

### Isopach: Top Latrobe-Base Delta-Front Facies

This map describes thickness variations of the most sandy interval (delta-plain plus delta-front facies) of the Latrobe Group. Thickness of this interval ranges from 43 meters (Mullet-1) to 704 meters (Golden Beach-1A).

A relatively thin zone trends vaguely north/northeastward across the central portion of the map area, subdividing the central east/southeast-trending thick zone into three subsidiary thick zones.

### Gurnard Sandstone Distribution/Thickness

The map shows two major areas of distribution of glauconitic sandstones of the post-Latrobe Gurnard Formation in the offshore basin.

A northeast-trending elongate zone of Gurnard sandstone occurs between Groper-2 in the southwest to the area of Sweep-1 and Hammerhead-1 in the northeast. A second area lies in the southeastern portion of the map area (Helios-1 and Pisces-1).

Net Gurnard sand thickness ranges from 2 meters (Groper-2) to 30 meters (Gurnard-1) among the subject wells.

Gurnard sandstone is also present in the coastal zone along the northwest portion of the map area. The oil accumulation of Lakes Entrance Field is reservoired in a thin Gurnard sandstone which pinches out in a northwestward direction.

### Depth to Thermal Maturity

The basis for this map is the ten-well geochemical study completed by Gearhart Services Ltd. as part of the Variant Work Program.

Thermal maturity is defined in this study as vitrinite reflectance equal to or greater than 0.45. This value was attained, among the ten subject wells, at depths ranging from 1395 meters (Perch-1) to approximately 2550 meters