

At Pipipa the presence of oil shows is anomalous as the measured maturities exceed a vitrinite reflectance value of 2.3% (overmature). The present day geothermal gradient is insufficient to account for the high maturities observed in the well. The most probable explanation for the high observed vitrinite reflectance values is the emplacement of an early Miocene igneous intrusion near the well.

With respect to T91-2, there is no doubt that adequate source rocks are developed in the Pelican Trough and that large scale generation of hydrocarbons has occurred. Results to date suggest that much of the Pelican Trough may be gas/condensate prone, but oil recoveries at Yolla and Cormorant in the Cormorant Trough and the presence of encouraging oil shows in Pipipa 1 demonstrate that oil has also been generated.