

1955/119
e.2

2-11-55
(

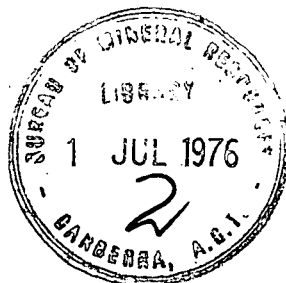
COMMONWEALTH OF AUSTRALIA.

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

RECORDS.

1955/119

BMR PUBLICATIONS COMPACTUS
(NON-LENDING-SECTION)



MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM WARROORA
NO. I. WELL, CARNARVON BASIN, WESTERN AUSTRALIA

BY

D. J. BELFORD

12/5/76

MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM WARROORA

NO. 1 WELL, CARNARVON BASIN, WEST AUSTRALIA.

by

D. J. Belford

Records No. 1955/119

Six samples from this well, covering the interval 50-380 feet, have been forwarded for examination by West Australian Petroleum Pty. Ltd. The fauna found in each sample, with notes on the age, is as follows:-

Sample No. 1,500 feet.

Hard, brown calcilutite.

Globotruncana lapparenti (Brotzen) tricarinata (Quereau)
Planulina voltziana (d'Orbigny)
Anomalina velascoensis Cushman
Stensioina sp.nov.
Gyroldina sp.
Eponides sp.

Sample No. 2,100 feet.

Soft, reddish-brown calcilutite.

Anomalina velascoensis Cushman
Globorotalites micheliniana (d'Orbigny)
Planulina voltziana (d'Orbigny)
P.aff.taylorensis (Carsey)
Gyroldina sp.

Foraminifera are not common in these two samples, and are usually poorly preserved. Sufficient species have been recognised to determine the age as Campanian, and the formation from which they were taken as equivalent to the Korojon Calcarenite.

Sample No. 3,220 feet.

Soft, grey calcilutite.

Globotruncana arca (Cushman)
Globigerinella aspera (Ehrenberg)
Guembelina globulosa (Ehrenberg)
Spiroplectammina grzybowskii Frizzell
Bolivinitella elevi (Cushman)
Marssonella oxycona (Reuss)
Pseudovalvulineria sp.
Neoflabellina cf. reticulata (Reuss)
Planulina voltziana (d'Orbigny)
Bolivina incrassata Reuss
Quadrिमorphina allomorphinoides (Reuss)
Planulina aff. taylorensis
Eovigenerina aspera (Marsson)
Stensioina sp.nov.
Bulimina sp.
Gyroldina sp.

Sample No. 4,230 feet.

Soft, grey calcilutite.

Globotruncana lapparenti lapparenti Brotzen
G.lapparenti Brotzen tricarinata (Quereau)
G.ventricosa White
G.arca (Cushman)
Globigerinella aspera (Ehrenberg)
Guembelina globulosa (Ehrenberg)
Spiroplectammina grzybowskii Frizzell
Bolivinitella elevi (Cushman)
Eovigenerina aspera (Marsson)
Cibicidoides sp.

Anomalina rubiginosa Cushman
Pseudovalvulineria sp
Dorothia bulletta (Carsey)
Lagena hexagona (Williamson)
Stensioina sp.nov.
Planulina aff.taylorensis (Carsey)
Gryoidina sp.

These two samples contain abundant and well preserved Foraminifera. Several species are characteristic of the Korojon Calcarenite, and indicate a Campanian age for the samples.

Sample No. 5,300 feet.

Hard, friable grey calcilutite

Globotruncana lapparenti lapparenti Brotzen
G.lapparenti Brotzen tricarinata (Quereau)
G.lapparenti Brotzen bulloides Vogler
G.marginata (Reuss)
G.ventricosa White
Globigerina cretacea d'Orbigny
Globigerinella aspera (Ehrenberg)
Guembelina globulosa (Ehrenberg)
Spiroplectammina grzybowskii Frizzell
Anomalina rubiginosa Cushman
*Bolivinoidea strigillata (Chapman)
*Goesella chapmani Cushman.
*Osangularia sp.
Planulina aff.taylorensis (Carsey)
Fronicularia mucronata Reuss
Bolivinitella eleyi (Cushman)
Euvigerina aspera (Marsson)
Globorotalites micheliniana (d'Orbigny)
Neoflabellina rugosa (d'Orbigny)
Reussella sp.
Marginulina sp.
Verneuilina parri Cushman

Sample No. 6,370-380 feet.

Hard, friable grey calcilutite.

Globotruncana lapparenti Brotzen tricarinata (Quereau)
G.lapparenti Brotzen bulloides Vogler
G.ventricosa White
(G.arca (Cushman))
Guembelina globulosa (Ehrenberg)
Spiroplectammina grzybowskii Frizzell
Verneuilina parri Cushman
Dorothia bulletta (Carsey)
Marssonella oxycona (Reuss)
*Clavulinoides trilaterus (Cushman)
*Bigenerina compressiuscula Chapman
*Osangularia sp.
Euvigerina aspera (Marsson)
(Stensioina sp.nov.)
Bolivinitella eleyi (Cushman)
Pseudovalvulineria sp.
*Anomalinoidea sp.
Eponides sp.

The species from these two samples which are marked with an asterisk are characteristic of the Toolonga Calcilutite and the Gingen Chalk. These two samples are regarded as Santonian in age, and the formation from which they were taken as equivalent to the Toolonga Calcilutite. Among the species from sample 6, the two bracketed are Campanian forms characteristic of the overlying Korojon Calcarenite, and this sample appears to have been slightly contaminated.

It is to be noted that as the Toolonga Calcilutite now includes the formation previously known as the Second Gully

Calcilutite, it ranges in age from the Santonian to the Campanian. The upper part of the re-defined Formation, of Campanian age, (the previous Second Gully Calcilutite) is equivalent to the Kerojon Calcarenite; the lower part, of Santonian age, has no equivalent in the Giralia Anticline, but may be correlated with the Gingin Chalk.