

PROSPECT DATA SHEET

TOURVILLE

CATEGORY	Strong Lead		
LOCATION	Seismic line SB94A-145 Sp 340 (Middle <i>M.diversus</i>) Seismic line TNK4-79 Sp 295 (Palaeocene)		
DESCRIPTION OF TRAP	Anticlinal closure exits at top EVCM and upper <i>M.diversus</i> , whilst the structure is predominantly fault controlled at deeper levels.		
PRIMARY OBJECTIVES	EVCM	-	Middle <i>M.diversus</i> Palaeocene
MAXIMUM CLOSURE	EVCM	-	Upper <i>M.diversus</i> 24.0 square kilometres Middle <i>M.diversus</i> 24.86 square kilometres Palaeocene 13.0 square kilometres
SECONDARY OBJECTIVES	EVCM	-	top of formation upper <i>M.diversus</i>
DEPTH TO RESERVOIR	EVCM	-	Upper <i>M.diversus</i> 2199 mSS Middle <i>M.diversus</i> 2270 mSS Palaeocene 2608 mSS

DESCRIPTION OF RISK ELEMENTS**SOURCE**

Tourville at the middle *M.diversus* and Palaeocene levels is located on the first fault terrace stepping down from the Pelican 3 high and therefore has direct access to proven mature source rocks in the Pelican Trough. Maturity modelling predicts that the middle *M.diversus* sequence is early-middle mature for oil generation grading to middle mature at the Palaeocene and increasing to gas maturity at basement.

Tourville has the potential for cross-fault face loading of the Palaeocene reservoirs by mature upper Cretaceous source rocks. Similarly the middle *M.diversus* reservoirs could be charged across the fault from mature Palaeocene source intervals.

Migration of hydrocarbons into the upper EVCM and upper *M.diversus* reservoirs is considered high risk due to the difficulty in migrating vertically through the shaly sequences of the lower and middle *M.diversus*, therefore these targets are only carried as secondary objectives. Sourcing of gas to the primary objectives at Tourville is considered low risk, whilst oil is ranked as moderate risk.

RESERVOIR

Regional porosity versus depth profiles predict the upper *M.diversus* reservoirs will have average porosities of 25% declining to 21% at the middle *M.diversus* and 18% at the Palaeocene. There is therefore a good chance of developing reservoir quality sandstones with