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DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

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MICRO- EXAMINATION OF SAMPLES FROM BORE No.3843 ON
Mr.A. HOLMES' PROPERTY, "KERRIBREE", BOURKE,
NEW SOUTH WALES

by

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DEPARTMENT OF SUPPLY & SHIPPING.

Mineral Resources Survey Branch.

MICRO-EXAMINATION OF SAMPLES FROM BORE NO. 3843 ON MR. A. HOLMES' PROPERTY, "KERRIBREE", BOURKE, N.S.W.

Report No. 1944/23.

- 100 feet - Greenish grey, carbonaceous shale, containing plant remains indeterminate, foraminifera (Reophax sp., Haplophragmoides sp., Bigennerina sp., Ammobaculites sp., Arenobulimina sp., Marginulina sp., Lenticulina sp., Planulina cretacea) radiolaria (Porodiscus sp.), fragments of an echinoid and ostracoda indet.
- 150-250 feet - Grey, carbonaceous shale. No organisms.
- 300 feet - Grey sandy shale, with foraminifera rare (Ammobaculites sp.).
- 350 feet - Ditto, with foraminifera (Ammobaculites sp., Haplophragmoides chapmani).
- 400 feet - Ditto, with foraminifera (Marginulina sp.), fragments of echinoid and ostracoda, (Cytheropteron cf. concentricum).
- 450 feet - Ditto, with foraminifera (Arenobulimina cf. puschi, Lenticulina sp., Anomalina rubiginosa) and ostracoda (Cytheropteron cf. concentricum).
- 500-600 feet - Ditto, but no organisms.
- 650 feet - Ditto, with foraminifera, Marginulina subcretacea, M.sp.)
- 700 feet - Ochreous sandy shale. No organisms.
- 750 feet - Grey carbonaceous shale, with foraminifera (Ammobaculites sp., Trochammina raggatti).
- 800 feet - Ditto, with foraminifera (Ammobaculites sp., Planulina cretacea).
- 850 feet - Grey carbonaceous shale and sandstone with foraminifera (Ammobaculites sp., Spiroplectammina cushmani, Marginulina subcretacea).

Note on the Samples.

Bore No. 3843 on the property of A. Holmes is situated $4\frac{1}{2}$ miles northwest of Ford's Bridge Bore.

The samples examined were from the depth of 100 feet down to 850 feet. The majority of the samples, which, except for that at 700 feet, were carbonaceous shales and sandstones, contained a micro-fauna similar to that found in Bore No. 3797 on the same property and reported upon on February 19th, 1943.

In addition to the foraminifera and ostracoda, several small fragments of an echinoid were present at 100 feet and 400 feet. Radiolaria were also noted at 100 feet.

The assemblage of foraminifera and ostracoda in the samples from Bore No. 3843 is similar to that already recorded from other bores examined in the Great Artesian Basin of Northern New South Wales.

CANBERRA, A.C.T.,
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