

PROSPECT DATA SHEET

ACTAEON

CATEGORY	Lead
LOCATION	Seismic line TNK4-97 Sp 320 (middle <i>M.diversus</i>) Seismic line TNK4-89 Sp 260 (Palaeocene)
DESCRIPTION OF TRAP	Tilted fault block against complex northwesterly and easterly trending fault system.
PRIMARY OBJECTIVES	EVCM - Middle <i>M.diversus</i> - Palaeocene
MAXIMUM CLOSURE	EVCM - Middle <i>M.diversus</i> 24.0 square kilometres - Palaeocene 11.8 square kilometres (55.8 square kilometres with Tourville)
SECONDARY OBJECTIVES	None
DEPTH TO TOP RESERVOIR	EVCM - Middle <i>M.diversus</i> 2430 mSS - Palaeocene 2886 mSS

DESCRIPTION OF RISK ELEMENTS

SOURCE

Actaeon overlies the proven gas-condensate source kitchen of the Pelican Trough. At the location the middle *M.diversus* is predicted to be early mature to mid mature for oil generation, whilst the Palaeocene is mid mature for oil generation through to late mature for gas at basement.

Migration of hydrocarbons into Actaeon is most likely from vertical migration from mature source rocks up fault conduits or from short distance migration from mature source material downdip, particularly from areas along strike to the northwest and southeast of the prospect. Actaeon also provides an opportunity to test the possibility of face loading by Early to Late Cretaceous source rocks underlying the extension of the Pelican 3 high directly into reservoir units of the Palaeocene and middle *M.diversus*. The source risk at Actaeon for gas is considered to be low and for oil moderate.