

386  
c.c. W. H. Andrews  
J. C. Nixon  
M. R. Rayner  
Cairns Office  
Devonport Office

EL 7/74 221480  
MOINA BENEFICIATION

WV

12th July 1976

Mr. F. R. Hartley,  
Director,  
Australian Mineral Development  
Laboratories,  
Flemington Street,  
FREWVILLE, S.A. 5063

Dear Sir,

Beneficiation/Treatment of Fluorite Ore From Moira,  
Tasmania.

Following the completion of the investigation into the chemical extraction of fluoride from Moira fluorite ore by J. E. A. Gooden, R. J. and D. J. Ellis - Report: CM 2873/76, we believe the time is now opportune to consider the procedure for more thorough and detailed beneficiation/treatment studies aimed at producing saleable products.

Preliminary drilling has been completed at Moira, this had "indicated" in excess of ten million tonnes of opencuttable fluorite ore, which also contains: tin, tungsten and magnetite. Before spending more money on exploration drilling, it is essential to determine whether or not this fluorite ore can be beneficiated/treated to recover economic quantities of:-

- (i) acid grade fluorspar
- (ii) metallurgical grade fluorspar
- (iii) or, if chemically treated -  
fluorine compounds such as aluminium fluoride ( $AlF_3$ )  
and hydro-fluoric acid (HF)
- (iv) tin concentrate
- (v) tungsten concentrate
- (vi) magnetite

cont'd ..... 2