

## DEPARTMENT OF MINES LABORATORY

C O P Y

LAUNCESTON, ..... 17th March, 1938.

ORE DRESSING INVESTIGATIONNo. R14

352-353/38

F.I. Grey, Esq.,  
Beaconsfield.

Dear Sir,

Renison Bell.

Enclosed herewith assay certificate of the two samples from Renison Bell and two flotation products marked flotation concentrate and silicious residue plus 150 mesh.

I have made a short examination of the products and remarks herewith concerning same.

1. Sulphide Concentrate. This was acid cleaned to remove sulphides and panned and examined under microscope. The largest particles of cassiterite observed were (in microns) 96 x 64 and 64 x 64. The predominant size was 16 to 25 microns. In these examinations finer tin would be lost by panning, and if finer examination is aimed at it means removing gangue with hydrofluoric acid.

2. Tailings. A small quantity was panned several times to obtain free tin. Apparently some -150 mesh product remained on screen as a good proportion of the concentrate was -150 mesh.

Total weight of concentrate	0.146 gm.
" " " +150 mesh	0.055 gm.

Largest particles observed in +150 portion were 320 x 320 and 256 x 128. The major portion was from 120 to 250 microns.

In the -150 portion, largest particles 98 x 64 and a fair proportion of 30 to 60 microns. Smallest particles observed 20 to 30 microns.

Tailings after removal of free tin were re-ground and concentrated. For rough comparative purposes the concentrate was weighed. Weight 0.038 gm. (free 0.146).

After re-grinding the particle size would be of little interest to you, but an examination was made, and particles of tin 222 x 96, 128 x 64 and 64 x 48 were observed.

The various concentrates are enclosed herewith.

Yours faithfully,

*W.S. Pearson*  
GOVERNMENT CHEMIST & ASSAYER.

C O P Y



LABORATORY,  
LAUNGESTON,

17th March, 1938

## CERTIFICATE OF ANALYSIS

To F.I. Grey, Esq.,  
Beaconsfield.

The sample of lode material and flotation products received  
from F.I. Grey, Esq. on the 15th & 17th instant  
and stated to be from Renison Bell have ~~has~~ been  
examined, with the following results:—

Registered Number	Constituents	Per Cent.	Per Ton		
			Ozs.	Dwts.	Grs.
316	1. "From 7 faces. General sample"	2.5			
317	2. "Lead ore"	0.98			
352	"Concentrate + 150 mesh"	0.32			
353	"Silicious residue + 150 mesh"	2.64			

*W. E. Hanson*