

SA Branch

Birkhead-Hutton(!) Petroleum System Of The Gidgealpa Area

By Peter Boulton, University of South Australia

Biography

Peter Boulton is a lecturer at the University of South Australia. He has recently completed a part time PhD (except for a few corrections) entitled 'An investigation of reservoir / seal couplets in the Eromanga Basin; implications for petroleum entrapment and production. Development of secondary migration and seal potential theory and investigation techniques'.

Before joining the University he worked as a wellsite geologist in the Middle East, North Africa, the North Sea and onshore in the UK. While completing his PhD he has been consulting for AUSTIN OIL, CONOCO, SANTOS and BORAL on top and fault seal analysis in Papua New Guinea and the Otway Basin, SA. Peter is also a member of the PESA SA Branch Committee.

Abstract

This talk outlines a new model for a petroleum system in the Jurassic of the Eromanga Basin. New models are presented for; (1) the deposition of source rocks which have demonstrated the ability to generate very large volumes of oil; (2) migration pathways which allow for efficient long range lateral migration; and (3) entrapment which explains the common occurrence of palaeo-oil columns beneath the Birkhead Formation.