

PROSPECT DATA SHEET

POONBOON NORTH

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|-------------------------------|---|------------------------|--|
| CATEGORY | Weak lead | | |
| LOCATION | Seismic line TQH5-97 Sp 230 (middle <i>M.diversus</i>) | | |
| DESCRIPTION OF TRAP | Low relief anticline | | |
| PRIMARY OBJECTIVES | EVCM - Middle <i>M.diversus</i> | | |
| MAXIMUM CLOSURE | EVCM - Middle <i>M.diversus</i> | 10.5 square kilometres | |
| SECONDARY OBJECTIVES | None | | |
| DEPTH TO TOP RESERVOIR | EVCM - Middle <i>M.diversus</i> | 2525 mSS | |

DESCRIPTION OF RISK ELEMENTS

SOURCE

Poonboon North is located on the Poonboon Platform and is dependent on the so far unproven source potential of this structural province. However maturity modelling predicts that at the middle *M.diversus* and Palaeocene the sequence will be mid-mature for oil generation grading to the gas mature at basement. Vertical migration of hydrocarbons from source rocks below the lead is considered to be high risk as there is relatively little faulting associated with the structure to provide migration conduits to potential reservoirs. Gas charge to the lead is ranked as high risk whilst oil charge is more likely with moderate risk.

RESERVOIR

Reservoir development on the Poonboon Platform is predicted to be better than that in the Pelican Trough. Regional porosity gradients from the Pelican Trough predict that the middle *M.diversus* will have an average porosity of 22%. For the reasons described above this should be considered a low estimate. Reservoir risk at Poonboon North is therefore considered to be low.

SEAL

The structure is dependent on well developed intraformational top sealing units in the middle *M.diversus*. Sealing risk is ranked as low.