

UR1960/16

GE/1

14th April, 1960

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MEMORANDUM

Clays collected by Senior Geologist T.D. Hughes at Wesley Vale are described hereunder.

No. 1 Bore hole

Mottled white and reddish and yellowish brown clay.

Under the microscope the white material consists of thin flakes with fibrolamellar structure, low birefringence and refractive index slightly above that of clove oil.

The yellow and red materials are similars and show progressive staining by iron oxides.

No quartz was observed.

No. 1 bore-hole 62 - 65'

Brown clay with white patches. Under the microscope this material was similar to the foregoing.

No. 2 Bore Hole

Grey, yellow and reddish brown clay, all containing minute white patches of relatively pure clay mineral.

The grey material contains clay mineral and grains of quartz and felspar with opaque clay coatings.

The yellow material contains concentric and unoriented fibrolamellar aggregates of material with low refractive index and birefringence. Quartz is present in very small amount or entirely absent. The red clay is a similar but deeper stained by limonite.



(G. Everard)
MINERALOGIST AND PETROLOGIST

Director of Mines,
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