



REPORT ON THE PALYNOLOGICAL DATING OF
OTWAY BASIN BORES MOUNTAJUP 4, MURNDAL 1,
PANYYABYR 3 & 5, YATCHAW WEST 2 &
LINLITHGOW 1

BY
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INTRODUCTION

The bores studied are located on the onshore Otway Basin, south-east of Hamilton, Victoria. All samples examined are cuttings with the exception of core material for Yatchow West 2 (201 - 202 m).

Samples were examined at the request of D Stanley of the Basin Studies Section, Victorian Geological Survey.

The zonation schemes used are those of Dettmann and Playford 1969 for the Otway Group sediments and Stover and Partridge 1973 for the Tertiary sediments.

Sample	Depth (m)	spore-pollen Zone
Moutajup 4	15 - 18	Indeterminate
Murndal 1	51 - 54	<u>M. diversus</u> Zone (late Paleocene - Early Eocene)
	105 - 108	"
	156 - 159	<u>C. paradoxa</u> Zone (Middle Albian)
Panyyabyr 3	12 - 15	Upper <u>N. asperus</u> Zone (Late Eocene - Early Oligocene)
Panyyabyr 5	13	Indeterminate
Yatchaw West 2	170 - 180	<u>P. tuberculatus</u> Zone (Early Oligocene - Early Miocene)
"	201 - 202	<u>C. hughesi</u> Subzone (Neocomian - Aptian)
"	222 - 225	<u>D. speciosus</u> Zone Neocomian - Early Albian
Linlithgow 1	100 - 105	Pliocene

BIBLIOGRAPHY

DETMANN, M.E., & PLAYFORD, G., 1969 : Palynology of the Australian Cretaceous - a review; in Stratigraphy and Palaeontology : Essays in Honour of Dorothy Hill (K.S.W. Campbell Ed) A.N.U. Press, Canberra.

STOVER, L.E., & PARTRIDGE, A.D., 1973 : Tertiary & Late Cretaceous Spores & pollen from the Gippsland Basin, Southeastern Australia.
Proc. R. Soc. Vict. Vol 85 Pt 2 : 237 - 286.

Moutajup 4
 Murnal,
 Pangajup 3
 Pangajup 5
 Jekoh West 2
 Humilthysw 1

LL TYPE *	15-16	51-54	105-108	156-159	12-15	13	201-202	222-225	170-180	100-105
ANOMORPHS										
<i>P. vancouverensis</i>										
<i>P. ochesia</i>										
<i>P. citatus</i>										
<i>P. polyoratus</i>										
<i>P. vasicus</i>										
<i>P. densus</i>										
<i>P. velosus</i>										
<i>P. mawsonii</i>										
<i>P. palaeogenicus</i>										
<i>P. nanus</i>										
<i>U. orientatus</i>										
<i>P. microsaccatus</i>										
<i>P. esobalteus</i>										
<i>P. simplex</i>										
<i>P. tumidus</i>										
<i>P. adenanthoides (PRM.)</i>										
<i>P. annulatus</i>										
<i>P. crassus</i>										
<i>P. obscurus</i>										
<i>P. plenius</i>										
<i>P. pseudomoides</i>										
<i>P. recurva</i>										
<i>P. rectoris</i>										
<i>P. reflexus</i>			CF					CF		
<i>P. stipitatus</i>										
<i>P. tenuicinctus</i>					CF					
<i>P. truncatus</i>										
<i>P. tuberculatus</i>										
<i>P. micus</i>										
<i>R. aschatus</i>										
<i>R. minoris</i>										
<i>R. militus</i>										
<i>R. microclaxus</i>										
<i>S. cilirostris</i>										
<i>S. rotundus</i>										
<i>S. oblatum</i>										
<i>S. (Trifunct.) punctatum</i>										
<i>S. angulatum</i>										
<i>T. patulus</i>										
<i>T. halli (C)</i>										
<i>T. rimatus</i>										
<i>T. thomasi</i>										
<i>T. MACINTOSHII</i>										
<i>T. p. canaliculatus</i>										
<i>T. leutos</i>										
<i>T. plumbeolatus</i>										
<i>T. reticulatus</i>										
<i>T. scabratus</i>										
<i>T. sphaerica</i>										
<i>T. magnifica (P)</i>										
<i>T. CAMERONI (C)</i>										
<i>T. amblyus</i>										
<i>T. latus</i>										
<i>T. clavatus</i>										
<i>T. scabratus</i>										
<i>T. antipalica</i>										
<i>V. alpinus</i>										
<i>V. attenuatus</i>										
<i>V. cristatus</i>										
<i>U. longicauda</i>										
<i>R. antarctica</i>										
<i>P. desudans</i>										
<i>P. latrobensis</i>										
<i>G. australis</i>										
<i>G. circumdites</i>										
<i>L. chaensis</i>										
<i>L. balmac</i>										
<i>N. gondwanense</i>										
<i>P. angulatus</i>										
<i>P. reticulobasalis</i>										

* C: core; S: sandvick core; F: cuttings

