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STRATIGRAPHY BRANCH

THE BIOSTRATIGRAPHY OF THE WELL GBO-1, OFFSHORE GUINEA BISSAU

by

J. Athersuch, F.T. Banner, J.A. Crux, E.M. Finch

M.A. Partington and S.J. Sturrock

Co-ordinated by M.A. Partington

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1. INTRODUCTION

The S.N.E.A. (P) operated well GBO-1, offshore Guinea Bissau was drilled between May and August 1984 with the objective of exploring the hydrocarbon potential of sands developed within sediments of Cenomanian-Albian age. Secondary targets included a possible "high energy facies" developed within the massive Aptian-Neocomian limestones and thin sands developed at the top of the Maastrichtian sequence. S.N.E.A (P) considered the Turonian-Cenomanian bituminous shales and marls possible source rocks.

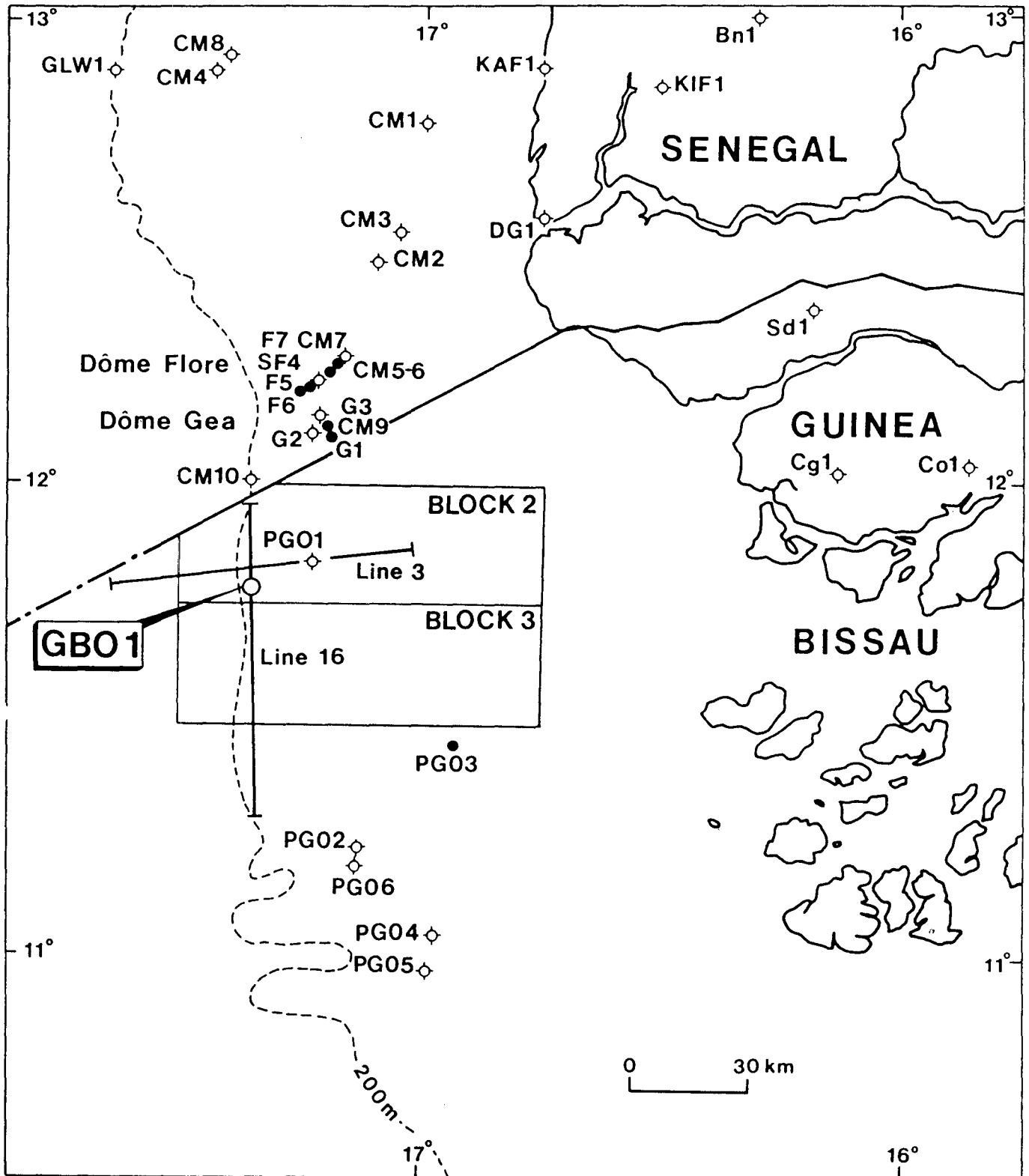
The purpose of this investigation was to substantiate and if possible, with the aid of nannofossil analyses, refine the biostratigraphy of this well. Integrated palynofacies analyses and organic geochemistry were also used to precisely define the age and quality of any other possible source rock horizons in this area.

One hundred and fifty four ditch cuttings samples were palaeontologically examined from the well GBO-1. Ninety nine were examined for their nannoflora (J.A.C. and E.M.F) one hundred and ten for their microfauna (J.A., and S.J.S.) and sixty five for combined palynofloral and palynofacies analyses (M.A.P.).

The location of the well GBO-1 is shown in Figures 1 and 2. All palaeontological results are graphically summarised in the form of an integrated summary log in Enclosure 1.

The biostratigraphy and biozonation schemes referred to in this report (Appendix 2) are those of Blow 1979, Robaszynski and Caron, 1979 and Robaszynski *et al.*, 1984 for planktonic foraminifera and Martini 1971 and Crux *et al.*, 1984, for nannofossils. A generalised classification of the environments discussed in this study is provided in Appendix 3.

LOCATION MAP



[Fig. 2]