

## 7 EASTERN VIEW COAL MEASURES RESERVOIR STUDIES

### 7.1 Objectives

The major objective of this reservoir study was to improve the understanding of reservoir development within the Eastern View Coal Measures within and around T/25P. Good reservoir development is important both in providing commercially producible hydrocarbon reservoirs and to provide conduits for migrating hydrocarbons.

### 7.2 Introduction

Identification and prediction of good quality reservoir development in association with trapping configurations is one of the most difficult aspects of prospectivity evaluation in the Eastern View Coal Measures.

This study reviews previous reservoir studies, addresses some new observations based on measured core porosity and permeability data, and examines the distribution of reservoir trends to determine if any predictive models can be used to evaluate reservoir development in assessing the prospectivity of the permit.

Previous drilling in T/25P, especially in the Pelican Field, has shown that despite having good log and core plug measured porosity many of the sandstones below the top of the middle *M.diversus* zone have relatively poor permeability. This observation was particularly relevant at Pelican 5 where despite encouraging shows of gas and condensate all the zones tested failed to flow at commercial rates.

Drilling results outside of T/25P in the Bass Basin, at Yolla 1, have shown that economical flow rates can be achieved from quite deeply buried (approximately 2800 metres) reservoirs with a good RFT recovery at 2988m.