

GE/1

4th July, 1958

MEMORANDUM

The following specimens were collected near Whitemark by Senior Geologist T.D. Hughes.

1. Brownish grey, almost massive, sheared bedded rock

In thin section the rock is a filled mass of small flakes of yellowish brown pleochroic mica, and quartz grains.

The rock is a siltstone which has undergone low grade metamorphic alteration.

LOCATION. L. BAILEY'S FARM - 18' IN WELL

2. Light brown dense calcareous rock, with included sand grains and shall fragments.

In thin section the rock is a very fine grained calcareous mass stained by limonite and including rounded grains of quartz, shelly fragments and foraminiferal tests.

The rock is a limestone.

LOCATION. OUTEROP NEAR SCHOOL

3. Fine grained rock similar in nearly all respects to No. 2 but not stained by limonite to any extent

LOCATION. HOTEL BORE 40'

4. Dark coloured rock composed of black porous fragments cemented together by carbonate of lime.

LOCATION. HOTEL BORE 40'

In thin section the black fragments appear as a brown glass and a green zeolite. The glass contains many pores some of which are filled with zeolite spherulites and others with calcite. Some fragments consist entirely of masses of zeolite spherulites. The refractive index of the glass varies being in some parts lower than Canada balsam, in others, higher. Plagioclase and olivine occur as relict minerals from the original glass.

The rock is a palagonite tuff.

*G. Everard*

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MINERALOGIST AND PETROLOGIST

The Director of Mines,  
HOBART