



SEAPEX Exploration Conference 2007
Orchard Hotel, Singapore
24th – 26th April 2007

Day: Thursday 26th April
Session: Australasia & New Zealand Session
Time: 1000 – 1030 hrs

The Geology and Hydrocarbon Prospectivity Offshore Timor Leste South - a Review Based on the 2005 Non - Exclusive Seismic Survey

Anders Finstad
GGs

The 2005 non exclusive seismic survey shot by GGS/BGP has given important information about the geological setting of the Timor Through. On the Australian (South) side of the through, mapping has revealed numerous potentially hydrocarbon-bearing structures. Some of these show encouraging AVO effects in the top Plover reservoir sections. Other interesting observations include evidence of crustal shortening expressed in compressional structures. Such compression, may have reactivated normal faults, and may play a role in reservoir fault - seal. In the area to the North of the through, the Mesozoic has generally been thought to be buried (underplated) deeply beneath a young thrust molasse section. Seismic investigation, including iso-interval-velocity gridding, suggests that the Mesozoic strata also can be positioned at more shallow levels. This could represent a high-risk/high-reward play, especially due excellent seal conditions, and also the fact that deeper burial of the source gives better conditions for maturity than that seen to the South of the Timor through.