

evaluate prospective section, basin configuration and structural-stratigraphic leads. Results show several large elongate anticlinal features. At least one anomaly extends into the shallow water area (less than 600 feet) which covers 175 square miles of the permits (T/2P and T/10P). This feature with a crest line at SP05, Line M280 trends south-southeast and appears to be a basement erosional high with Tertiary (?) rocks resting unconformably above.

A structural ridge on trend with King Island seems to divide the area between the eastern flank of the Otway Basin on the west and a sub-basin of the Bass Basin to the east.

Stratigraphic trap possibilities are present in a pre-Tertiary sedimentary sequence, which unconformably underlies the Tertiary section to west of the forementioned ridge. The overlap of Tertiary beds onto basement and onto pre-Tertiary structures also affords stratigraphic possibilities.

Tertiary sediments range from 1,000 to 5,000 feet in thickness and thin southerly and westerly. Pre-Tertiary rocks decrease from a maximum thickness of 10,000 feet in the north to 6,000 feet in the south in deep water.