

An examination and interpretation of megafossil fragments and
microfossils from cuttings of the Conoco Inc. Gwydyr Bay State
No. 2 well

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CONOCO GWYDER BAY STATE #2
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INTRODUCTION

Composite 90' cuttings samples were examined through the interval 80-11,365'.

RESULTS

Depth
80'-620'

Age: Indeterminate

Paleoenvironment: Indeterminate.

Remarks: This interval is barren of microfossils.

620'-1,070'

Age: Pliocene/Pleistocene.

Paleoenvironment: Probably inner neritic to transitional.

Remarks: the faunal assemblage consists of Buccella frigida, Pullenia aff. P. bulloides, Elphidiella brunnescens and Cibicides sp.

1,070'-1,160'

Age: Possibly Oligocene.

Paleoenvironment: Probably inner neritic.

Remarks: The faunal assemblage consists of Cibicides perlucidus, Elphidiella brunnescens and Cibicides sp.

1,169'-6,380'

Age: Indeterminate

Paleoenvironment: Possibly transitional to non-marine.

Remarks: the samples in this interval are barren of microfossils, but contain abundant plant fragments, and coal fragments.

6,380'-8,020'

Age: Late Cretaceous.

Paleoenvironment: Probably inner neritic possibly middle neritic/bathyal.

Remarks: The faunal assemblage consists of Saccamina lathrami, Haplophragmoides rota, Haplophragmoides sp., Haplophragmoides excavata, Caucasina vitrea, Anomalinoidea penguinis, Verneuilinoidea bearpawensis, Bathysiphon vitta, Bathysiphon varans and T. albertensis.

8,020'-8,470'

Age: Campanian/Turonian.

Paleoenvironment: Probably bathyal.

Remarks: The faunal assemblage consists of Dictyomitra multicosata, Spongodiscus sp. Cenosphaera sp., and foraminiferids which are probably caved; H. rota, Bathysiphon vitta, B. varans and H. bonanzaensis.

8,570'-8,990'

Age: Indeterminate.

Paleoenvironment: Possibly marine.

Remarks: Rare occurrences of Spongodiscus sp. and Cenosphaera sp. (probably caved) persist. There is an abundant influx of Inoceramus prisms in this interval. The lithology in this interval is dark grey to black paper shale.

9,020'-9,080'

Age: Indeterminate.

Paleoenvironment: Probably marine.

Remarks: Rare occurrences of non-diagnostic foraminiferids have been analyzed in this interval.

9,080'-9,440'

Age: Aptian/Barremian.

Paleoenvironment: Probably middle to outer neritic.

Remarks: The faunal assemblage consists of Gaudryina tailleuri, Glomospira subarctica, Bathysiphon scintillata, Haplophragmoides duoflatis, Glomospirilla arctica, Lenticulina muensteri, Pseudobolivina rayi, and Bathysiphon granulocoelia.

9,470'-10,010

Age: Valanginian/Berriasian.

Paleoenvironment: Probably inner to outer neritic.

Remarks: The faunal assemblage consists of G. milleri, Haplophragmoides goodenoughensis, Haplophragmoides inflatigrandis, Lituotuba gallupi, G. leffingwelli, Globulina prisca, Marginulina planiuscula, Marginulinopsis collinsi, Ammobaculites cf. A. alaskensis.

10,010'-10,430'

Age: Possibly late Jurassic.

Paleoenvironment: Marine, shelf.

Remarks: The faunal assemblage consists of Lenticulina audax, Ammobaculites vetusta, Reophax metensis, Globulina topagorukensis, Haplophragmoides canui, Ammobaculites alaskenses.

10,430' -11,000'

Age: Possibly Oxfordian Callovian

Paleoenvironment: Marine inner to outer neritic.

Remarks: The faunal assemblage consists of Ammodiscus siliceus, HAP spp., Eoguttulina metensis, Marginolopsis phragmites and Tasmanites.

11,000' -11,365'

Age: Indeterminate.

Paleoenvironment: Indeterminate.

Remarks: No new fauna is observed in this interval.

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