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EXAMINATION OF METASOMATIC FLUORITE-BEARING ROCKS

1. INTRODUCTION

Two samples (labelled M2/194/1 and M2/200/4) were received from Comalco with a request for mineragraphy, X-ray diffraction examination and spectrographic analysis. The samples are fragments of drill-core collected from a skarn locality.

2. RESULTS

2.1 X-ray Diffraction Results

X-ray diffraction analysis of a relatively large sample of each rock gave the following results:

Sample M2/194/1

Biotite	Dominant
Magnetite	Subdominant
Fluorite	Accessory

Sample M2/200/4

Fluorite	Dominant
Magnetite	Subdominant
Amphibole	Subdominant
Chlorite	Trace
Mica	Trace

D = Dominant. Used for the component apparently most abundant, regardless of its probable percentage level.

SD = Subdominant. The next most abundant component(s) providing its percentage level is judged above about 20.

A = Accessory. Components judged to be present between the levels of roughly 5 and 20%.

Tr = Trace. Components judged to be below about 5%.

Both X-ray diffraction traces contain several small peaks which were not identified; however, a check was made of numerous minerals which might be expected in skarn-type rocks.