

fluorescence white, very fine to medium grained, moderately sorted, silty matrix and poorly cemented. It is characterised by an unusually high gamma response on logs, but good porosity (Hunt Raymer average porosity 20.2%), and good permeability, (mud cake build up), are inferred from wireline logs.

Palynological dating of the Pipipa 1 sequence below 1750m KB was impossible due to destruction of the palynomorphs by a high heat flow event (probably caused by a nearby intrusive) evidenced by high vitrinite reflectance values (up to 2.29%).

The Pelican Field approximately 15km to the NE of Flinders 1 in the deepest part of the Pelican Trough intersect the reservoir target of the lower *M.diversus* to middle *M.diversus*. At this level the Pelican Field wells demonstrate the presence of a large gas condensate accumulation in a series of fluvial sandstone beds. At Pelican 5, which is approximately 500m down dip of Flinders 1, deliverability was poor to moderate. The best result was from DST 6 which flowed gas to surface at 5.6 MMCFD with 302-441 BCPD and 662-705 BWPD, the water probably originating from a deeper sandstone via leakage behind casing. The other field wells, Pelican 1, 2 and 4 were only evaluated by FIT.

#### 4.4 Drilling Rationale

Flinders 1 located on seismic line TNK4-79 at SP900 (Figure 4) tested a new structural trend updip of the Pelican Field. The prospect was associated with an amplitude anomaly (Proposal to Drill: Flinders 1 June 1992 SAGASCO Resources Limited). The primary objectives were the fluvial sandstones of the lower *M.diversus* to middle *M.diversus* (Pelican Zone) Eastern View Coal Measures.

The prognosed versus actual stratigraphic sequence in Flinders 1 is tabulated below.

### PROGNOSSED VERSUS ACTUAL STRATIGRAPHIC SEQUENCE

#### FLINDERS 1

FORMATION	SUBSEA DEPTH (m)			THICKNESS (m)	
	Actual	Prognosed		Actual	Prognosed
Torquay Group	69.25	70	0.75mH	3345	1350
Demons Bluff Formation	1414.2	1420	5.8mH	109.5	110
Eastern View Coal Measures	1523.7	1530	6.3mH	> 1175	> 1170
(Middle <i>M.diversus</i> )	indeterminate	2120	-	-	(500)
( <i>L.balmei</i> )	2415.7	2620	204.3mH	> 285	(> 80)
Total Depth	2700	2700	0m		