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COMMONWEALTH OF AUSTRALIA.

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

RECORDS.

1956/79

FORAMINIFERA FROM THE PERMIAN DEPOSITS IN THE

SOUTH EAST CARNARVON BASIN.

WESTERN AUSTRALIA.

by

Irene Crespín.

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Several samples were submitted for micropaleontological examination from Dauric Creek and Byro Plains areas, in the south-east Carverton Basin. Many of these were unfossiliferous but others contained interesting assemblages of foraminifera such as found in the Byro Group in the Wandagee area and in the Callytherra Formation. A detailed list of species found in the samples is given below.

Werra Narrine Formation

WB.185 - 1/2 mile N.N.E. of Bogadi outcrop, 12 feet above base of Formation.

Hyperamminoides acicula Parr

WB.104 -

1 mile N.E. of Bogadi Outcrop, base of Formation.

Ammodiscus nitidus Parr

Hyperamminoides sp.

Redclino Formation

WB.83 - 10 1/2 miles N.E. of Callytherra Springs, 45 feet above the base of the Formation.

Ammodiscus nitidus Parr

Grithionina teichertii Parr

Hyperammina ? rudis Parr

Protocolina sp. nov.

Rooptax subsp. nov.

Thuramminoides sphaeroidalis Plummer

WB.12 - 1 1/2 miles S.S.E. of Callytherra Springs, 95 feet above the base of Formation

Hyperamminoides expansus Plummer

Hyperamminoides acicula Parr

Protocolina sp. nov.

Rooptax asperus Plummer

Thuramminoides sphaeroidalis Plummer

WB.64 - Same locality as W.B. 12 but 98 feet above the base of Formation.

Hyperamminoides acicula Parr

Protocolina sp. nov.

Thuramminoides sphaeroidalis Plummer

Trochammina subobtusata Parr

WB.85 - Same locality as WB.83, 230 feet above base of Formation

Ammodiscus nitidus Parr

Grithionina teichertii Parr

Aploparaspidites sp.

Hyperamminoides acicula Parr

Hyperamminoides sp. nov.

Hyperammina ? rudis Parr

Protocolina sp. nov.

Rooptax asperus Plummer

Rooptax fitzii Plummer

Rooptax subsp. nov.

Rooptax tricameratus Parr

Trochammina subobtusata Parr

Callytharra Formation

Top of the Formation

WB. 27.- 2 miles E. of Callytharra Springs.

Hyperamminoides acicula Parr
Reophax subasper Parr

WB. 28.- Same locality as WB.27

Ammodiscus nitidus Parr
Hyperamminoides expansus Plummer
Hyperamminoides acicula Parr
Trochammina subobtusa Parr

WB, 206.- 3 miles W. of Coordewandy Homestead, 132 feet
above base of Formation

Foraminifera:

Ammodiscus nitidus Parr
Calcitornella sp.
Fronicularia woodwardi Howchin
Fronicularia sp. nov.
Geinitzina triangularis Chapman and Howchin
Geinitzina sp. nov.
Glomospirella sp. nov.
Hyperammina elegantissima Plummer
Hyperamminoides sp. nov.
Nodosaria sp. nov.
Pelosina sp. nov.
Reophax asperus Plummer
Trochilopsis grandis Cushman and Waters
Thuramminoides sphaeroidalis Plummer

Ostracoda:

Cavellina cf. springsurensis Crespin
Healdia sp.

WB. 204.- Same locality as WB.206, 118 feet above base of
Formation.

Ammodiscus nitidus Parr
Calcitornella sp.
Glomospirella sp. nov.
Hyperammina cf. elegantissima Plummer
Hyperamminoides sp. nov.
Gen. nov.

WB. 203.- Same locality as WB.206, 90 feet above base of
Formation.

Ammodiscus nitidus Parr
Hyperamminoides acicula Parr
Hyperamminoides sp. nov.
Reophax tricameratus Parr
Thurammina sp. nov.

WB. 202.- Same locality as WB.206, 70 feet above base of
Formation.

Ammodiscus nitidus Parr
Hyperamminoides sp.
Trochammina cf. subobtusa Parr

Notes on the Samples

Samples WB.101 and 185 come from the highest part of the stratigraphical sequence in the Permian rocks of the area, the Warra Warringa Formation. Only two species were recorded, Ammodiscus nitidus and Hyperamminoides acicula, both of which are common in the beds of the Byro Group.

Samples WB. 12, 61, 83 and 85 are from the Madeline Formation. An excellent assemblage of arenaceous foraminifera is present in the washings and it is similar to that found in the beds of the Bulgadoo Shale and Coyrie Formation of the Wandagee area.

Samples WB.27 and 28 come from the beds in the top of the Callytharra Formation. A few arenaceous species are present, these being found in beds of both the Byro Group and the Callytharra Formation.

The most interesting assemblage of species has been found in samples WB.206, 204, 203 and 202, arranged in ascending stratigraphical sequence, and which come from the Callytharra Formation. Some arenaceous species typical of the assemblage found in the beds of the Byro Group are present in these samples but they are associated with new species of Hyperamminoides and Thuramina which have only been recorded from beds of the Callytharra Formation. Calcareous species typical of the deposits at Callytharra Springs are present in WB.206, which comes from the middle of the section in this area. These include Frondicularia woodwardi, Geinitzina triangularis and Trepeillopsis grandis. The assemblage also includes new species of Nodosaria, Geinitzina and Frondicularia which have recently been found in the beds of the Callytharra Formation and its stratigraphical equivalents in the Kimberleys and Fitzroy Basin. A new species of Geinitzina has only been previously found in a sample from the Jurgurra Bore, Fitzroy Basin at the depth of 494 feet. Moreover, a new genus which has only been recorded previously from the depths of 3,115 - 3,120 feet and 3,220 - 3,225 feet in Giralda No.1 Bore, Carnarvon Basin, in beds equivalent in age to the Callytharra Formation, was found for the first time in outcrop in WB.206.