

with Flinders which corresponds to a thickened sequence implying, therefore, that it did not have its sill implaced during the Oligocene. Other thins occur on the Poonboon Platform corresponding with Early Oligocene extrusives.

6.9 Early Miocene Reflector

Figure 6.16 (Enclosure 16) "Early Miocene Reflector, Time Structure Map (ms TWT)"

Figure 6.17 (Enclosure 17) "Isochron from Late Oligocene to Early Miocene"

The Early Miocene Reflector was mapped over a wide area and occurs over a time range of 400 to 1200ms on the seismic data. The structure map of this level is relatively featureless showing a NW-SE deep centred near Poonboon 1 or Nangkero 1. The Flinders-Pipipa area shows as a prominent nose with a smaller version located at Hunter.

The isochron of the Upper Oligocene to Base Miocene, which straddles the base Miocene unconformity is quite uniform showing an east-west trough located south of Pelican Field, north of Hunter and east of Flinders.

The fact that Flinders and Hunter are both thins on this map and observing the nose at Flinders on the structure map, is an indication that the intrusive encountered in the *M.diversus* interval of Flinders has probably been implaced during this period.

6.10 Late Miocene Reflector

Figure 6.18 (Enclosure 18) "Late Miocene Reflector, Time Structure Map (ms TWT)"

Figure 6.19 (Enclosure 19) "Isochron of Early to Late Miocene"

The Late Miocene Reflector was mapped over almost all T/25P and a significant area north of the permit. It varies from 300 to 1000ms on the seismic data in the mapped area. A NW-SE trough dominates this map, the shallowest horizon mapped. This broad feature has been prevalent in all the structure maps above the upper *M.diversus*