

PROSPECT DATA SHEET

PERON

CATEGORY	Lead		
LOCATION	Seismic line TQH5-61 Sp 670 (middle <i>M.diversus</i>) Seismic line TQH5-54-1 Sp 1295 (Palaeocene)		
DESCRIPTION OF TRAP	Anticlinal closure occurs at the middle <i>M.diversus</i> and twin tilted fault dependent closures mapped against a northwest trending fault occur at the Palaeocene.		
PRIMARY OBJECTIVES	EVCM - Middle <i>M.diversus</i> - Palaeocene		
MAXIMUM CLOSURE	EVCM - Middle <i>M.diversus</i>	4.6 square kilometres	
	Palaeocene	1.6 and 6.9 square kilometres	
SECONDARY OBJECTIVES	None		
DEPTH TO TOP RESERVOIR	EVCM - Middle <i>M.diversus</i>	2560 mSS	
	Palaeocene	3086 and 3231 mSS	

DESCRIPTION OF RISK ELEMENTS

SOURCE

Peron is located over the northwestern end of 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 Peron the middle *M.diversus* is middle mature for oil generation increasing to mid-late mature at the top Palaeocene and to overmature at basement. Source risk for gas is evaluated as low whilst oil risk is moderate.

RESERVOIR

Average porosity in the middle *M.diversus* is predicted to be 22% declining to 14% in the Palaeocene. Reservoir development in the middle *M.diversus* is therefore considered to be moderate to high risk whilst because of depth of burial and the probability of poor permeability the Palaeocene at Peron is considered to be moderate to high to high risk.

SEAL

Intraformational top seals are required for the middle *M.diversus* trap. Whilst the Palaeocene requires sealing both by intraformational top seals and fault plane seals. Sealing is rated as moderate risk for the middle *M.diversus* and low to moderate risk for the Palaeocene.