

Depth (m)	Tentative Origin of Oil
2169-2178	1
2322-2331	1, 3
2592-2601	1, 2, 3
2745-2754	1, 3
2937*	1
2961-2970	1
3474-3483	1
3717-3726	1
3789-3798	1
3933-3942	1
4032-4041	4
4104-4113	1
4185-4194	1

- 1 Formed in situ (at least partially)
 2 Migrated into present position
 3 Contaminant associated with gilsonite
 4 Occurs in ?caved cuttings

5. CONCLUSIONS

1. The vitrinite reflectance data indicates that the sediments from Pelican-5 are sufficiently mature for the generation of:

- light naphthenic oil from resinite rich organic matter below 1350 metres depth.
- significant quantities of gas from vitrinite (and to a lesser extent inertinite) rich organic matter below 2400 metres depth.
- oil from exinite rich organic matter rich in exinites other than resinite, below \approx 2800 metres depth.

Overmature sediments (VR > 1.4%) occur below approximately 4050 metres depth in Pelican-5.

2. Organic richness of the Eastern View Coal Measures in Pelican-5 is generally excellent due to the presence of high proportions of coal in most samples. This high organic richness, although fairly typical of the Eastern View Coal Measures in the Bass Basin, is significantly higher than in other Bass Basin wells previously examined (Yolla-1, Tilana-1, Koorkah-1).

The Cretaceous sediments intersected in Pelican-5 have fair to good organic richness. Coals present in these samples have probably caved from the Eastern View Coal Measures. The good organic richness of these sediments is attributable organic rich shales and Carbonaceous shale.