

117/7

2nd November, 1944.

MICRO-EXAMINATION OF FURTHER SAMPLES FROM BORE NO. 3825
ON E.W. LANGBIEN'S PROPERTY, DULLARCOON STATION,
BOURKE, NEW SOUTH WALES.

(Report No. 1944/42).

- 950 feet - Carbonaceous shale with poorly preserved foraminifera (cf. Pelosina, Haplophragmoides chapmani, H. sp., cf. Textularia, Spiroplectammina sp.).
- 1000 feet - Brown, carbonaceous rock, with poorly preserved foraminifera (Haplophragmoides sp., Textularia sp., Trochammina racgatti), and fragments of pelecypoda indeterminate.
- 1034-1050 feet - Carbonaceous sandstone. No organisms.
- 1094-1150 feet - Sandstone, with angular quartz grains, mica and glauconite.
- 1200 feet - Sandstone with a little carbonaceous material.
- 1250 feet - Whitish sandstone.
- 1284-1350 feet - Greenish-grey shale.
- 1400 feet - Sandstone with limonitic material.
- 1450 feet - Greenish-grey shale.
- 1500-1700 feet - Dark grey schistose rock.

NOTE ON THE SAMPLES.

The present series of samples from Bore No. 3825 on E.W. Langbien's property near Bourke are from 950 feet down to 1200 feet. Samples from 50 feet down to 450 feet were reported upon 7/12/43. It is regretted that samples from between 450 feet and 950 feet are missing for they possibly represent the main fossiliferous horizon. The Water Conservation and Irrigation Commission (3/7/44) stated that they "were taken from the boring plant and probably included with the samples to 1500 feet despatched on 17th February last". So far they have not been traced in this Branch.

Only two samples of the present series, namely, those from 950 feet and 1,000 feet contain a micro-fauna. The foraminifera are very poorly preserved, but typical Lower Cretaceous species, such as Haplophragmoides chapmani and Trochammina racgatti can be recognised.

Foraminifera of a similar age were reported at the depth of 250 feet (7/12/43).

The samples from 1034 feet down to 1700 feet (the last sample received for micro-examination, the bore finishing at 1706 feet) are unfossiliferous and there is no evidence to indicate the age of the beds.

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