

OTTAWA
31st. December 1919

REPORT OF ORE DRESSING AND METALLURGICAL LABORATORIES

Test No. 123

Two samples of euxenite ore, weighing respectively 22 and 74 pounds, were received at the Ore Dressing and Metallurgical Laboratories on June 19th. 1919. These samples were sent in by the Geological Survey, and had come from Maberley, Sherbrooke Township, Ontario.

The samples consisted of fairly large prystaline pieces of euxenite in a gangue of very good orthoclase feldspar.

It was desired to conduct tests to see if it would be possible to recover the euxenite in a high grade concentrate, and at the same time, produce a clean, marketable feldspar.

Each sample was crushed separately to pass 4 mesh, and then screened on 6, 8, 10, 14 and 20. The sizes coarser than 20 were treated separately on a small Richards Jig, making a concentrate and tailing out of each size. The concentrates were combined and the tailings were combined, dried, and put with the -20 mesh material. This mixture was then crushed to pass 30 mesh and screened on 80. The two sizes -30 +80 and -80 were then tabled separately on a small Wilfley table. The concentrates from the table were put with the jig concentrates, and the table tailings were combined. This gave one concentrate and one tailing for each lot, and these were dried and weighed.

LOT #1 (High Grade)

Heads used in test	20 lbs	5 ozs
Concentrates	10 lbs	11 ozs
Tailings	8 lbs	8 ozs

LOT #2 (Low Grade)

Heads used in test	68 lbs	9 ozs
Concentrates	5 lbs	8 ozs
Tailings	53 lbs	14 ozs

The concentrate produced from each sample was fairly

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high grade and the tailing was very clean in each case.

These products were sent to the Geological Survey.
