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30th March 1976

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

Attention: Mr. J. Gooden

Dear Sir,

Chemical Treatment of Fluorite Ore

Further to your letters of 9th and 15th December, 1975 and discussions with Dr. J. C. Nixon and W. H. Andrews of Comalco, we are forwarding to you two samples of "fluorite magnetite skarn" / low grade fluorite ore (about 20% CaF₂) from Moina area in Tasmania. The samples are not representative of the whole ore body, much more drilling will be required before truly representative samples can be made available.

The analyses of the two samples are as follows:-

| <u>Analysis</u> | <u>Moina 1</u> | <u>Moina 2</u> |
|--------------------------------|----------------|----------------|
| CaF ₂ | 25.2 % | 20.5 % |
| CaO | 5.1 % | 2.4 % |
| CaCO ₃ | 1.1 % | 0.9 % |
| MgCO ₃ | 0.2 % | 0.2 % |
| FeCO ₃ (?) | 0.7 % | 0.8 % |
| Fe ₂ O ₃ | 29.9 % | 34.1 % |
| SiO ₂ | 20.0 % | 22.9 % |
| TiO ₂ | 0.1 % | 0.1 % |
| Al ₂ O ₃ | 10.2 % | 9.5 % |
| Zn | 700 ppm | 1060 ppm |
| Pb | 15 ppm | 15 ppm |
| Cu | 115 ppm | 70 ppm |
| Bi | 605 ppm | 325 ppm |
| Mo | 50 ppm | 110 ppm |
| Sb | 55 ppm | 45 ppm |
| W | 1270 ppm | 1190 ppm |
| Au | 0.1 ppm | 0.1 ppm |
| Sub-total | 92.78 | 91.67 |
| L.O.I. | ~7 % | ~8 % |

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