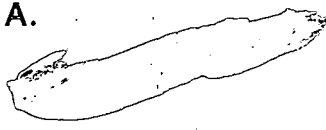


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COMMONWEALTH OF AUSTRALIA.



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

RECORDS.

1956/17.

MICROPALAEONTOLOGICAL EXAMINATION OF CORES FROM DIRK
HARTOG NO. 4 STRUCTURE HOLE, WESTERN AUSTRALIA

by

D.J. Belford

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Five cores from this hole were forwarded for examination by West Australian Petroleum Pty. Ltd.

The fauna found in each core, and the age of the beds are as follows:-

Core No. 1. 1000-1007 feet. Light-grey hard shelly calcilutite.

Globigerina pseudobulloides Plummer
Gavelinella bullata Brotzen
Osangularia lens Brotzen
Vaginulina longiformis (Plummer)
Pullenia jarvisi Cushman
Cibicides perlucida Nuttall
Ranulina sp.
Verneuilina sp.
Textularia sp.

This core is of undoubted Palaeocene age.

Core No. 2. 1123-1133 feet. Light-grey hard friable calcilutite.

Globotruncana arca (Cushman)
G. cf. stuarti. (de Lapparent)
Bolivinoidea decorata (Jones) gigantea Hilberman and Koch
Planulina voltziana (d'Orbigny)
Neobulimina spinosa Cushman and Parker
Verneuilina parri Cushman
Pseudotextularia varians Rzehak
Gublerina sp.
Anomalina velascoensis Cushman
Gyroldina globosa (Hagenow)
Bulimenella cushmani Sandidge
Allomorphina trochoides (Reuss)
Tritaxia cf. ellisorae Cushman
Nodosarella sp.
Neoflabellina rugosa (d'Orbigny)
Bolivina incrassata Reuss

This assemblage is of definite Maestrichtian age; it occurs in the Miria Marl and uppermost beds of the Korojon Calcarenite in the Giralda Anticline, but is unknown from outcrop samples in the Shark Bay or Murchison River areas.

Core No. 3. 1393-1401 feet. Light-grey hard friable calcilutite, with Inoceramus.

Globotruncana arca (Cushman)
G. lapparenti Brotzen tricarinata (Quereau)
Spiroplectammia grzybowskii Frizzell
Marssonella oxycona (Reuss)
Anomalina velascoensis Cushman
Planulina aff. taylorensis (Carsey)
Dorothyia bulletta (Carsey)
Ammodiscus cretaceus Cushman
Bolivina incrassata Reuss
Gyroldina cf. globosa (Hagenow)
Pullenia jarvisi Cushman
Vaginulina suturalis Cushman

Cores Nos. 4 and 5, 1490-1500 feet. Light-grey hard calcilutite.

Globotruncana cf. arca (Cushman)
Marginulina cf. armata Reuss
Marssonella oxycona (Reuss)
Verneuilina parri Cushman
Stensioina sp.
Planulina aff. taylorensis (Carsey)
Spiroplectammina excolata (Cushman)
Dorothia bulletta (Carsey)
Gaudryina laevigata Franke
Anomalina velascoensis Cushman
A. sp.
Eponides simplex White
Gyroldina cf. globosa (Hagenow)
Pleurostomella subnodosa Reuss
Dentalina basiplanata Cushman
Neoflabellina jarvisi (Cushman)
Fronicularia teuria Finlay

These three cores are of undoubted Campanian age, and the formation from which they were taken may be correlated with the Korojon Calcarenite of the Giralia Anticline.