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MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM GRIERSON

NO. 3 STRUCTURE HOLE, CARNARVON BASIN, WEST AUSTRALIA

by

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RECORDS 1955/90.

Should be 1955/90

F.T.

Samples of six cores from this bore were forwarded for palaeontological examination by West Australian Petroleum Pty.Ltd. The fauna from each core, with notes on the age and correlation, is as follows:-

Core No.2, 90-96 feet. Hard, white foraminiferal limestone.

Discocyclina cf. dispana (Sowerby) and var. minor Rutten.
Operculinoides sp.
Bryozoa.

The age of this fauna is Middle to Upper Eocene ("a" to "b" stages), and the core is considered to be from the Giralia Calcarenite, and not, as suggested by W.A. Petroleum, from the Wadera Calcarenite.

Core No.3, 112-122 feet. Reddish, glauconitic sandy limestone.

Unfossiliferous. As suggested, possibly from the Wadera Calcarenite.

Core No.4, 160-170 feet. Hard, white calcarenite, with Inoceramus.

Anomalina velascoensis Cushman
Planulina voltziana (d'Orbigny)
Bolivinoidea decorata (Jones) australis Edgell
Stensoina sp. nov.
Bulinina proluxa Cushman and Parker
Bolivina incrassata Reuss
Gyroidina sp.

All specimens in this sample are encrusted and poorly preserved, but the species identified are definite Campanian forms characteristic of the Korojon Calcarenite of the Giralia Anticline.

Core No.6, 730-742 feet. Soft, friable grey calcarenite.

Globotruncana marginata (Reuss)
G. ventricosa White
G. lapparenti Brotzen bulloides Vogler
G. lapparenti lapparenti Brotzen
G. lapparenti Brotzen tricarinata (Quereau)
Quenbelina globulosa (Ehrenberg)
Globigerinella aspera (Ehrenberg)
Neoflabellina rugosa (d'Orbigny)
Anomalina rubiginosa Cushman
Osangularia sp.
Verneuilina parri Cushman
Dorothia bulletta (Carsey)
Marssonella oxycona (Reuss)
Spiroplectammina laevis (Roemer) var. cretosa Cushman
Eouvierina aspera (Marsson)
Goesella chapmani Cushman
Bolivinitella eleyi (Cushman)

Core No.7, 742-754 feet. Soft, friable grey calcarenite.

Globotruncana lapparenti lapparenti Brotzen
G. lapparenti Brotzen bulloides Vogler
G. lapparenti Brotzen tricarinata (Quereau)
G. ventricosa White
G. marginata (Reuss)

Guenbelina globulosa (Ehrenberg)
Globigerinella aspera (Ehrenberg)
Neoflabellina rugosa (d'Orbigny)
Dorothia bulletta (Carsey)
Anomalina rubiginosa Cushman
Osangularia sp.
Verneuilina parri Cushman
Ammodiscus cretaceus Cushman
Eouvigerina aspera (Marsson)
Cibicides excavata Brotzen

The species characteristic of the Korojon Calcarenite are absent from these two cores, which contain abundant Globotruncana lapparenti bulloides, and also Goesella chanmani and Osangularia sp; these last two species are known only from the Toolonga Calcarenite and the Gingin Chalk. The fauna of the cores is of Santonian age, and the samples are correlated with the Toolonga Calcarenite of the Murchison River area.

Core No. 9, 1390-1400 feet. Glauconitic silty sandstone.

Unfossiliferous. Probably from the Birdrong Sandstone.

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