation at Field, outlining a proposal to bonus production of sub-marginal ore principally from floors and roofs of stopes in the Monarch and Kicking Horse Mines. This proposal calls for no new equipment, except possibly rock drills to replace some nearly worn out. It would probably make an additional 3,500,000 pounds of zinc and some lead available, and might contribute toward considerably greater additional production. It would definitely require a bonus in addition to remission of United States duty.

Reserves of profitable ore at the company's mines were some 26,000 tons on April 19th, and profitable ore may therefore be exhausted by fall. Submarginal material available April 19th was estimated at probably 43,000 tons, averaging 5% combined lead and zinc or better. This quantity would probably yield 3,500,000 pounds of zinc in zinc concentrates as well as a considerable quantity of lead in lead concentrates.

The report shows probable cost of lead or zinc as about 2.2¢ per pound more than present net return. This would require a bonus of say  $\frac{1}{2}$ ¢ per pound, in addition to remission of the United States duty. The matter is complicated by the fact that the submarginal material should be handled along with profitable ore, and that to secure maximum rate of production, it is desirable to leave every incentive to produce profitable ore which yields more metal per ton.

If bonusing is considered warranted, it might be that payment could be made on monthly declaration of average grade and tonnage of sub-marginal ore milled and of grade and tonnage of profitable ore milled, mine books and works being at all times open for inspection.

Yours very truly,

H. Sargent,  
Mining Engineer.

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