

## PROSPECT DATA SHEET

## WARREGO

<b>CATEGORY</b>	Lead		
<b>LOCATION</b>	Seismic line TNK4-97 Sp 410 (middle <i>M.diversus</i> ) Seismic line TNK4-97 Sp 420 (Palaeocene)		
<b>DESCRIPTION OF TRAP</b>	Complex tilted fault block		
<b>PRIMARY OBJECTIVES</b>	EVCM - Middle <i>M.diversus</i> Palaeocene		
<b>MAXIMUM CLOSURE</b>	EVCM - Middle <i>M.diversus</i> Palaeocene	28.9 square kilometres 13.8 square kilometres	
<b>SECONDARY OBJECTIVES</b>	None		
<b>DEPTH TO TOP RESERVOIR</b>	EVCM - Middle <i>M.diversus</i> Palaeocene	2233 mSS 2397 mSS	

## DESCRIPTION OF RISK ELEMENTS

## SOURCE

Warrego is located at the southern end of the Pelican 3 high, at the south western end of the Poonboon Platform, and updip of the Actaeon lead. For this reason the prospect is dependent on sourcing either from spillage from Actaeon, vertical migration up faults, or from migration from probable but unproven mature areas to the northeast of the lead. At Warrego the middle *M.diversus* is early-mature for oil generation grading to early-middle mature at the Palaeocene and is in the late gas generation window at basement. Source risk for gas at Warrego is rated as low to moderate whilst oil charge is ranked as moderate.

## RESERVOIR

At Warrego a similar stratigraphic sequence is predicted to that encountered in Pelican 3, that is a condensed Eocene sedimentary section overlying the Palaeocene. Therefore the middle *M.diversus* objective will be thin, but this will be partly compensated for by good reservoir preservation with average porosity of at least 25%. Similarly the Palaeocene has not been buried as deeply as in the Pelican Trough and average porosities of approximately 25% are predicted. With the exception of Pelican 3 to the north, well control is poor and there is scope for significant facies variations to occur at Warrego. For example Baillie *et al* (1991) postulated that upper delta plain stacked point-bar sequences might provide better reservoir targets in this southern part of the basin. Reservoir quality and distribution at Warrego is therefore considered low to moderate risk in the middle *M.diversus* and moderate risk in the Palaeocene.