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Appendix 6

Palynology

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Several samples from cores were prepared and examined for microflora, the results are indicated below.

Core 30(1643.6 m to 1647.9 m).

Spores: Clavifera triplex Bolkhovitna
Cyathidites australis Couper
C.minor Couper

Pollen: Dacrydiumites florinii Cookson and Pike
Dilwynites granulatus Harris
Malvacipollis diversus Harris
Nothofagidites sp.
Podocarpidites cf. ellipticus Cookson
Proteacidites adenanthoides Cookson
P.dilwynensis Harris
P.incurvatus Cookson
P.parvus Cookson
P.subscabratus Couper
Triorites harrisii Couper

Microplankton: Microplankton sp.

Remanie: Nuskiosporites sp.

The sample from 1645 m contains Malvacipollis diversus together with Proteacidites dilwynensis, P.incurvatus and Dilwynites granulatus indicate that the microflora belong to the Malvacipollis diversus Zone of Stover and Evans(1973). The microflora are of Lower Eocene age.

Core 32(1826.5 m to 1828.4 m).

Spores: Baculatisporites comaumensis Cookson
Clavifera triplex Bolkhovitna
Gleicheniidites spp.
Regulatisporites mallatus Stover

Pollen: Dilwynites granulatus Harris
Japotaceodae cf. rotundus
Malvacipollis diversus Harris
Microachryidites antarcticus Cookson
Nothofagidites sp.
Proteacidites crassus Cookson
P.incurvatus Cookson
P.parvus Cookson
P. cf. rectomarginis
P.subscabratus Couper
Tricolporites spp
Triorites harrisii Couper
Triporopollenites ambiguus Stover

Core 32 continued.

Microplankton: Deflandrea sp.

Remanie: Leptolepidites verrucosus

The sample from 1827 m contains Malvacipollis diversus along with Dilwynites granulatus, Tripoporollenites ambiguus, Triorites harrisii and Proteacidites incurvatus which collectively suggest that the assemblage falls within the Malvacipollis diversus Zone of Stover and Evans (1973) and is of Lower Eocene age.

Core 33 (1833.9 m to 1838.4 m).

Spores: Camazonosporites bullatus Harris
Clavifera triplex Bolkhovitna
Cyathidites australis Couper
C. minor Couper
Gleicheniidites spp.
Laevigatosporites ovatus Wilson and Webster
Rugulatisporites mallatus Stover
Vitreisporites pallidus

Pollen: Araucariacites australis Cookson
Cingutrilites clavus
Dacrydiumites florinii Cookson and Pike
Dilwynites granulatus Harris
Malvacipollis diversus Harris
Microachryidites antarcticus Cookson
Podocarpidites cf. ellipticus
Proteacidites subscabratus Couper
Tricolpites gillii Cookson
Tricolporites spp.
Triorites harrisii Couper

The sample from 1835 m contains Malvacipollis diversus along with Dilwynites granulatus, Triorites Harrisii and Regulatisporites mallatus which together suggest that the sample falls within the Malvacipollis diversus Zone of Stover and Evans (1973) and is of Lower Eocene age.