



GIPPSLAND BASIN

BIOSTRATIGRAPHIC & PALEOENVIRONMENTAL
DATA PACKAGE N°1
FOR GIPPSLAND BASIN.

FOR
AUSTRALIAN AQUITAINE PETROLEUM PTY. LTD.

20-7-1983.

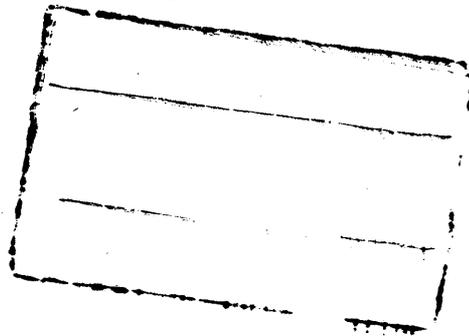
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OIL and GAS DIVISION

BIOSTRATIGRAPHIC & PALEOENVIRONMENTAL
DATA PACKAGE # 1
for
GIPPSLAND BASIN.



for: AUSTRALIAN AQUITAINE PETROLEUM PTY. LTD.

July 20, 1983.

FILED IN GIPPSLAND BASIN REPORTS UNDER
AUSTRALIAN AQUITAINE.

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INTRODUCTION.

This data package details available data on thirteen (13) Gippsland Basin, offshore wells. Additional palynological and foraminiferal studies were conducted on rotary cutting samples from four wells; namely Bullseye # 1, Moray # 1, Perch # 1 and Pike # 1. Micro-floral and micro-faunal lists are included for all samples examined specifically for this project.

An explanatory report is submitted, ^{separately} separately, by Helene Martin on her palynological results, summarised here. David Taylor will contribute further discussion when requested.

INDEX of WELL DATA - PACKAGE # 1.

	<i>H. Martin additional palynology with species lists.</i>	<i>D. Taylor additional micropaleontology with foram lists.</i>	<i>D. Taylor interpretation of records.</i>
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* refer GROPER # 2 sheet (page 8) for Schematic Model of Transgressive Onlap on Western Margin.

¶ Unable to interpret BREAM # 3 because infrequent sidewall cores were penetrated by drilling mud - thus contaminated.

BLUE BONE # 1

Sample* Depth m	ZONE & fossil type	AGE	STRAT-UNIT & FACIES	LITHOLOGY etc.
342.21	F (forams)	EARLY MIOCENE		
----- ?	----- ?	----- ?	----- ?	----- ?
359.9 to 431.8	Non diagnostic			strand line calcarenites
----- ?	----- ?	----- ?	----- ?	----- ?
478.25 & 510.8 to 512.0 (CC) & 516.8	K (forams) or Pre K	LATE EOCENE	? TURRUM FORMATION	qtz glauconitic mudstone

REFER GROPER # 2 sheet for Schematic Model of Transgressive Onlap on Western Margin.

*Sidewall cores unless suffix (CC), indicating conventional core.

FOSSIL TYPE (forams) = planktonic foraminifera

----- ? ----- inadequate information

Data source: Taylor files

Interpreted by: David Taylor,
July, 1983.

BREAM # 4A

(Bream # 3 had heavy mudcake penetration of SWC. Unable to interpret).

Sample Depth m	ZONE & fossil type	AGE	STRAT-UNIT & FACIES	Lithology etc.
1826 to 1836	H-1 (forams)	EARLY MIOCENE	TASMAN SEA	biogenic micrites with oozes
1839 to 1847.3	H-2 (forams)	LATE	CARBONATES	
1850.5 to 1854.5	I-1 (forams)	OLIGOCENE		
1857.0 1859.0	J-2 (forams)	EARLIEST OLIGOCENE	LAKES ENTRANCE MARLS Deep water equivalents.	qtz sandy micrite extreme diagenetic alteration.
1860.0 1861.9 1865.5	K (forams)	LATEST EOCENE	COLQUHOUN FORMATION littoral-intertidal	"greensand"
1869.0 1872.0	N (forams)	MID EOCENE	GURNARD FORMATION	"greensand" oxidised at top
1875.5 to 1885.0	? (forams)	MID EOCENE	ibid	ibid

¶ oxidised "greensand" at 1865.5 contained mixed zone N/K assemblages, indicating exposed surface.

----- apparent conformable contact FOSSIL TYPE (forams) = planktonic foraminifera
 ~~~~~ definite hiatus

Data source: Taylor files

Interpreted by: David Taylor,  
July 1983.

BULLSEYE # 1

| Sample*<br>Depth<br>m                                 | ZONE &<br>fossil type                        | AGE                  | STRAT-UNIT<br>& FACIES                              | LITHOLOGY etc                                     |
|-------------------------------------------------------|----------------------------------------------|----------------------|-----------------------------------------------------|---------------------------------------------------|
| 1891.0<br>1906.2<br>1921.5<br>1936.8                  | H (forams)                                   | EARLY<br>MIOCENE     | GIPPSLAND LST<br>shallow shelf                      | bryozoal calcarenite                              |
| 1952.0<br>1967.3<br>1982.5<br>1997.7                  | I (forams)                                   | LATE<br>OLIGOCENE    | LAKES ENTRANCE<br>MARLS<br>shallow shelf            | calcareous siltsts<br>with qtz, glauc &<br>pyrite |
| 2013.0<br>2028.0<br>2043.5<br>2055.7                  | J-1 (forams)                                 | MID<br>OLIGOCENE     | Littoral at base<br>COLQUHOUN FORMATION<br>lagoonal | silty "greensand"                                 |
| ~~~~~ ? ~~~~~ ? ~~~~~ ? ~~~~~ ? ~~~~~ ? ~~~~~ ? ~~~~~ |                                              |                      |                                                     |                                                   |
| 2080.0<br>2092.3<br>2104.5<br>2119.8                  | K (forams)<br>or<br>Pre K                    | LATE<br>EOCENE       | ?TURRUM FORMATION<br>Lagoonal                       | calcareous,<br>glauconitic,<br>claystone          |
| ----- ? ----- ? ----- ? ----- ? ----- ? ----- ? ----- |                                              |                      |                                                     |                                                   |
| 2241.7<br>to<br>2266.15 (RC)                          | Basal N.<br>asperus-<br>P. asperopolus (S/P) | MID-EARLY<br>MIOCENE | ? non-marine                                        |                                                   |
| ----- ? ----- ? ----- ? ----- ? ----- ? ----- ? ----- |                                              |                      |                                                     |                                                   |
| 2302.75<br>to<br>2327.15 (RC)                         | M. diversus                                  | EARLY<br>EOCENE      | marginal<br>marine                                  |                                                   |

~~~~~ ? ~~~~~ possible hiatus

----- apparent conformable contact

FOSSIL TYPE (foram) = planktonic foraminifera

(S/P) = spore/pollen

(dino) = dinoflagellate

*sidewall cores unless suffix (RC),
indicating rotary cuttings.

Data source: Taylor files.

Interpreted by: David Taylor
July, 1983.

| CUTTINGS | | SPORES | | GYMNOSPERM POLLEN | | ANGIOSPERM POLLEN | | DINOFLAGELLATES | | SPORE
POLLEN
ZONE | | AGE | |
|--|---|--|--|---|--|---|--|---|--|---|--|-----|--|
| Depth in feet | | | | | | | | | | | | | |
| 7350-60 | + | | | | | | | | | | | | |
| 7430-40 | + | | | | | | | | | | | | |
| 7550-60 | + | | | | | | | | | | | | |
| 7580-90 | + | | | | | | | | | | | | |
| 7630-40 | + | | | | | | | | | | | | |
| SPORES, POLLEN and DINOFLAGELLATES IDENTIFIED IN BULLSEYE # 1. | | SPORES | | GYMNOSPERM POLLEN | | ANGIOSPERM POLLEN | | DINOFLAGELLATES | | SPORE
POLLEN
ZONE | | AGE | |
| | | <i>Cyathea paleospora</i> 2
<i>Cyathidites australis</i> 1
<i>C. minor</i> 4
<i>Dictyophyllidites concavus</i> 8
<i>Gleicheniidites cf G.circinidites</i> 1
<i>Laevigatosporites ovatus</i> 1 | | <i>Araucariacites australis</i> 1
<i>Lygistepollenites florinii</i> 3
<i>Phyllocladidites mawsonii</i> 3
<i>Podocarpidites</i> spp. 1
<i>Podosporites microsaccatus</i> 1 | | <i>Australopollis obscurus</i> 3
<i>Banksiaeidites elongatus</i> 3
<i>Dilwynites granulatus</i> 3
<i>Ericipites crassiexinus</i> 3
<i>Haloragacidites harrisii</i> 3
<i>Malvacipollis diversus</i> 3
<i>Myrtaceidites parvus</i> 2
<i>Nothofagidites emarcidus</i> 3
<i>N. endurus</i> 3
<i>N. falcatus</i> 3
<i>N. flemingii</i> 3
<i>N. geniatus</i> 3
<i>N. vansteenisii</i> 3
<i>Periporopollenites polycratus</i> 3
<i>Proteacidites adenanthoides</i> 3
<i>P. asperopolus</i> 3
<i>P. grandis</i> 3
<i>P. leightonii</i> 3
<i>P. pachypolus</i> 3
<i>Proteacidites</i> spp.
unidentified <i>tricolpate/tricolporate</i> | | <i>Apectodinium homomorphum</i> 5
<i>Cleistosphaeridium</i> sp.
<i>Deflandrea</i> -type sp.
<i>Glaphrocysta retiintexta</i> 6
<i>Heterosphaeridium heteracanthum</i> 5
<i>Impagidinium dispertitum</i> 6
<i>Operculoclinium centrocarpum</i> 5
<i>Operculodinium</i> sp. 1
<i>Spiniferites ramosus</i> 5
No. of unidentified dinoflagellates | | Dinoflagellate abundance
Dinoflagellate preservation | | | |
| | | Basal
<i>N. asperus-</i>
<i>P. asperop-</i>
<i>olus</i> | | Early-Mid
Eocene | | | | | | | | | |
| | | <i>M. diversus</i> | | Early
Eocene | | | | | | | | | |

Reference to Species:

- 1 Deltmann, 1963
- 2 Martin, 1973
- 3 Stover & Partridge, 1973
- 4 Couper, 1960
- 5 Lentin & Williams, 1977
- 6 Stover & Ewitt, 1978
- 7 Deflandre & Cookson, 1955
- 8 Harris, 1965

Key to assessment of abundance and preservation:

- φ good, above average
 0 average
 † poor, below average
 2 very poor, trace occurrence

DOLPHIN # 1

| Sample
Depth
m | ZONE &
fossil type | AGE | STRAT-UNIT
& FACIES | LITHOLOGY etc. |
|-----------------------------------|-----------------------|-------------------|---------------------------------|--|
| 1079.7 (SWC) | H (forams) | EARLY MIOCENE | GIPPSLAND LST
shallow shelf | bryozoal calc qtz
sandy siltsts |
| 1143.7 (SWC) | I (forams) | LATE
OLIGOCENE | LAKES
ENTRANCE | calcareous
glauconitic
mudstones |
| 1195.6 (RC)
to
1204.75 (RC) | J-1 (forams) | MID
OLIGOCENE | MARLS
littoral | etc |
| 1220.0 (SWC) | K (forams) | LATE EOCENE | COLQUHOUN
FORMATION lagoonal | "Greensand" |
| 1222.7 (CC)
to
1242.6 (CC) | NO DATA (forams) | | | |

SWC = sidewall core
 CC = conventional core
 RC = rotary cutting

~~~~~ definite hiatus

----- apparent conformable contact

FOSSIL TYPE (forams) = planktonic foraminifera  
 (dino) = dinoflagellates  
 (S/P) = spore/pollen

Data source: Taylor files

Interpreted by : David Taylor,  
 July, 1983.

GROPER # 1

| Sample<br>Depth<br>m           | ZONE &<br>fossil type                      | AGE               | STRAT-UNIT<br>& FACIES                 | LITHOLOGY etc                  |
|--------------------------------|--------------------------------------------|-------------------|----------------------------------------|--------------------------------|
| 851 (SWC)<br>854 (C.C.)        | H (forams)                                 | EARLY<br>MIOCENE  | LAKES<br>ENTRANCE                      | bryozoal marl                  |
| 862.3 (CC)<br>to<br>902.8 (CC) | I (forams)                                 | LATE<br>OLIGOCENE | MARLS<br>shallow shelf                 | calc. siltstone                |
| 905.8 (CC)<br>to<br>917.7 (CC) | J-1 (forams)                               | MID<br>OLIGOCENE  | COLQUHOUN FM<br>lagoonal &<br>littoral | glaucinitic, calc,<br>mudst.   |
| 919.6 (CC)<br>to<br>922.3 (CC) | K (forams)<br>and/or<br>Pre-K              | LATE<br>EOCENE    | TURRUM<br>FORMATION                    | glaucinitic qtz<br>sandy mudst |
| 931.8 (CC)<br>to<br>962.9 (CC) | D.extensa (dino)<br>Mid<br>N.asperus (S/P) | LATE<br>EOCENE    | lagoonal/<br>estuarine                 |                                |
| ----- ?                        | ----- ?                                    | ----- ?           | ----- ?                                | ----- ?                        |
| 1011 (SWC)                     | lower<br>N.asperus (S/P)                   | MID<br>EOCENE     | ?                                      | micaceous siltst               |

REFER GROPER # 2 sheet for Schematic Model of Transgressive Onlap  
on Western Margin.

SWC = sidewall core  
CC = conventional core

FOSSIL TYPE (foram) = planktonic foraminifera  
(dino) = dinoflagellates  
(S/P) = spore/pollen

~~~~~ definite hiatus

----- apparent conformable contact

--?-- inadequate information

Data source: Taylor files

Interpreted by: David Taylor

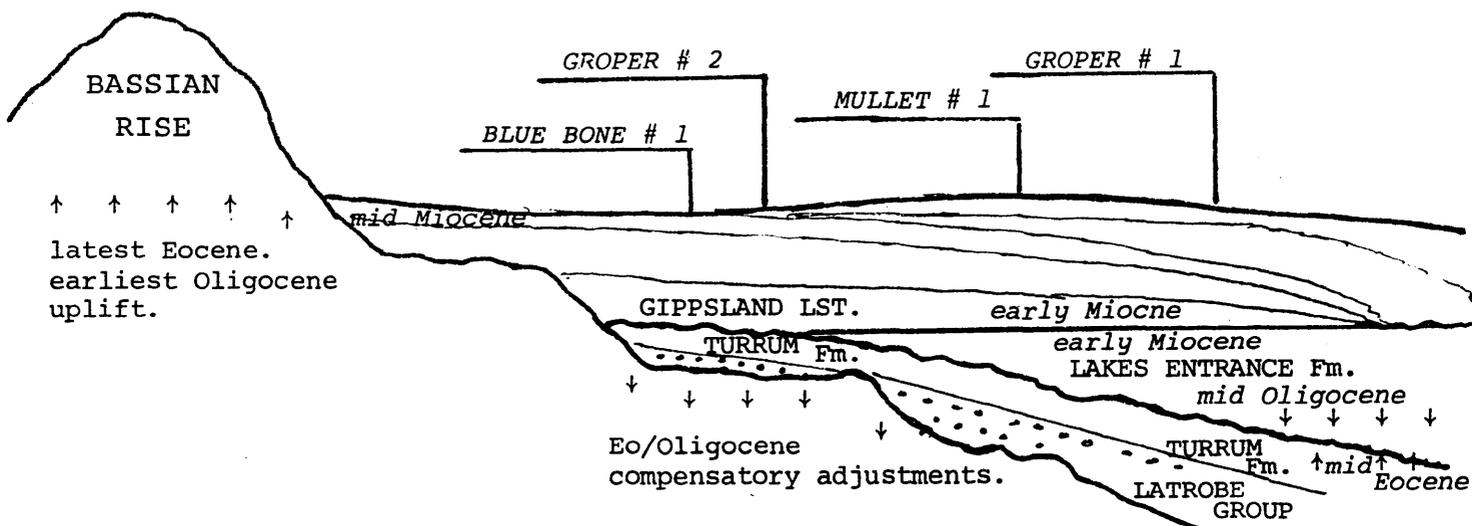
GROPER # 2

| Sample
Depth
m | ZONE &
fossil type | AGE | STRAT-UNIT
& FACIES | LITHOLOGY etc. |
|----------------------|------------------------|---------------|------------------------|----------------------|
| 750(CC) | H-1 (forams) | EARLY MIOCENE | GIPPSLAND LST. | bryozoal calcarenite |
| 760.7(SWC) ? | | | ? TURRUM FORMATION | glauconitic qtz |
| 762.5(SWC) | litho-correlation only | | lagoonal/estuarine | sandy mdst |

CC = conventional core
 SWC = sidewall core
 ~~~ = definite hiatus

FOSSIL TYPE (forams) = planktonic foraminifera

Data Source: Taylor files  
 Interpreted by: David Taylor,  
 July, 1983.



SCHEMATIC MODEL of TRANSGRESSIVE ONLAP after TECTONIC ADJUSTMENT on WESTERN MARGIN - GIPPSLAND BASIN.

David Taylor  
 July, 1983.

GURNARD # 1

| Sample*<br>Depth<br>m | ZONE &<br>fossil type          | AGE              | STRAT-UNIT<br>& FACIES         | LITHOLOGY etc.                  |
|-----------------------|--------------------------------|------------------|--------------------------------|---------------------------------|
| 2074.0                | H-1 (forams)                   | EARLY MIOCENE    | TASMAN<br>SEA                  | biogenic micrites<br>with oozes |
| 2104.5                | H-2 (forams)                   | LATEST OLIGOCENE | CARBONATES                     | at base                         |
| 2135.0                | I-1 (forams)                   |                  |                                |                                 |
| 2150.25               | J-2 (forams)                   | EARLY OLIGOCENE  | LAKES ENTRANCE<br>MARLS - deep | calcareous<br>claystones        |
| 2180.75               |                                |                  | water equivalent               |                                 |
| ? (RC)                | K (forams)                     | LATE EOCENE      | COLQUHOUN FM.<br>Littoral      | "greensand"                     |
| 2196.0                | N (forams)<br>N. asperus (S/P) | MID EOCENE       | GURNARD FM.<br>Estuarine       | "greensand"                     |

\* all depths cited were sidewall cores unless  
otherwise stated.

FOSSIL TYPE (forams) = planktonic foraminifera

----- apparent conformable contact

(S/P) = spore/pollen

~~~~~ definite hiatus

Data source: Taylor files

Interpreted by: David Taylor,
July 1983.

KINGFISH # 7

| Sample
Depth
m | Zone &
fossil types | AGE | STRAT-UNIT
& FACIES | LITHOLOGY etc. |
|---------------------------|------------------------|--------------------------------------|--|---|
| 2213.0
to
2237.5 | H-2
(forams) | LATE
OLIGOCENE | TASMAN SEA
CARBONATES
& OOZES | biomicrites |
| 2243.7
to
2249.7 | I-1
(forams) | | (continental
rise) | |
| 2252.7
to
2260.0 | J-2
(forams) | EARLY
OLIGOCENE | LAKES ENTRANCE equivalent
Deep water
Continental slope | calc siltst &
micrites recrystall-
ised at base |
| 2261.6 | K
(forams) | LATE
EOCENE | COLQUHOUN FORMATION
lagoonal/estuarine | "greensand" |
| 2263.1
2267.7
?2280 | Pre K
(forams) | ? LATE but
probably
MID EOCENE | GURNARD FORMATION | glauca &
limonitic qtz
sands |

All samples were sidewall cores

FOSSIL TYPE (forams) = planktonic foraminifera

(S/P) = spore/pollen

(dino) = dinoflagellates

~~~~~ possible hiatus

~~~~~ definite hiatus

- - - - - apparent conformable contact

Data source: Taylor files

Interpreted by: David Taylor
July 1983

ADDITIONAL FORAMINIFERAL DATA by DAVID TAYLOR (july, 1983)

13.

| BASIN GIPPSLAND | SECTION MORAY # 1 | STATE VICTORIA |
|---|--|--|
| Depth: 5380-5400' (1641m)
Sample: R.C.
Zone: J-2
Lith: forams calc qtz
sdst

Other fauna:

Count:
% Planks:
Environment:
shallow shelf platform
Comments:
HEAVY CONTAMINATION also
noted in SWC's at and
below this level. | Planktonics:

<i>G'ina angiporoides</i> (S.S.)
<i>G'ina brevis</i>
<i>G'ina tripartita</i>
plus heavy downhole
contamination.

Dominance of: | Benthonics:

Jan Juk fauna plus

<i>Vulvulina granulosa</i> sp.
<i>Ammosphaeroidina</i>
<i>Haeuslerella</i> sp.

Dominance of: |

ADDITIONAL FORAMINIFERAL DATA by DAVID TAYLOR (July, 1983)

| BASIN GIPPSLAND | SECTION MORAY # 1 | STATE VICTORIA |
|---|--|--|
| Depth: 5480-90' (1671.4m)
Sample: R.C.
Zone: ZONE N - Mid Eocene
Lith: lime m-c frosted
and fractured qtz. A-pellet
limonite after glauc.
A pyrite.
Other fauna:

Count:
% Planks:
Environment:
GURNARD FORMATION
Comments:
HEAVY CONTAMINATION | Planktonics: Orange Stained

<i>G'ina linaperta</i>
<i>G'ina primitiva</i>
<i>G'ina angiporoides minima</i>
plus
heavy downhole contamination

Dominance of: | Benthonics:

heavy downhole contamination

Dominance of: |

MULLET # 1

| Sample*
Depth
m | ZONE &
fossil type | AGE | STRAT-UNIT
& FACIES | LITHOLOGY etc |
|-------------------------|---------------------------|---------------|---|------------------------------------|
| 426.7 | F | EARLY MIOCENE | | |
| ----- | ? ----- ? | ----- ? | ----- ? | ----- ? |
| 470.3
to
679.2 | non diagnostic | | GIPPSLAND LIMESTONE
strand line | |
| ----- | ? ----- ? | ----- ? | ----- ? | ----- ? |
| 684.1
to
687.2 | J-1 (forams) | MID OLIGOCENE | COLQUHOUN FORMATION
Lagoonal &
littoral | glauconite,
qtz, calc
mdsts. |
| ~~~~~ | | | | |
| 689.6
702.7
703.3 | K (forams)
or
Pre K | LATE EOCENE | ? TURRUM
FORMATION | glauconitic
qtz sdsts. |

REFER GROPER # 2 sheet for Schematic Model of Transgressive Onlap on Western Margin.

FOSSIL TYPE (forams) = planktonic foraminifera

* all samples cited were sidewall cores.

----- ? ---- inadequate information

~~~~~ definite hiatus

Data source: Taylor files

Interpreted by: David Taylor  
July 1983.

NANNYGAI # 1

| Sample*<br>Depth<br>m | ZONE &<br>fossil type  | AGE           | STRAT-UNIT<br>& FACIES           | LITHOLOGY etc.          |
|-----------------------|------------------------|---------------|----------------------------------|-------------------------|
| 2079.0                | H-1                    | EARLY MIOCENE | TASMAN                           | biogenic                |
| -----                 |                        |               |                                  |                         |
| 2104.5                | H-2                    | LATEST        | SEA                              | micrites                |
| 2135.0                |                        | OLIGOCENE     | CARBONATES                       | with oozes              |
| &<br>2156.4           | I-1 (forams)           |               |                                  |                         |
| ~~~~~                 |                        |               |                                  |                         |
| 2162.5                | J-2 (forams)           | EARLIEST      | LAKES ENTRANCE                   | calcareous              |
| 2192.9                |                        | OLIGOCENE     | MARLS. Deep<br>water equivalents | claystones              |
| -----                 |                        |               |                                  |                         |
| 2199.0                | K (forams)             | LATE EOCENE   | COLQUHOUN FM.<br>Littoral        | greensand               |
| ----- ?               | ----- ?                | ----- ?       | ----- ?                          | ----- ?                 |
| 2205<br>to<br>2216.75 | No paleo<br>LITHO-ONLY | ?             | ? GURNARD<br>FORMATION           | "oxidised<br>greensand" |

\* All samples cited were sidewall cores

FOSSIL TYPE (forams) = planktonic foraminifera

----- apparent conformable contact

--?--- inadequate information

~~~~~ definite hiatus

Data source: Taylor files
Interpreted by: David Taylor
July 1983

PERCH # 1

| <i>E-log
Pick
m</i> | <i>Sample*
Depth
m</i> | <i>ZONE &
fossil type</i> | <i>AGE</i> | <i>STRAT-UNIT
& FACIES</i> | <i>LITHOLOGY</i> |
|-----------------------------|--------------------------------|-----------------------------------|-----------------------------|---|---|
| | 1034 | <i>H(forams)</i> | EARLY
MIOCENE | <i>GIPPSLAND LST
shallow shelf</i> | bryozoal calcarenite |
| | 1095 | <i>I(forams)</i> | LATE to
MID
OLIGOCENE | <i>LAKES ENTRANCE MARL
shallow shelf
COLQUHOUN FORMATION
Lagoonal/estuarine</i> | qtz sandy excl.
siltst.
Greensand |
| | 1128.5 | | | | |
| | 1131.5(R.C.) | | LATE | ?TURRUM | limonitic sdst. |
| | 1143.75 | <i>Pre K(forams)</i> | to | FORMATION | |
| | 1161.43 | | MID EOCENE | estuarine | |
| | 1195.6 | <i>N.asperus (S/P)</i> | | | |
| | (R.C.) | | | | |
| | 1372.5(R.C.) | ? <i>L. balmei</i> | | | |
| | to | (S/P) | PALEOCENE | non-marine | |
| | 1381.6(R.C.) | | | | |

* Sidewall cores unless suffix (R.C.) indicating rotary cuttings.

~~~~~ definite hiatus

----- apparent conformable contact

----- ? ----- contact relationship not known

FOSSIL TYPE (foram) = planktonic  
foraminifera

(S/P) = spore/pollen

(dino) = dinoflagellates

Data source: Taylor files plus additional  
palynology on cuttings by  
Helene Martin.  
Micropaleontology on cuttings  
by David Taylor.

Interpreted by: David Taylor  
July, 1983.

For additional sample results see attached sheets

| Depth (ft) | CUTTINGS |                   | SPORE-POLLEN ZONE | AGE                |
|------------|----------|-------------------|-------------------|--------------------|
|            | SPORES   | GYMNOSPERM POLLEN |                   |                    |
| 3700-10    | +        | +                 | SPORE-POLLEN ZONE | Mid - Early Eocene |
| 3910-20    | ++       | +                 |                   |                    |
| 4500-10    | +        | +++               |                   |                    |
| 4520-30    | +++      | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 | PALEOCENE         | Paleocene          |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |
|            | +        | +                 |                   |                    |

SPORES, POLLEN AND DINOFLAGELLATES IDENTIFIED IN PERCH # 1.

- Reference to species:
- 1 Dettmann, 1963
  - 2 Martin, 1973
  - 3 Stover & Partridge, 1973
  - 4 Couper, 1960
  - 5 Lentini & Williams, 1977
  - 6 Stover & Ewitt, 1972
  - 8 Harris, 1965

Key to assessment of abundance and preservation:

- φ good, above average
- o average
- ÷ poor, below average
- z exceedingly poor, trace occurrence

Helene A Martin, July 1983

| BASIN GIPPSLAND                                                                                                                                                                                                                                                                                               | SECTION PERCH # 1                                                                                                                                                                                                                                                                | STATE VICTORIA                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Depth: 3670-80 (1119.4m)<br>Sample: R.C.<br>Zone: J-1(3)<br>Lith: 40% f ang orange qtz<br>sdst (slightly calc)<br>50% pellet glauc<br>10% c ang qtz<br>Other fauna:<br>A - bryo.<br>Count: ? 1000<br>% Planks: ? 30%<br>Environment:<br>shallow shelf<br>Comments:<br>COLQUHOUN FORMATION<br>GREENSAND Member | Planktonics:<br><i>G'ina angiporoides</i> (S.S.)<br><i>G'ina tripartita</i><br><i>G'ina euapertura</i><br><i>G'ina praebulloidis</i><br><i>G'alia nana</i><br><i>G'alia opima</i><br><i>G'alia extans</i><br><i>G'alia munda</i><br>plus downhole contamination<br>Dominance of: | Benthonics:<br><i>Cib. novozealandica</i><br><i>Cib. perforatus</i><br><i>Gry. zealandica</i><br><i>Gaud. convexa</i><br><i>Quin. singletoni</i><br>plus<br>typical JAN JUKIAN<br>Assemblage<br>Dominance of: |

ADDITIONAL FORAMINIFERA DATA by DAVID TAYLOR (july, 1983)

| BASINGIPPSLAND                                                                                                                                                                                                                                                                                                  | SECTION PERCH # 1                                                                                                                                                       | STATE VICTORIA                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Depth: 3700-10 (to 1131.5m)<br>Sample: R.C.<br>Zone: Late to Mid Eocene<br>Lith: lim c-m ang qtz sdst<br>py - A<br>plus downhole contamination<br>Other fauna:<br>bryo - A<br>Count: ?<br>% Planks: ?<br>Environment: shallow warm<br>continual shelf platform<br>- intertidal<br>Comments:<br>TURRUM FORMATION | Planktonics: ORANGE STAINED<br><i>G'ina linaperta</i><br><i>G'ina angiporoides</i> (S.S.)<br><i>G'alia centralis</i><br>plus<br>downhole contamination<br>Dominance of: | Benthonics: Orange coated<br><i>Anom. aotea</i><br><i>Amphistegina</i> sp.<br><i>Gyroid. zealandica</i><br>plus white specimens<br>from further uphole<br>Dominance of: |



