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ALL OFFICIAL CORRESPONDENCE
SHOULD BE ADDRESSED TO THE DIRECTOR.

DIVISION OF ORE DRESSING AND
METALLURGY

G. C. MACKENZIE, B.SC., CHIEF OF DIVISION
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MINES BRANCH

EUGENE HAANEL, Ph. D.
Director.

OTTAWA, Ont., July 20th, 1918.

Report of the Ore Dressing and Metallurgical Laboratories.

Test No. 96

Two Samples of Manganese Ore was received on June 14th, 1918, from Dr. Hayes of the Geological Survey. These samples were obtained from the farm of Mrs. Geo. Harrington, Gowland Mountain, N.B.

Sample marked "A" was high grade and gave the following analysis:-

Mn.-50.62%; Fe.- 0.30%; SiO₂--15.00%

Sample marked "B" was low grade and gave the following analysis:-

Mn--24.69% ; Fe.-- 3.00% ;

The Manganese was in the form of Pyrolusite, finely crystalline in a reddish slate gangue.

A test was made on 2000 grams of B sample, crushed to 50 mesh, on the laboratory Wilfley table to determine its adaptability to concentration. The Results follow;-

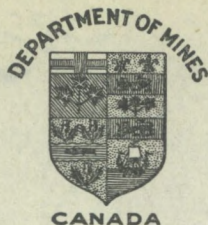
Product	Weight grams	Analysis			Content Grams Mn.	%age of Mo. Values
		% Mn.	% Fe.	% S.		
Concentrates	433	52.29	3.50	9.85	226.416	45.85
Middlings	101	32.50	3.45		32.825	6.65
Tailings	890	9.85			87.665	17.75
Slime Loss	576	25.50			146.894	29.75
Totals and Averages	2000	24.69			493.800	100.00

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Conclusions:-

In practice on an ore of this class to obtain a concentrate of grade 50% Manganese, a recovery of 50% of the Mn. Values could be expected. To obtain a concentrate of grade 40% Mn. a recovery of 60% could be expected.