

Depositional Environments of the J Sandstone, Southeastern Part of the Malay Basin, Offshore West Malaysia.

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The J Sandstone is an important hydrocarbon bearing reservoir in the Malay Basin. The Lower and Upper Member of the J consist of a variety of shoreface and offshore sediments. Shoreface facies comprise upper, middle and lower shoreface whilst offshore facies are made up of offshore shales/siltstones, offshore bars and offshore sheet sands. Shoreface progradation and vertical stacking of associated offshore bars occurred during deposition of the Lower and Upper J. Evidence indicate that storm processes may have been responsible for the deposition of these stacked offshore bars.

Progradation terminated in the Upper J as a result of rapid submergence of the shorezone by the Miocene transgression. Storm events occurring within this transgression resulted in the formation of offshore sheet sandstones.
