

369



COMALCO

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MEMORANDUM

COMALCO LIMITED

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| Ref    | JCN:pt        | Date    | 15th January, 1976.   |
| To     | A.H. BARTLETT | From    | J.C. NIXON            |
| At     | I.A.C.        | At      | '95'                  |
| Copies | -             | Subject | <u>FLUORITE SKARN</u> |

As discussed, I visited Amel on 13 January and discussed the substance of the Amdel letter dated 9 December 1975 with John Gooden, officer-in-charge of the Chemical Engineering Section.

Amdel had a change of mind since the letter was written and declined to give details of the process. All I could ascertain was that it involved a calcination, as in a rotary kiln, at 400°c for 1 hour at temperature, followed by a leach. The fluoride would end up in a solution that should be substantially free from iron and silica.

I handed Gooden a copy of an analysis of the material but they were not able to predict the behaviour of all of the minor elements. It was thought that tin would remain in the residue after leaching.

Amdel suggested that a 100 g. or preferably 200 g. sample should be forwarded for a few preliminary experiments. Analysis of major elements would be conducted on the product and a sample would be forwarded to us for determination of the minor elements.

The cost of this work would be \$750. It would not matter that the sample was not representative of the deposit, provided it was typical of the type of ore.

*J.C. Nixon*  
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