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#### COMMONWEALTH OF AUSTRALIA

# DEPARTMENT OF NATIONAL DEVELOPMENT BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

**RECORDS:** 

1943/11

MICROSCOPIC EXAMINATION OF SAMPLES FROM NO. 27 BORE, PEG 300, FEET MIRBOO NORTH, GIPPSLAND

bу

I. Crespin

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#### DEPARTMENT OF SUPPLY & SHIPPING.

### Hineral Resources Survey.

## Report Fo. 19/3/11.

# HICROSCOPIC EXAMINATION OF SAMPLES FROM NO. 27 BORE, PEG 300 FEET BURBOO FORTH, GIFFSLAND.

0-8 feet - Ochreous sandstone, consisting almost entirely of coarse to fine angular quartz grains.

8-11 feet - Ochroous sandstone, consisting of quarts grains and pebbles also particles of grey clay.

Marks grains and clay particles.

13-26 feet - Quartz send, concisting of coarse to fine engular grains.

26-34 feet - Lignitic shale, containing fragments of carbonecous material, foreminiters, bryonce and ostrocode.

Foraminifere - Bulinine sculeate, Bolivine sp., Globinerina trilchus, Globinetalia cr. ilibriata, Spirillina decorata, Planulina unclleretorii, Cibicides uncerianus, C. cr. psoulogumerianus, Discorbis sp., Bonion vabilicatule, Elobidium crespines.

Pryozoa - Adeonallopsis sp.

Octraceda - Arleia clevete, Alatacythere procentWareticu

31-38 feet - Lignite, containing fragments of carbonaceous meterial, angular to subengular quartz grains, ? resin and formulaifora (Elphidium crespinas).

38-18 feet - Beuritic clay.

50-83 feet - Baurite.

No. 27 Boro, Mirbon North, is one of a series of bores being drilled in that area to prove the extent of the bauxite deposits.

From the surface down to the depth of 26 feet, the bore passes through sands and sandstenes, which are Post Pliceone in age. Lignous shale and lignite are present from 26 feet down to 38 feet. The sample from 26 to 34 feet contains several small foraminifers and estraceds, with small fragments of bryogog. One foreminifer is present in the sample 34 to 38 feet. The formetreferable to those recorded from similar beds underlying the marke scalingate in beres east and south-east of Sale. The present discovery of marke influence in the lignitic beds everlying the bauxite deposits at Hirboo North is probably the first west of Sale, for, as far as is known, these beds have not been proviously examined microscopically for evidence of such an influence. Lignitic beds have been proved by boring, to extend as far vest as Hoe, but it is understood they have not been recorded as far to the couth-west as Hirboo North.

CAMBERRA, A.C.T. lat February, 1943.

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