

(2) Summary of Regional Geology

Throughout much of the Bass Basin, seismic mapping below the main coal sequence is difficult and in some places impossible with present technology. The lowest level on which reliable, regional mapping can be attained is within the upper coal measures in the vicinity of the Red and Orange horizons (Hodgson, 1974). In the Nangkero-Poonboon area, these seismic events are close to the boundary of the P. asperopolus and upper M. diversus palynological zones (lower Eocene).

The regional configuration of the Red horizon in the Bass Basin defines a north west to south east trending deep basin with Nangkero on its north eastern side. Pelican occupies a similar structural position on the opposite side of the deep basin. The gas/condensate shows in the Pelican 1 and 2 wells occurred in thin individual sands with a succession of interbedded sandstone, siltstone, shale and coal in the M. diversus zone. Nangkero-1 encountered coaly strata of the M. diversus zone but they were devoid of hydrocarbon shows.