

TR2-163  
R. 313

## ZEEHAN MINES PTY. LTD.

### FLOTATION TAILINGS—OCEANA MINE

A sample of mill flotation tailings was submitted by the company for investigation of cause of loss of lead and recommendations for reduction of losses. The sample was stated to be representative of milling operations for the week ended May 3rd, 1957, and the anticipated lead content was about 0.6%.

#### Investigation

The sample was assayed for total and oxide lead, and a sizing analysis undertaken as a preliminary to further examinations. Due to the low lead content mineragraphic examinations were discontinued.

No responsibility is accepted for the results shown in this report in so far as they apply to the sample tested.

#### Summary

1. The sample contains 0.21% of lead of which 0.02% is present as oxide minerals.

2. The sizing analysis of the sample shows 92% — 85-mesh B.S. size, and 64.4% — 200-mesh. The — 200-mesh fraction was sized into seven fractions in a Haultain Infrasizer, and 20.1% reported in fraction 7 with an assay value of 0.45% lead. Nominal grain size for this sizing for galena or cerussite is — 6 microns, and the lead content in this fraction is 42.9% of the total.

#### Sizing Analysis

Fraction B.S. Screen					Percent	Percent Cumulative
+	52	..	..	..	0.8	0.8
+	60	..	..	..	1.0	1.8
+	85	..	..	..	6.2	8.0
+	100	..	..	..	3.1	11.1
+	150	..	..	..	16.1	27.2
+	200	..	..	..	8.4	35.6
I.S.	1	..	..	..	10.6	46.2
I.S.	2	..	..	..	9.6	55.8
I.S.	3	..	..	..	8.2	64.0
I.S.	4	..	..	..	6.3	70.3
I.S.	5	..	..	..	5.3	75.6
I.S.	6	..	..	..	4.3	79.9
I.S.	7	..	..	..	20.1	100.0
					100.0	