

## PROSPECT DATA SHEET

## PERKINS

<b>CATEGORY</b>	Lead
<b>LOCATION</b>	Seismic line TNK-65 Sp 290 (middle <i>M.diversus</i> )
<b>DESCRIPTION OF TRAP</b>	Tilted fault block with closure mapped against a northwest trending fault.
<b>PRIMARY OBJECTIVES</b>	EVCM - Middle <i>M.diversus</i>
<b>MAXIMUM CLOSURE</b>	EVCM - Middle <i>M.diversus</i> 15.3 square kilometres (twin closures are present, the northern one is completely in T/18P). A larger closure of 30.9 square kilometres including Cape Barren is possible.
<b>SECONDARY OBJECTIVES</b>	None
<b>DEPTH TO TOP RESERVOIR</b>	EVCM - middle <i>M.diversus</i> mSS

## DESCRIPTION OF RISK ELEMENTS

## SOURCE

Perkins is located adjacent to the proven source kitchen for the gas and condensate reserves of the Pelican Field and is ideally located to receive charge from vertically migrating hydrocarbons. At Perkins the middle *M.diversus* is early to middle mature for oil generation increasing to mid mature at the top Palaeocene and to late gas to overmature generation at basement. Gas source risk for Perkins is rated as low, whilst oil is rated as moderate risk.

## RESERVOIR

Regional porosity verses depth gradients suggest that the middle *M.diversus* will have an average porosity of 22%. Reservoir risk is rated moderate.

## SEAL

All closure is dependent on fault plane sealing. Top seals are anticipated to be intraformational. Sealing risk is moderate.

## STRUCTURE

Structural closure is poorly defined by a regional seismic grid. Structural closure may have been formed by deep, possibly Miocene aged intrusives, similar to those near total depth at Tarook 1. Structural risk is moderate.