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COMMONWEALTH OF AUSTRALIA.

DEPARTMENT OF SUPPLY AND SHIPPING.
BUREAU OF MINERAL RESOURCES
GEOLOGY AND GEOPHYSICS.

REPORT No. 1949/72
(Pal. Ser. No. 8)

MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM
A BORE ON THE PROPERTY OF J.H. FISHER, LOCHINVAR,
CARINDA, PORT. 11, PH. WILLEWA, COUNTY CLYDE,
NORTHERN NEW SOUTH WALES.

by

I. Crespin
Commonwealth Palaeontologist

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- 1 Copy to Director
- 1 Copy on Dr. Fisher's File.
- Original copy on File 117N/10.
- 1 Copy to Miss Chespin.
- 1 Copy to Secretary, Water Conservation and
Irrigation Commission, Sydney.
- 1 Copy to Department of Mines, Sydney.

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- 3-40 feet Sandstones.
- 40-107 feet. Whitish to reddish sandstone composed of angular quartz grains.
- 107-154 feet. Dark reddish, ferruginous sandstone.
- 154-169 feet. Limonitic and whitish clay with angular quartz grains.
- 169-254 feet. Coarse limonitic grit.
- 254-304 feet. Grey carbonaceous shale and sandstone with fragments of indeterminate plant remains, foraminifera, thin shelled mollusca and ostracoda.

Foraminifera: Ammobaculites spp., Anomalina rubiginosa, Haplophragmoides spp., Lagena laevis, Lenticulina spp., Nodosaria sp., Planulina cretacea, cf. Spiroplectammina.

Ostracoda: Cythereis sp., Cytheropteron cf. concentricum.

- 304-404 feet. Dark grey carbonaceous shale and sandstone with foraminifera.

Foraminifera: Ammobaculites australe, Ammobaculites sp., Ammodiscus sp., Anomalina rubiginosa, Haplophragmoides cf. chapmani, Lagena laevis, Lenticulina cf. gibba, Lenticulina gunderbookaensis, Lenticulina warregoensis, Lenticulina sp., Saracenaria cf. acutauricularis.

- 404-454 feet. Ditto, with a few foraminifera, fragments of indeterminate pelecypod and ostracoda.

Foraminifera: Anomalina rubiginosa, Planulina cretacea.

Ostracoda: Cytheropteron cf. concentricum.

- 454-504 feet. Ditto, with foraminifera and ostracoda.

Foraminifera: Ammobaculites australe, Ammobaculites sp., Anomalina rubiginosa, Eponides sp., Haplophragmoides spp., Lenticulina gunderbookaensis, Lenticulina warregoensis, Lenticulina sp., Marginulina bullata, Planulina cretacea, Pyrulina fusiformis, Saracenaria cf. acutauricularis, Spiroplectammina cushmani.

Ostracoda: Bythocypris sp., Cytheropteron cf. concentricum.

- 504-554 feet. Ditto, with a few poorly preserved foraminifera.

Foraminifera: Haplophragmoides cf. chapmani, Haplophragmoides sp.

554-604 feet. Ditto, with poorly preserved foraminifera.

Foraminifera: Haplophragmoides sp., Lenticulina warregoensis, Lenticulina sp.

604-654 feet. Ditto, with a few poorly preserved foraminifera.

Foraminifera: Ammobaculites sp., Haplophragmoides sp., Trochammina sp.

654-704 feet. Ditto, with foraminifera and ostracoda.

Foraminifera: cf. Ammobaculites australe, Ammobaculites sp. Marginulina bullata, Marginulina subcretacea, Planulina cretacea, Spiroplectammina cf. cushmani, Trochammina parvula.

Ostracoda: cf. Bythocypris.

704-754 feet. Ditto, with fragments of limestone and poorly preserved foraminifera:

Foraminifera: Lenticulina gunderbookaensis

754-802 feet. Fragments of calcareous sandstone, Carbonaceous shale and limestone, with foraminifera rare.

Foraminifera: Ammobaculites sp.

NOTES ON THE SAMPLES.

The samples from J.H. Fisher's Bore (No. 8103) near Carinda, about 30 miles south-west of Walgett came from between the depths of three feet and 802 feet. Unfossiliferous sands of Sub-recent to Recent age were present from three feet down to 254 feet. At 254 feet, the bore passed into carbonaceous shales and sandstone typical of the Lower Cretaceous deposits in the Great Artesian Basin. At 704 feet limestone fragments were also present and were still occurring at 802 feet, the last sample received for examination.

These sediments from 254 feet down to 802 feet contain an assemblage of foraminifera and ostracoda which is characteristic of the Lower Cretaceous and which has been recorded from the majority of bores examined in Northern New South Wales. The arenaceous forms were typically crushed and broken, but the hyaline forms were rather better preserved.

In J.H. Fisher's bore (No. 3719) at Wallangambone, about 27 miles south of the present bore, the fossiliferous beds were absent from the samples sent for examination, the first sample received being at 1,564 feet and the last at 2,035 feet. In Dent's Bore (No. 3858) about 6 miles north of Bore No. 8103 and which was carried down to the depth of 1,568 feet, the fossiliferous horizon was recorded between the depths of 300 feet and 563 feet. From observations made on other bores in this part of the Basin, it is not expected that the fossiliferous horizon will extend far below the present depth of 802 feet.

I. Crespin