

GWF9107.009-RJS

MATURITY: The oil window (vitrinite reflectance 0.7%) was intersected at approximately 3050m. The maximum recorded mean vitrinite reflectance of 0.9% occurs at total depth, however, there is a large variation in the results at this depth with values ranging from 0.70 - 0.95% from individual samples.

SOURCE ROCK: Only three samples were analysed from Poonboon 1, all for total organic carbon only. Two coals at 3040.3 and 2473.1m yielded 27.6% and 63.1% TOC respectively, whilst a shale at 2687.7m yielded 1.93% TOC.

POST MORTEM: Poonboon 1 established that good quality reservoirs can be preserved at depth within the Eastern View Coal Measures and within the abnormally pressured zone.

The absence of hydrocarbons in the well other than in the interval 3183.3 - 3185.2m is not fully understood. The well location was based on sparse seismic data and to this day is still not well defined. Indications are that the well may not be crestal on the broad anticlinal dome.

Limited possibilities exist for vertical migration due to the small number of faults in the area, therefore lateral migration would be needed to develop an accumulation. It is probably that reservoir rocks intersected may not have had access to a mature drainage area. Although the structure does appear to drape over a pre cursor Cretaceous culmination the closure may have developed, quite late, as a result of the Miocene compressional event and, hence, may post date hydrocarbon migration.