

Ont., June 7th, 8,

Report of Ore Dressing and Metallurgical Laboratories.

Test No. 90

Scheelite Concentrates from Yukon.

A shipment of 3 bags of Scheelite Concentrates was received Feb. 16th, 1919, from Frank W. Canton, Esq. This shipment was made through G.D. Mackenzie, Gold Commissioner for the Yukon.

Gross weight of Concentrates Received----354 pounds.  
 Net weight of Concentrates Received-----350 pounds.  
 Analysis-----WO<sub>3</sub>-----62.50%  
 Au.-----3.98 ozs.  
 Content-----WO<sub>3</sub>-----843.85 lbs.  
 Au.-----0.6965 ozs.

This concentrate was Amalgamated to extract the free gold. It was found that part of the gold was free and part still adhering to the quartz grains in the scheelite.

Weight after amalgamation-----343.5 pounds  
 Analysis-----WO<sub>3</sub>-----70.88%  
 Au.-----1.91 ozs.  
 Content-----WO<sub>3</sub>-----843.47 lbs.  
 Au.-----0.338 ozs.  
 Bullion Received-----0.237 ozs.

In order to make a further recovery of the gold values it would be necessary to grind the concentrates to free the gold from the quartz. The loss in the scheelite would be greater than the recovery made on the gold so this was not resorted to. It would not be possible to make a separation by

90

"g" continued.

water concentration as the gold with adhering quartz particle has the same gravity as the scheelite.