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

200

G. C. MACKENZIE, B.SC., CHIEF OF DIVISION W. B. TIMM, B.SC., 1ST ENGINEER C. S. PARSONS, B.SC., 2ND ENGINEER H. C. MABEE, B.SC., CHEMIST R. J. TRAILL, ASST. CHEMIST B. M. DERRY, MILLMAN



101

MINES BRANCH EUGENE HAANEL, PH. D. Director.

OTTAWA. Ont., Pept. 30th, 191 8.

Report of Gre Dressing and Metallurgical Laboratories.

Test No. ----

A.3.4

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A shipment of Scheelite Gre was received on August 28th from Geo.A. Cameron, Eureka, N.S.

Contentessesses 3 grandes.

As 33.5278 pounds.

The scheelite occurs in a quartz gangue, associated with it is a small amount of pyrite and arsenopyrite.

Tests were conducted on this ore to obtain a commercial product, suitable for reduction to ferro-tungsten in an electric furnace.

The ore was crushed to pass 30 mesh and sampled. It was then run over a concentrating table, the middlings from the table being reground to 50 mesh and run over the table. The results of this concentration was as follows:-

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EUGENE HAANEL, PH. D. Director.

.191 8. OTTAWA. Ont., Sept. 30th

Analysiseneenee We amone 64.73% Asaaaaa 4.18% Contentessan Wegenessa17.1848 pounds. As===== 36.94 pounds. Mage of We Values---- 96.98% Tailings on wow Weightannon and so pounds. Analysisaaaaa We gaaaaaaa 1.10% Contenterrerow Wegenerer 2.849 pounds. Sage of Weg Values 0.66% Contentanname Weganana 10.1683 pounds. Mage of W03 Values 2.36%

Conclusions. . From the above ore, a concentrate of grade 66.73% Wes obtained with a recovery of practically 97% of the Weg Values. 3% of the Weg Values was lost in Slime and in the Tailings.

The concentrate obtained carries 4.18% As. in the form of Arsenopyrite. This will necessitate Roasting of the Concentrate to eliminate the Arsenic in order to obtain a first class product.

(Sed.). M.B. Jimm