COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

RECORDS:

1742/13 A.

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30th May, 1942.

REPORT ON NO.2 BORE, BORONGA, NORTH OF MOREE, NORTHERN NEW SOUTH WALES.

Received from the Water Conservation & Irrigation Commission during October, 1941 & March, 1942.

- 25-58 feet Unconsolidated, moderately coarse sandstone, consisting almost entirely of moderately coarse to fine, subangular quartz grains, many ironstained and with a little biotite.
- 75-feet Moderately fine, loose gravel with pebbles of quartz, quartzite and sandstone.
- 100-125 feet Sandy clay, with numerous small pebbles, a little mica and a few fragments of bryozoa (Hornera sp.).
- 150-175 feet Cream coloured to ochreous, grey to reddish gritty clay.

 No organisms.
- 178-194 feet Particles of hard, brownish sandstone.
- 200-225 feet Similar to 150-175 feet consisting chiefly of quartz, with numerous particles of ferruginous sandstone and a few fragments of bryozoa (cf. Cribrilina, Retepora beaniana, Filisparsa sp.).
- 250 feet Light grey to ochreous, gritty clay. No organisms.
- 275-304 feet Grey to ochreous, clayey sandstone, with fragments of carben-accous material including seed pod indeterminate.
- 353 feet 403 feet Grey to light grey, calcareous sandstone, with mica.
 No organisms.
- 440 feet Loose gravel.
- 445-503 feet Grey, sandy mudstone, with pyrites and carbonaceous material.
- 533 feet Loose gravel.
- 539 feet Unconsolidated, grey sandstone with carbonaceous material.
- 603-653 feet Grey, sandy mudstone, with fragments of limestone, pyrites and biotite common, and a worn fragment of bryozoan at 653 feet.
- 703 feet Fine-grained, light grey, calcareous sandstone containing aggregates of pyrites and carbonaceous particles.
- 752'-852'6" Greenish-grey, calcareous sandstone containing pyrites, carbonaceous material, mica, foraminifera rare (Ammobaculites sp. at 803 feet), and cf. worm tubes.
- 902 feet Grey, sandy, calcareous mudstone with fragments of carbonaaccous shale.
- 952 feet Ditto, with foraminifera (Lenticulina sp., Globigerinoides trilobus, Globigerina sp.).
- 1003'-1302'6" Ditto, but no foraminifera present.

1353 feet Grey mudstone, consumina). Grey mudstone, containing some carbonaceous material and

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hale with quartz grains, fragments of carbonaceous shale, www.aramminoides so. Haplophragmoides sp., cf. Glomo-1451'6 (Hyperamminoides sp., Haplophragmoides sp., cf. Glomoellites sp., Spirople ctammina of scotti, cf. Spirople ctoides. Anomalina sp.)., and an ostracod indeterminate.

t - Little and foraminifera (cf. Heophax, Ammobaculites sp.,
Haplophragments sp., Trochammina sp., Lenticulina cf. rotulata).

- Grey shale, with quartz grains, and a few foraminifera (cf. Rzehakina, Arenobulimina puschi, Lenticulina sp.). 1551'6"

1601'6" -Similar to 1503 feet.

Grey shale, with a few carbonaceous particles, and foraminifers (Ammobaculites ep., Haplophragmoides sp., Arenobulimina sp.).

1701 feet -Grey shale, with some calcareous material, carbonaceous fragments, foraminifera (Hyperamminoides sp., Haplophragmoides spp., Ammobaculites sp., cf. Crithionina, cf. Glomospira, Trochammina sp., Nodosaria sp., Lenticulina sp.).

1751'6" - Similar to 1701 with quartz grains, pyrites, foraminifera

(cf. Haplophragmium asquale, Ammobaculites sp., Verneuilina polystropha
Textularia sp., Spiroplectoides sp., Lagena glebosa, Rodosaria
subtertenuata, Lanticulina cf.gibba, L.cf. totulata, Marginulina
bullata, Cibicides Iobatulus, Anomalina sp.), and radiolaria.

-1804 feet -Fine mudstone.

Grey shale, with carbonaceous shale and foraminifera rare (Ammobaculites sp., Raplophragmoides sp.).

Fine, grey mudstone. 1904 feet -

1954 feet -Carbonaceous shale containing numerous coal fragments, some foraminifera (Cassidulina of substabas, Cibicides sp., Heronellenia sp., Gyroidina umbilicata) and bryozoan, Crista sp.

2004 feet - Similar to 1904 feet. No organisms.

Similar to 1954 feet with foraminifers (Ammobaculites sp., 2054 feet -Haplophragmoides sp., of Trochammina sp., Arenobulimina puschi).

2104 feet - Fine quartz grains and numerous coal fragments.

No.2 Bore, Boronga is situated north of Moree, near the New South Males - Queensland border. The samples forwarded for microfaunal examination were from between the depths of 25 feet and 2104 feet.

From 25 feet down to 75 feet, the beds consisted of unconsolidated sandstones and gravels of Tertiary age.

From 100 feet down to 250 feet, the samples consisted of clay material, which when washed, contained fine, angular quartz grains, some liminite and small fragments of bryozoa referable to genera which are characteristic of both the Upper Cretaceous and Tertiary.

At 275 feet, the boring passes into definite sediments of Lower Cretaceous age in which carbonaceous fragments are common. The first foraminifer (Ammobaculites sp.) was met at 803 feet.

From 902 feet down to the base of the bore at 2104 feet, the statements consisted of alternating shales and mudstones, coal fragacts being prominent from 1954 feet down to 2104 feet. A feature beds is the presence of a persistent assemblage of the presence o

bridge treately, the majority of specimens are crushed and bridge to the pecific determination impossible. The assemblage is specific to the proof of from W.R.Johnston's Bore near Bourke between the period of the

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