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DEPARTMENT OF MINES—TASMANIA

LAUNCESTON OFFICES  
287 WELLINGTON STREET  
SOUTH LAUNCESTON 7250

TELEPHONES:

Metallurgical Research .. .. .	} 44 2431-2 (2 lines)
Laboratory .. .. .	
Mines Inspection .. .. .	
Explosives & Inflammable Liquids .. .. .	

10th May, 1977.

Comalco Ltd.,  
Exploration Department,  
P.O. Box 691,  
DEVONPORT, 7310  
Tasmania.

Dear Sirs,                      R.745: Moina Wrigglite

The first stage of this project has now been completed. On Table I the tin and tungsten distributions on the magnetic separation products from Grinds A, B and C are given together with the tungsten and iron distributions from Grind D, a new grind with 95% passing 300µm.

Although the results from D do not fit into the sequence of results obtained from A, B and C the main difference is in the mass of the M/S 4 M/A 2 product.

In Table II are given the results of heavy liquid separations of the size fractions made from the head sample. It will be seen that scheelite appears to be freed from 300µm down hence we propose in the second stage to grind to pass 300µm then do a magnetic separation. The magnetic fraction would be further ground and magnetically separated in stages until all passed 38µm.

The initial non magnetic fraction would be sized hydraulically then the sized fractions tabled. Table middlings would be further ground and tabled down to all passing 38µm.

Some combination of products from the non magnetic products from the initial magnetic fraction treatment and middlings produced from the initial non-magnetic fraction is possible. Some further magnetic separation is possible in the non magnetic treatment. Also at some stage flotation to remove the sulphides will have to be fitted in to the program.

We will begin Stage II now but until we get some results from the first tests details of what will be done are difficult to forecast.

Yours faithfully,

(H.K. Wellington)  
Chief Chemist & Metallurgist