

*Geological Society of Malaysia – Petroleum Geology Seminar 1989*

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## **PALAEOENVIRONMENTS OF THE LOWER MIOCENE TO PLIOCENE SEDIMENTS IN OFFSHORE NW SABAH AREA**

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A biostratigraphic reinvestigation of 108 SSPC and competitor wells was undertaken in order to review the palaeoenvironments of the Lower Miocene to Pliocene deposits in the offshore NW Sabah area.

The study was integrated with seismostratigraphic data, which defined the positions of the palaeoshelf edge/palaeocoastline, and allowed for more detailed palaeoenvironmental reconstructions. For each stratigraphic interval, palaeoenvironment maps showing the areal distribution of depositional environments, sand percentages and source rock potential were constructed. In addition detailed biostratigraphic/seismostratigraphic correlation enabled the recognition of four “seismic facies” (base of slope, slope, shallow marine-coastal and coastal plain). Integration with geochemical results allows the characterisation of the palaeoenvironments/seismic facies in terms of their source rock potential.

The study has provided a much better understanding of the depositional history of the offshore NW Sabah area and will assist in assessing the reservoir potential of undrilled prospects in Block SB 1.