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CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 23rd May 1977

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
SMD 14/10.4
OPAQUES IN CALCAREOUS ROCK

Job No. CMS 77/5/23 Date Received: 17.5.77

Reference PA/T/MOINA 2

Sample No. SMD 14/10.4

Nature of Sample: D.D. Core

DESCRIPTION SECTION No. 21202

a. Hand Specimen:

Dark grey fine-grained rock. Disseminated sulphides.

b. Microscopic:

The following opaque minerals were detected in a polished section: carbonaceous matter, pyrite, pyrrhotite, and graphite.

Carbonaceous Matter Estimates are difficult, but this substance could well comprise 2 -3% of the rock; more importantly however, is its distribution as semi-continuous streaks, layers and ptigmatic veins. This is particularly well shown on a surface etched with HCl. The carbonaceous matter is probably sub-graphitic and can be expected to be a good conductor. Traces of graphite have formed sporadically, as thin, isolated flakes.

Sulphides These total about 1% or less, and occur as small, scattered, isolated grains 5µ to 100µ in size, occasionally up to 1mm as porous patches. It seems that most or all the original sulphide was pyrrhotite, but is now pyritised except for occasional small grains, judging from relict textures.

Unetched areas on the acid-treated surface are probably areas of dolomitisation, and seem to contain most of the sulphide (see next description - 13.6m).

H.W. Fander, M.Sc.