

Section 1—Economic and General Geology

TR9-10-11

1 BRICKMAKING MATERIAL NEAR WYNYARD

by V. M. Threader.

At the request of a Wynyard syndicate a clay deposit near Wynyard was examined. It is proposed to establish a brick making industry using this material.

This investigation occupied 3 days, June 9th-11th, and a theodolite survey was made concurrently by B. Knox, surveyor of the Department of Mines.

The location is 3 miles south of Wynyard on Quiggins Road. There are 2 areas:—

Area A: East of Camp Creek in State forest, immediately to the south of a pine plantation and bounded on the west by Quiggins Road, and on the east by a private road. These two roads junction at the SW corner of the plantation and the lease peg and notice are in a quarry 200 yards south from this point.

Area B: West of Camp Creek in private land. It is the smaller of the two areas.

The deposit consists of varved claystone and siltstone of fluvio-glacial origin and Permian age. It has been described by Banks *et al.* (1955) as varved mudstone occurring within a tillite formation. Tillite occurs in a tributary of Camp Creek below Area B and the hill slope above Area B is covered with glacial erratic scree. If the varved mudstone is here overlain by tillite, then there is either faulting between the two areas with a downthrow to the west or a 5° westerly dip of the beds. A slight northerly dip carries the varves to creek level thus further limiting their extent in Area B.

Test pitting or drilling would be necessary to determine the dip of the varves, and this information would be required for a calculation of reserves below overburden.

A reconnaissance traverse was run for half a mile westerly from Area B. The ground traversed was thickly wooded and covered with glacial erratics indicating that the tillite overburden covers the whole slope.

Samples of the material have been taken by the Department of Mines and a separate report on its suitability for brick making has been prepared (p. 185).

Area A covers 45 acres after allowing for a reserve to protect the upper road, which gives approximately 2½ million cubic yards of material above Quiggins Road level. Little, if any, overburden would have to be stripped and discarded.

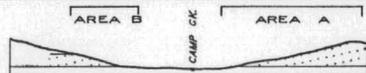
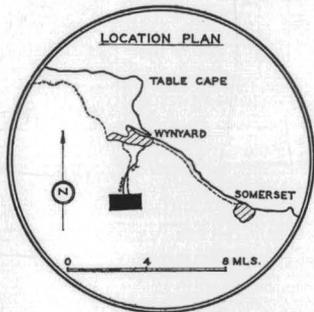
Area B covers 8 acres from the alluvial flat level to the cut-off, which gives approximately 340,000 cubic yards. As mentioned earlier, pitting or drilling upslope from the cut-off would be necessary to determine the extent of this material beneath the overburden.

The area between Camp Creek and the road may also contain suitable material but it was not examined as it is low lying and thickly timbered.

Reference

- BANKS, M. R., LOVEDAY, J. L., SCOTT, D. L., 1955.—Permian varves from Wynyard, Tasmania. *Pap. Roy. Soc. Tas.*, 89, 203-218.

VARVED CLAY DEPOSIT WYNYARD



SECTION A A'

PINE
PLANTATION

WYNYARD 3M.

AREA A



MAG

AREA B

CAMP SCREERS

SAMPLE

SAMPLE A'

OVERBURDEN

TILL

NOT EXAMINED

A

SAMPLE
S.W. CORNER
OF LEASE
(ASSUMED DATUM=100)

SANDY HILL CAPPING
(TERTIARY?)

IMPROVED

PASTURE

ROUGH WOODED
AREA

GLACIAL

LEGEND

ALLUVIUM

VARVED CLAY

TEST PIT

BOUNDARY OF AREA FOR
RESERVES CALCULATION



SCALE IN FEET

SURVEY BY B. KNOX

V. THREADER
GEOLOGIST
JUNE 1964

FIGURE 2.

5 CM