

PREVIOUS WORKGEOLOGICAL

Prior to the drilling of Pelican-5 by Amoco, four other wells had been drilled on and in the vicinity of the Pelican structure (see Figure 1). Pelican-1 and -2 were drilled by Esso in 1970, and Pelican-4 was drilled by Hematite Petroleum (B.H.P.) in 1979. All three of these wells were drilled on-structure and encountered encouraging shows of gas and condensate during drilling. Hydrocarbons were recovered by formation interval testing in sandstones of Eocene Age within the Eastern View Coal Measures in these wells. However, no drillstem testing was done. Pelican-3 (drilled by Esso in 1972) was spudded approximately 7 kms. north-northwest of Pelican-2. Minor amounts of gas only were recovered by formation interval testing. In addition to the four Pelican wells, three other wells have been drilled within T/22P. They are: Poonboon-1 (Esso 1972), Narimba-1 (Esso 1973) and Pipipa-1 (Hematite 1982). None of these wells encountered significant hydrocarbons during drilling.

GEOPHYSICAL

Geophysical surveys have been undertaken in the Pelican area of the Bass Basin since 1960, with the most relevant survey being shot in 1977, the HB 77A Seismic Survey, and 1984, the 1984 Amoco Bass Basin Survey (TNK 4 Lines). A number of lines (1010 kms) from the previous surveys, in particular all of the 1977 lines over the Pelican area, were reprocessed to compliment the "Amoco 1984 TNK" survey in which 856 kms of seismic was acquired in T/22P. Prior to drilling the Pelican-5 well, seafloor and high resolution surveys were run to determine the presence of shallow faults and/or gas pockets.

Enclosure 1 shows the structure at Pelican-5 (F' Sand Level) and the dip line TNK 4-87 on which Pelican-5 was drilled. The Pelican feature is a faulted anticline at the Lower Eocene to Lower Paleocene levels within the Eastern View Coal Measures.