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Core samples taken from seven wells sunk by Woodside and partners in the Gippsland Basin yielded microfloras (see Tables 1 and 2) that provide a basis for correlation of the well sequences, both with each other and with sequences from elsewhere in the Gippsland Basin. The wells and the intervals investigated comprise: Carrs Creek No.1 between 4522 and 5507 feet; North Seaspray No.1 between 3484 and 3771 feet; Duck Bay No.1 between 2831 and 3896 feet; Seaspray No.1 between 4872 and 5556 feet; Lake Reeve No.1 between 6080 and 6635 feet; Bellbird No.1 between 995 and 2245 feet; and Woodside South No.1 between 3279 and 5816 feet. The majority of the samples yielded identifiable spores and pollen grains, but the concentration and preservation of the plant microfossils ranged from good in some samples to poor in others. As outlined below the microfloras obtained from the sediments investigated conform with Lower Permian, Lower Cretaceous, and Lower Tertiary microfloral assemblages that have been described from Australian deposits by Balme (1964), Dettmann (1963), and Harris (1965).

→ Carrs Creek No.1 well

The samples from 5500-07 feet and 5360-80 feet yielded poor concentrations of poorly preserved spores and pollen. Species present in the lower samples include Cicatricosisporites australiensis (Cookson) and Aequitriradites spinulosus (Cookson & Dettmann) which indicate a Cretaceous age.

The uppermost sample examined (4522-32 feet) yielded a more diverse microflora in which Dictyotosporites speciosus Cookson & Dettmann is a component. This species indicates the presence of the Speciosus Assemblage that is Valanginian-Aptian in age (Dettmann 1963). The Speciosus Assemblage

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Seaspray No.1	Duck Bay No.1	North Seaspray No.1	Carrs Creek No.1	
c.3 5536-56'	c.6 3699-709'	c.6 3765-71'	c.8 5500-07'	
c.2 4872-85'	c.7 3680-96'	c.5 5484-504'	c.6 5360-80'	
c.4 4522-52'				
				Punctatisporites gretensis
				Calamospora diversiformis
				Leiotriletes directus
				Acanthotriletes ramosus
				Cirratriradites splendens
				Laevigatosporites vulgaris
				Nuskoisporites gondwanensis
				Nuskoisporites rotatus
				Vestigisporites rudis
				Aequitriradites spinulosus
				Dictyotosporites speciosus
				Cicatricosisporites australiensis
				Cooksonites variabilis
				Leptolepidites verrucatus
				Klukisporites scaberis
				Reticulatisporites pudens
				Foraminisporis wonthaggiensis
				Foraminisporis asymmetricus
				Rouseisporites reticulatus
				Crybelosporites striatus
				Coptospora paradoxa
				Laevigatosporites ovatus
				Trilites tuberculiformis
				Cyathidites splendens
				Verrucatosporites speciosus
				Dacrydiumites ellipticus
				Phyllocladidites mawsonii
				Nothofagidites emarcida
				Proteacidites subscabratus
				Proteacidites adenanthoides
				Tricolporites microreticulatus
				Tricolpites gillii
				Triorites edwardsii

Table 1. Distribution of selected spores and pollen grains in Carrs Creek No.1, North Seaspray No.1, Duck Bay No.1, and Seaspray No.1 well

+ = species present




Woodside South No.1					Bellbird No.1		Lake Reeve No.1		
c.24	c.23	c.21	c.18	c.14	c.13	c.1	c.3	c.2	
5800-16'	5452-69'	4990-5010'	4332-52'	3489-509'	3279-99'	995-1000'	6620-35'	6080-96'	
									Aequitriradites spinulosus
									Dictyosporites speciosus
									Cicatricosisporites australiensis
									Januasporites spinulosus
									Klukisporites scaberis
									Leptolepidites verrucatus
									Foraminisporis wonthaggiensis
									Foraminisporis dailyi
									Foraminisporis asymmetricus
									Reticulatisporites pudens
									Rouseisporites reticulatus
									Rouseisporites radiatus
									Rouseisporites simplex
									Cyathidites punctatus
									Crybelosporites striatus
									Pilosporites parvispinosus
									Coptospora paradoxa
									Trilobosporites trioreticulosus
									Trilites cf. T. tuberculiformis
									Cicatricosisporites hughesi
									Cicatricosisporites pseudotripartitus
									Laevigatosporites ovatus

Table 2. Distribution of selected spores in Lake Reeve No.1, Bellbird No.1, and Woodside South No.1 wells.

+ = species present

	Colliers Hill No.1	Golden Beach West No.1	Merriman No.1	Salt Lake No.1
Eocene	1860-2905ft.	5076 ft.	not identified in sampled section	not identified in sampled section
Paleocene	not identified in sampled section	not identified in sampled section	not identified in sampled section	3914-4680 ft.
uppermost Cretaceous- lowermost Tertiary	4090 ft.	5415 ft.	not identified in sampled section	24876-5104
<u>Nothofagidites</u>	absent	not identified in sampled section	4705 ft.	absent
<u>T ricolpites</u> <u>Bachyexinus</u>	4159-5250ft.	6380 ft.	? absent	absent
<u>Clavifera triplex</u>	?absent	{ 6848 ft.	{ 5070 ft.	absent
<u>Appendicisporites</u> <u>distocarinatus</u>	5425-5550 ft.			?absent

TABLE 1. Biostratigraphic relationships of sediments in Colliers Hill No.1, Golden Beach West No.1, Merriman No.1, and Salt Lake No.1 wells. Upper Cretaceous spore-pollen zones are those defined by Dettmann and Playford 1969.

Legend:  Latrobe Valley Coal Measures
 Childers Formation
 "Golden Beach Beds"