

22. R. 580

EXAMINATION OF PRODUCTS FROM GIPPS CREEK
BATTERY.

Introduction

At the request of Mr. Darrell Hayes of the Ben Lomond Perpetual Republic syndicate, the Chief Chemist and Metallurgist visited the battery, which consisted of a five head stamp battery the discharge from which went to a table. The table produced a tailing, middling and concentrate. The middling was returned to the table feed.

Samples

The samples of table feed and table tailing were taken by frequently cutting the pulp stream over a period of two hours. The concentrate sample was a grab from the concentrate drum.

Assays

The samples assayed:—

Table feed	2.5 % tin
Table tailing	0.53% tin
Concentrate	41 % tin

Sizings

The above mill products were sized and the fractions assayed for tin.

Table Feed

Assay sample 2.54% tin

Sizing

Mesh	Weight	Tin	Per Cent Tin Distribution
+ 44	32.8	0.76	10.0
+ 60	10.9	1.71	7.4
+ 100	14.9	3.22	19.2
+ 150	8.5	4.42	15.0
+ 200	9.0	4.32	15.6
- 200	23.9	3.43	32.8
Composite	100.0	2.50	100.0

Table Tailing

Assay sample 0.53% tin

Sizing

Mesh	Weight	Tin	Per Cent Tin Distribution
+ 44	31.7	0.34	18.8
+ 60	11.4	0.29	5.8
+ 100	16.4	0.36	10.3
+ 150	10.1	0.36	6.3
+ 200	10.9	0.40	7.6
- 200	19.5	1.51	51.2
Composite	100.0	0.57	100.0

Table Concentrate
Assay sample 41.0% tin

Sizing	Mesh	Weight	Tin	Per Cent
				Tin Distribution
	+ 200	73.0	39.9	72.1
	- 200	27.0	41.7	27.9
	Composite	100.0	40.4	100.0

Conclusions

As expected the recovery of tin in the minus 200 mesh fraction is poor, but overall about three-quarters of the tin is being recovered.

Section 2 — Ceramic Investigations

by D. Clements