

to Pelican 3 regions were prominent areas of thinning presumably due to non-deposition on these more stable platforms. A notable ridge located in the Perkins to Cape Barren region bridges these two platforms, quite distinctly separating the Pelican Trough from the Yolla Trough. It appears that only minor accommodation of sediment occurred in the Yolla Trough during the lower *M.diversus* period. The Bass 3 platform extends nearly to the Flinders 1 location and then swings to the southwest. A deeper platform then extends from Flinders through to Hunter. Thins on this platform that might mark old structures occur near Grindstone and Eddystone; near Lead G; and near the Tregaron Lead (refer to Figure 11.1 for locations).

Interestingly, apart from the Pelican Field, all the wells drilled in the block correspond to lower *M.diversus* thicks ie where depositional troughs were located rather than on old highs.

6.4 Middle *M.diversus*

Figure 6.6 (Enclosure 6) "Top Middle *M.diversus*, Time Structure Map (ms TWT)"

Figure 6.7 (Enclosure 7) "Isochron of Middle *M.diversus*"

Figure 11.2 "Top Middle *M.diversus* Leads & Prospects"

Mapped over a similar area to the lower *M.diversus*, the middle *M.diversus* occurs over the time range of 1100 to 2200ms on seismic. Most lower *M.diversus* faults are present at the top of the middle *M.diversus* but with less relief. The top middle *M.diversus* map shows a distinct change in that the Pelican Trough is much less prominent while the Yolla Trough has become very pronounced. This is a reflection of the decreased structural relief of the middle *M.diversus* aged structures which allows the effect of the later basin sag period to be more prominent at the present day. The middle *M.diversus* deposition coincided with a major period of fault growth and early fault reactivation. This corresponds to the onset of fast seafloor spreading in the Southern Ocean (Lowry, 1991). Most fault block geometries were setup during this period and hence most of the possible trapping geometries in T/25P are of this age.