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COMMONWEALTH OF AUSTRALIA.

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

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RECORDS.

1955/117

Micropalaeontological examination of further cores from Dirk  
Hartog No. 1 Structure Hole, West Australia.

by

D. J. Belford.

Canberra, November, 1955.

Micropalaeontological examination of further cores from Dirk  
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Records No. 1955/117.

Cores to a depth of 710 feet in this hole have previously been examined and reported upon, and four additional cores have now been received from West Australian Petroleum Pty. Ltd, between the depths of 800 and 1110 feet. There is a marked lithological change between Core 15 (800-810 feet) and Core 16 (900-910 feet), and also between Core 16 and Core 17 (1000-1010 feet).

The lists of Foraminifera given are not complete, but all diagnostic species have been included.

Core No. 15, 800-810 feet. White, very friable, medium grained, sandy, bryozoal limestone.

Cibicides umbonifer Parr.  
Anomalina sp.  
Globigerina sp.  
Abundant fragments of Bryozoa.

The Foraminifera in this sample are usually broken and poorly preserved, and specifically unidentifiable. The formation from which this core was taken is possibly equivalent to the Wadera Calcarenite.

Core No. 16, 900-910 feet. Grey, friable, fine-grained, calcareous, glauconitic sandstone.

Clavulinoides aspera (Cushman) var. whitei  
(Cushman and Jarvis)  
Vaginulina midwayana Fox and Ross  
Pullenia corvelli White  
Lagena hexagona (Williamson)  
Dentalina cf. jacksonensis  
Textularia sp.

The most abundant forms in this assemblage are Clavulinoides aspera var. whitei and Vaginulina midwayana, which occur in the Boongerooda Greensand and Wadera Calcarenite in the Giralda Anticline. The lithology of the sample suggests that the formation from which it was taken is possibly equivalent to the Boongerooda Greensand.  
Age:- Paleocene.

Core No. 17, 1000-1010 feet. Grey, hard calcilutite.

Globotruncana gansseri Bolli  
Bolivinoidea draco draco (Marsson)  
B. decorate (Jones) gigantea Hilberman and Koch.  
Planulina voltziana (d'Obbigny)  
Bolivina incrassata Reuss  
Verneuilina parri Cushman  
Fronicularia mucronata Reuss  
Anomalina velascoensis Cushman  
Neoflabellina jarvisi Cushman  
Dorothia bullettii (Carsey)  
Ramulina sp.  
?Eggerella sp.

This assemblage is not known from outcrop samples in the Shark Bay or Murchison River areas. In the Giralda Anticline, it occurs in the Miria Marl, and the top of the Korojon Calcarenite.  
Age:- Maestrichtian.

Core No. 18, 1100-1110 feet. Light grey, hard calcilutite.

Globotruncana arca (Cushman)  
G. lapparenti lapparenti Brotzen  
Verneuilina parri Cushman  
Planulina voltziana (d'Orbigny)  
Neoflabellina reticulata (Reuss)  
Anomalina velascoensis Cushman  
Spiroplectammina grzybowskii Frizzell  
Bulimina proluxa Cushman and Parker

This assemblage occurs in the Korojon Calcarenite, and  
in outcrops in the Murchison River and Shark Bay areas.  
Age:- Campanian.