

Table 3: Overall Heavy Liquid Separations

Specific Gravity	Component	Weight	%Weight	% Tin	Distribution
<2.96	Floats	567.41	79.68	0.03	4.69
2.96 →	Middlings	27.24	3.83	1.23	9.21
3.30					
>3.30	Sinks	19.94	2.80	13.58	74.56
Fines	Fines	97.50	13.69	0.43	11.54
Total	Head	712.09	100.00	0.51	100.00

Table 4: Sink Department at 3.30 S.G.

Size	%WT	%Sn	Recovery	Head %Sn	Upgrading Ratio
+ 1180	0.94	18.2	63.30	0.27	67.4
+ 600	1.30	20.9	84.63	0.32	65.3
+ 300	3.90	13.8	94.92	0.57	24.2
+ 150	5.92	10.7	97.17	0.65	16.5
+ 75	4.37	13.2	93.78	0.62	21.3
TOTAL + 75	3.25	13.6	91.94	0.48	28.3

BT 66

Tin distribution was evenly distributed throughout the sample with 17 percent of the tin reporting to the minus 75 micron fraction. Tin department to sinks peaked at sizes less than 212 microns and this compared favourably with the weight department trends.

Liberation of cassiterite was good with the + 1180 micron 3.30 S.G. sink product assaying 25.0 percent tin. Overall 3.30 S.G. sink assay was 14.7 percent tin with the main dilutents being free biotite and topaz.