

## 9 HYDROCARBON SHOWS AND DISCOVERED HYDROCARBONS

### 9.1 Hydrocarbon Shows

The objective of this section is to identify the type and extent of hydrocarbon shows encountered in the wells of the study area. All 9 wells in T/25P were examined.

The primary data for the T/25P wells pre-1985 were derived from the SAOGC report "Bass Basin Hydrocarbon shows" by AR Waldron (1986). Information for subsequent wells (Pelican 5, Flinders 1) were derived from their respective Well Completion Reports and mudlog data.

### 9.2 Method and Coding Description

Hydrocarbon occurrences with greater than background readings were considered as a "show" and detailed in Appendix 5 on the show description forms.

No oil or gas occurrences were regarded as a 'show' if associated with coal beds. Any exceptions were the result of ambiguities on the mudlog data, and were annotated as such on the description form. Oil staining without associated fluorescence was not regarded as a show. Mineral fluorescence was also not regarded as a show.

### 9.3 Discussion

The results of the hydrocarbon show evaluation indicate that shows are widespread throughout the permit. The following general observations can be made:

- 1) The *M.diversus* and *L.balmei* palynological zones have by far the majority of hydrocarbon shows and recoveries, the best of which were from the Pelican Field wells. The regional prospectivity of this section and the Pelican Trough area should be considered as primary objectives in assessing future drilling in the permit area. Pelican 5 flowed 5.6 MMCFD and 302-441 BCPD.
- 2) The upper-EVCM (*N.asperus*-*P.asperopolus*) encountered hydrocarbons in