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By:- David J Taylor.BIOSTRATIGRAPHIC LOG - ST. MARGARETS ISLAND NO. 1.Drilled by: Woodside (Lakes Entrance) Oil Co., in the Gippsland Basin.Casing program: 13 $\frac{1}{2}$ " set at 450; 95/8" set at 2603'.Datum (K. B.) = +11' A. S. L.Cores:- Core 1 (850-870') and Core 2 (1214-1234') contained fauna.

Side wall core at 769', 788', 1810', 1939', 1960', 1964' & 1966' contained fauna.

Cutting: examined at 50' interval down to 4000'. Mud contamination was minimal.

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- 140- 580' Quaternary mollusca and foraminiferal faunas of shallow water aspect, undispersed with brown coal lenses. The faunas and lithologies agree with those described by Hocking (1965) from the Bushy Park beds. Hocking (l. c. p. 2) gives a thickness of 770 feet for these beds in Woodside No. 2 Well.
- 580- 620' No faunas. Probably referable to Bushy Park Beds.
- 620- 830' "Jemmy's Point Fauna". KALIMNAN STAGE = LOWER PLIOCENE. Carbonaceous horizons are reported within this interval and have been noted by Hocking (l. c.) from the Jemmy's Point Formation in other wells.
- 830-1100' UPPER and MIDDLE MIOCENE shallow water fauna assignable to Taylor's (1965) Zonules A to D.
- 1100-1800' MIDDLE and LOWER MIOCENE shallow (shoal) water fauna, including Amphistegina lessonii and Operculina victoriensis. The nature of the fauna does not permit biostratigraphic differentiation.
- 1800-1960' OLIGOCENE - Taylor's Zonule I, fauna, typical of the Lakes Entrance Formation.
- 1960-1990' LOWER OLIGOCENE - Taylor's Zonule J, including the diagnostic planktonic species Globorotalia testarugosa. This fauna represents the initiation of the marine Tertiary transgression in the Woodside area. Hocking (1965, p. 11) reports it from Woodside No. 1 & 2 Wells, though he refers to it as "Faunal Unit 4".

1990-T. D. No new foraminiferal faunas were found, suggesting that there was no marine influence in the section till mid-Tertiary times.

REFERENCES:

- HOCKING, J. B., 1965. Characteristics of the Tertiary Formations of southern and south-eastern Gippsland. Geol. Surv. Vict., Unpubl. rep. 5/1965.
- TAYLOR, D. J., 1965. The mid-Tertiary foraminiferal sequence - Esso Gippsland Shelf No. 1 Well. Appendix in Comm. Petrol. Search Subsidiary Acts Publ. (in press).