## RRPORT( <br> of the

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Investigation NO. 876.

Infrasizing Test on a Sample of Cyanide Tailings from the Francoeur Gold Mines, Limited, Arntfield, Quebec.

CANADA

Bureau of Mines
tvision of Metallic Minerals

DEPARTMENT
OF
MINES AND RESOURCES Mines and Geology Branch

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Shipment:
A sample of cyanide tailings, gross weight
8.0 pounds, was received on July i6th, 1940, from R. H. Farmer, Mill Superintendent, Francoeur Gold finess Limited, Arntfield, Quebec.

## Purpose of the Investigation:

The sample of mill tailing was submitted for the purpose of making an infrasizer separation and assaying the fractions for gold.

## Sampling and Analysis:

A representative portion was cut out of the shipment and was found to contain:

$$
\text { Gold }-0.1325 \mathrm{ozo} / \text { ton. }
$$

Haultain Infrasizer Test:
A 400-gram sample of the tailing was cut out for the infrasizer test and screened on a $200-m e s h$ screen. The minus 200 mesh material was used as the infrasizer feed. Each fraction was assayed for gold.


- Feed assay calculated from the products.


## Infrasizer Data:

```
Length of test: }8\mathrm{ hours.
Drops per minute: 63.
Jefight of drop: 5/16th inch.
Differential pressure: 29 inches of water.
Standard golf balls usod in cups.
Humidity: 76 per cent.
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