

ALL OFFICIAL CORRESPONDENCE  
SHOULD BE ADDRESSED TO THE DIRECTOR.  
DIVISION OF ORE DRESSING AND  
METALLURGY

G. C. MACKENZIE, B.SC., CHIEF OF DIVISION  
W. B. TIMM, B.SC., 1ST ENGINEER  
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H. C. MABEE, B.SC., CHEMIST  
R. J. TRAILL, ASST. CHEMIST  
B. M. DERRY, MILLMAN



MINES BRANCH

EUGENE HAANEL, PH. D.  
Director.

OTTAWA, Ont., July 18th, 1918.

Report of the Ore Dressing & Metallurgical Laboratories.

Test No. 93

A shipment of 9 bags of Molybdenite Ore was received on June 30th, 1918, from H. Leger, Esq., Cambell's Bay, Que.

Gross Weight Received-----768 pounds.

Net Weight Received-----759 pounds.

Analysis-----MoS<sub>2</sub>-----1.025 pounds.

Content-----MoS<sub>2</sub>-----7.78 ponds.

The molybdenite was of the flake variety in a pyroxinite gangue. Very little iron pyrites was present.

A test was made on the Laboratory Callow Flotation Machine to determine its adaptability to concentration by Oil Flotation.

1000 grams of the ore was used, crushed to pass 48 mesh, .0116" aperature.

The oil mixture was  $\frac{1}{2}$  pound of #5 Pine Oil and 1 pound Coal Oil per ton of Ore.

The results of the test follows:-

Product	Weight Grams	Analysis % MoS <sub>2</sub>	Content Gram MoS <sub>2</sub>	%age of MoS <sub>2</sub> Values.
Concentrates	7	88.02	6.1614	70.4
Middlings	379	0.41	1.5539	17.8
Tailings	614	0.17	1.0438	11.8



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Conclusion:—

It was found that the ore was an ideal one for concentration by this method. Containing very little iron pyrites, a high grade concentrate is easily made. A concentrate of grade 88.02% MoS<sub>2</sub> was made on the testing machine and a better grade should be made in practice. The above test show that a good recovery can be obtained. Figuring on a recovery of 70% of the Values in the middlings, the total Recovery would be 82.9% of the MoS<sub>2</sub> Values in the crude ore.