

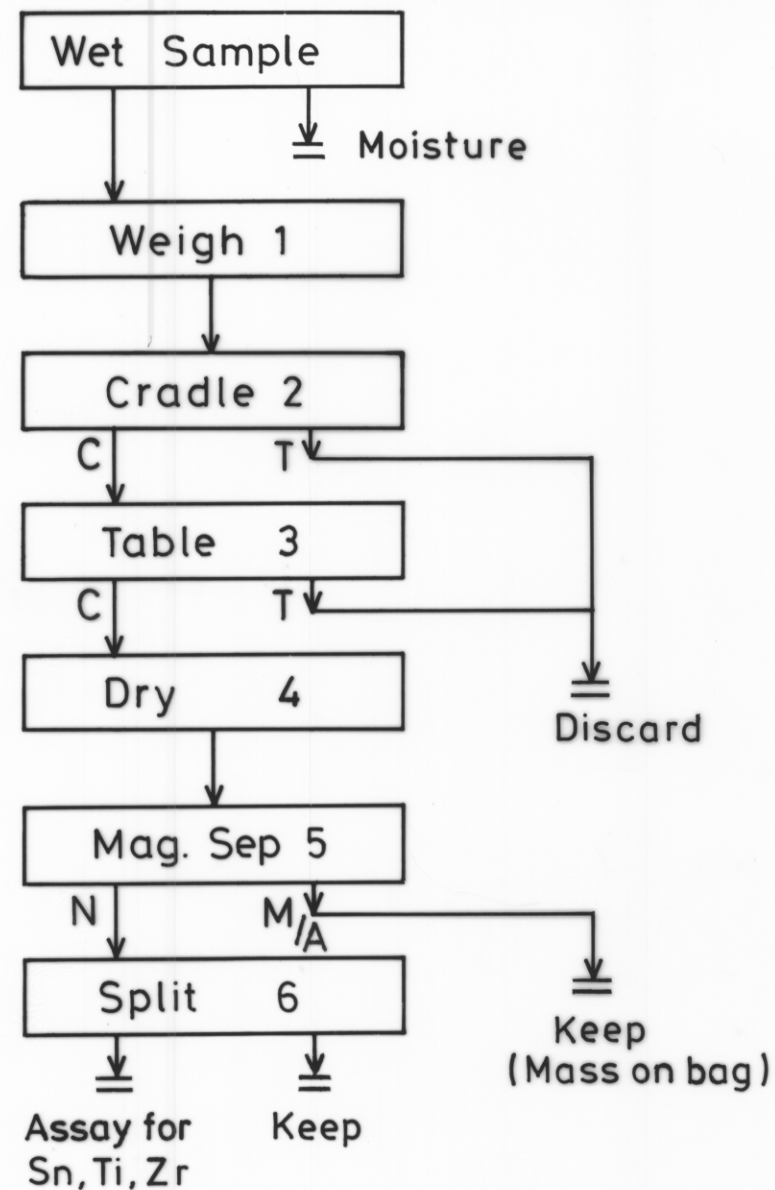
5 cm

R818

OCEAN MINING A.G.

Drilling Program 1966-67, Ringarooma Bay

FLWSHEET FOR SAMPLE TREATMENT



CALCULATION SHEET

Reg. No.	Wet Mass (kg)	Moisture		Dry Mass (kg)	Non-Mag.			Head Assay				
		Wet Mass(g)	Dry Mass(g)		Mass (g)	Assay %			N %	Metals (g/t)		
					Sn	Ti	Zr			Sn	Ti	Zr
Example 669999	12.65	210	180	(10.85)	212.3	1.2	10.6	15.3	(1.7)	(236)	(2080)	(3000)
					( ) = calculated figures							
symbols	$W_w$	$w_w$	$w_d$	$W_d$	N	S	T	Z	n	s	t	z

CALCULATIONS

DRY MASS

$$W_d = \frac{W_w \cdot w_d}{w_w}$$

where  $W_d$  = dry mass in kg  
 $W_w$  = wet mass in kg  
 $w_d$  = dry mass of sample in gm  
 $w_w$  = wet mass of sample in gm

NON-MAGNETIC FRACTION

$$n = \frac{N}{10 \cdot W_d}$$

where  $n$  = % non-mags in head  
 $N$  = mass of non-mags in gm

METAL CONTENT OF HEAD SAMPLE

$$m = \frac{10 \cdot N \cdot M}{W_d}$$

where  $m$  = metal content in g/t  
 $M$  = % of M in non-mags

$$= 100 \cdot n \cdot M$$

hence  $s = 100 \cdot n \cdot S$   
 $t = 100 \cdot n \cdot T$   
 $z = 100 \cdot n \cdot Z$

where  $s$  = tin content in g/t  
 $S$  = % tin in non-mags  
 $t$  = titanium content (rutile)\* in g/t  
 $T$  = % Ti in non-mags  
 $z$  = zirconium content (zircon)\* in g/t  
 $Z$  = % Zr in non-mags

\*this refers to titanium and zirconium occurring as rutile and zircon respectively and not to the amount of these minerals present.