

#### 4. Interpretation

##### Horizon B

Horizon B is tied to the base of Wangerrip unconformity at each of the wells, 4501 at Mussel-1, 4055 at Prawn-1, 2412 at Whelk-1 and 2555 at Pecten-1. There is generally little difficulty in picking this horizon, and it can mostly be recognised within a cycle on the records as the base at the zone of good reflections, with foreset bedding and channelling. However, to the west of line HO-24 on line HO-22 it loses its distinctive character and there is no sharp change in record appearance between the Paleocene and Upper Cretaceous section.

Velocity ties at the three wells with velocity surveys (Mussel-1, Prawn-1, Whelk-1) were fair only, and initially, there were a number of misties at line intersections. In part there may result from the relatively shallow event, which uses less than the full cable length, and hence lower multiplicity and partly from the varying wavelet shape of a reflection from an unconformity surface. It is estimated that the probable error of the velocity figures is about  $\pm 200$  ft/sec. so that with the direct application of these figures to the times their variations may have affected the contouring with the 250 foot interval.

Structurally the map shows the expected offshore dip, and is quite similar to previous maps, although no attempt was made to integrate old data.