



PE990426

A PALYNOLOGICAL ANALYSIS OF
FORTESCUE-4, GIPPSLAND BASIN.

by

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Paleontology Report 1979/14

May 10, 1979.

INTRODUCTION:

Twenty-one sidewall cores and seventeen samples from conventional cores were processed and examined for palynology. Palynomorph yield ranged from good to very poor, with eight samples so poor that stratigraphic determinations could not be made. Reprocessing of several of the poor yield samples did not improve the recovery enough that, in any case, additional stratigraphic information was obtained.

Zones and lithological/facies subdivisions of the basal Lakes Entrance Formation and Latrobe Group is summarized below. All samples examined are summarized in Table 1 and individual species occurrence is noted on the accompanying distribution sheets.

SUMMARY:

| <u>UNIT/FACIES</u> | <u>ZONE</u> | <u>DEPTH (in metres)</u> |
|--------------------------------------------|--------------------------|--------------------------|
| LAKES ENTRANCE Marl | <u>P. tuberculatus</u> | 2411.6 - 2416.65 |
| UNCONFORMITY | | |
| GURNARD FORMATION Glaucinitic Sandstone | Lower <u>N. asperus</u> | 2417.2 - 2417.75 |
| UNCONFORMITY | | |
| LATROBE GROUP Coarse Clastics | Lower <u>M. diversus</u> | 2422 - 2498.8 |
| | Upper <u>L. balmei</u> | 2501 - 2598 |
| | | 2602m T.D. |

GEOLOGICAL COMMENTS:

1. This well is similar in stratigraphic sections and stratigraphic thickness to Fortescue-2.
2. A thin layer of Gurnard of less than 5 metres thickness is present between the Oligocene Lakes Entrance and the Lower Eocene Latrobe. Of this amount, only one-half a metre can be confirmed by palynology (the presence of Areosphaeridium dictyoplokus). Other samples from this interval (2418 to 2420 metres) did not yield stratigraphically restricted species.

3. Based on the presence of Deflandria dartmooria and Tetracolporites multistrixus from near the top of the M. diversus interval and the lack of any species believed to be restricted to Middle M. diversus sediments or younger, the Latrobe section is not believed to extend stratigraphically above the Lower part of the Malvacipollis diversus Zone.
4. Apectodinium hyperacantha was found in the basal M. diversus sample and in the uppermost L. balmei assemblage (2501m) and again in the sample from 2573.5 metres. Although A. hyperacantha was not found in the samples between 2500m and 2573.5m, other dinoflagellates were present in many of them, therefore, the A. hyperacantha Zone is considered to extend from 2498.8 to 2573.5 metres.
5. Cyathidites gigantus was found in the bottom sample (2598m), therefore it is believed that this well did not penetrate below the Upper part of the L. balmei section.

DISCUSSION OF ZONES:

Upper Lygistepollenites balmei Zone: 2501m - 2598m

The presence of Lygistepollenites balmei, Australopollis obscurus and Gambierina rudata all demonstrate that the enclosing sediments are stratigraphically below the Malvacipollis diversus Zone. The scattered occurrence of Cyathidites gigantis, Apectodinium homomorpha, Proteacidites grandis, and P. incurvatus are considered proof that these beds are no older than Upper L. balmei zone.

Lower Malvacipollis diversus Zone: 2422m to 2498.8m

The lack of stratigraphically older species, such as Lygistepollenites balmei, Australopollis obscurus and Gambierina rudata, as well as the presence of Proteacidites lapis, P. grandis, Malvacipollis diversus and Tricolpites gilli place these sediments in the Lower Eocene M. diversus zone. The presence of Deflandria dartmooria and Tetracolporites multistrixus indicate that only the lower part of the M. diversus zone is represented in this well section.

Lower Nothofagidites asperus Zone: 2417.2m to 2417.75m

The three samples attributed to this zone did not yield very large floras, but in each case, a number of specimens of Areosphaeridium dictyoplokus, the dinoflagellate marker for this zone, was found. The four samples between the lowest occurrence of definite Lower N. asperus markers (2417.75m) and the top of a recognizable M. diversus assemblage (2422m) are barren of diagnostic fossils, and this section cannot be assigned to any stratigraphic interval with confidence.

Proteacidites tuberculatus Zone: 2411.6m to 2416.65m

There is no doubt that the section between 2411.6m and 2414m is in the P. tuberculatus zone. Cyathidites annulatus, Protoellipsodinium simplex, Pyxidinospsis pontus and other post Eocene species are found in these samples. Below 2414 metres, however, the delineation is not as good. Recovery was very poor, even from reprocessed samples and fossils consisted mostly of long ranging, stratigraphically undiagnostic species. The assemblage obtained from the core sample at 2416.65 metres contained both Cyathidites annulatus and Protoellipsodinium simplex, markers for the P. tuberculatus zone, and specimens of Areosphaeridium dictyoplokus, the index of the Lower N. asperus zone. The sample is carried as from the P. tuberculatus zone (with a 2 rating), making the assumption that the presence of A. dictyoplokus is the result of reworking. Out of place fossils, also considered reworked was found in several of the shallower, P. tuberculatus, samples. Proteacidites pseudomoides, P. pachypolus and Areosphaeridium dictyoplokus were encountered in the flora from 2413.4m and Cyathidites splendens, Proteacidites recavus and P. crassus were present in the assemblage from the top sample at 2411.6m.

REFERENCES

- Stacy, H.E. 1979, Paleontological Analysis of Fortescue-2, Gippsland Basin, ESOA Paleo. Rept. 1979/4.

P A L Y N O L O G Y D A T A S H E E T

B A S I N: GIPPSLAND

ELEVATION: KB: 25m GL: 68m

WELL NAME: FORTESCUE-4

TOTAL DEPTH: 2602m

| A G E | PALYNOLOGICAL ZONES | H I G H E S T D A T A | | | | | L O W E S T D A T A | | | | |
|-----------------|--------------------------|-------------------------|-----|-----------------|-----|--------------|-----------------------|-----|-----------------|-----|--------------|
| | | Preferred Depth | Rtg | Alternate Depth | Rtg | Two Way Time | Preferred Depth | Rtg | Alternate Depth | Rtg | Two Way Time |
| NEOGENE | <i>T. pleistocenicus</i> | | | | | | | | | | |
| | <i>M. lipsis</i> | | | | | | | | | | |
| | <i>C. bifurcatus</i> | | | | | | | | | | |
| | <i>T. bellus</i> | | | | | | | | | | |
| PALEOGENE | <i>P. tuberculatus</i> | 2411.6 | 1 | | | | 2416.65 | 2 | 2414 | 1 | |
| | Upper <i>N. asperus</i> | | | | | | | | | | |
| | Mid <i>N. asperus</i> | | | | | | | | | | |
| | Lower <i>N. asperus</i> | 2417.2 | 1 | | | | 2417.75 | 1 | | | |
| | <i>P. asperopolus</i> | | | | | | | | | | |
| | Upper <i>M. diversus</i> | | | | | | | | | | |
| | Mid <i>M. diversus</i> | | | | | | | | | | |
| | Lower <i>M. diversus</i> | 2422 | 2 | 2425.2 | 1 | | 2498.8 | 1 | | | |
| | Upper <i>L. balmei</i> | 2501 | 1 | | | | 2598 | 1 | | | |
| | Lower <i>L. balmei</i> | | | | | | | | | | |
| LATE CRETACEOUS | <i>T. longus</i> | | | | | | | | | | |
| | <i>T. lilliei</i> | | | | | | | | | | |
| | <i>N. senectus</i> | | | | | | | | | | |
| | U. <i>T. pachyexinus</i> | | | | | | | | | | |
| | L. <i>T. pachyexinus</i> | | | | | | | | | | |
| | <i>C. triplex</i> | | | | | | | | | | |
| EARLY CRET. | <i>A. distocarinatus</i> | | | | | | | | | | |
| | <i>C. paradoxus</i> | | | | | | | | | | |
| | <i>C. striatus</i> | | | | | | | | | | |
| | <i>F. asymmetricus</i> | | | | | | | | | | |
| | <i>F. wonthaggiensis</i> | | | | | | | | | | |
| PRE-CRETACEOUS | | | | | | | | | | | |

COMMENTS: A. hyperacantha zone extends from 2498.8 to 2573.5m.

- CONFIDENCE RATING:
- 0: SWC or Core, Excellent Confidence, assemblage with zone species of spores, pollen and microplankton.
 - 1: SWC or Core, Good Confidence, assemblage with zone species of spores and pollen or microplankton.
 - 2: SWC or Core, Poor Confidence, assemblage with non-diagnostic spores, pollen and/or microplankton.
 - 3: Cuttings, Fair Confidence, assemblage with zone species of either spores and pollen or microplankton, or both.
 - 4: Cuttings, No Confidence, assemblage with non-diagnostic spores, pollen and/or microplankton.

NOTE: If an entry is given a 3 or 4 confidence rating, an alternative depth with a better confidence rating should be entered, if possible. If a sample cannot be assigned to one particular zone, then no entry should be made, unless a range of zones is given where the highest possible limit will appear in one zone and the lowest possible limit in another.

DATA RECORDED BY: HOWARD STACY

DATE: MAY 8, 1979

DATA REVISED BY: _____

DATE: _____

T A B L E 1

SUMMARY OF PALEONTOLOGICAL ANALYSES, FORTESCUE-4, GIPPSLAND BASIN

| SAMPLE | DEPTH (m) | DEPTH (ft) | ZONE | AGE | CONFIDENCE RATING | YIELD | DIVERSITY | COMMENTS |
|--------|-----------|------------|--------------------------|---------------|-------------------|----------|-----------|------------------------------------------------------------------|
| Core 3 | 2411.6 | 7912 | <u>P. tuberculatus</u> | Oligocene | 1 | Low | Moderate | |
| SWC 38 | 2412* | 7913.4 | <u>P. tuberculatus</u> | Oligocene | 0 | Low | Moderate | |
| Core 3 | 2412.6 | 7915.4 | <u>P. tuberculatus</u> | Oligocene | 0 | Fair | Moderate | |
| Core 3 | 2413.4* | 7918 | <u>P. tuberculatus</u> | Oligocene | 2 | Low | Moderate | |
| SWC 37 | 2414 | 7920 | <u>P. tuberculatus</u> | Oligocene | 1 | Low | Poor | |
| Core 3 | 2414.45* | 7921.4 | Indeterminate | - | - | Very Low | Very Poor | Almost barren |
| Core 3 | 2415.5* | 7925 | <u>P. tuberculatus</u> | Oligocene | 2 | Low | Moderate | |
| SWC 36 | 2416 | 7926.5 | Indeterminate | - | - | Very Low | Very Poor | |
| Core 3 | 2416.65* | 7928.6 | <u>P. tuberculatus</u> | Oligocene | - | Low | Moderate | <u>C. annulatus</u> , <u>P. simplex</u> , <u>A. dictyoplokus</u> |
| Core 3 | 2417.2* | 7930.4 | Lower <u>N. asperus</u> | Middle Eocene | 1 | Low | Moderate | <u>A. dictyoplokus</u> |
| Core 3 | 2417.5 | 7931.4 | Lower <u>N. asperus</u> | Middle Eocene | 1 | Low | Poor | <u>A. dictyoplokus</u> |
| Core 3 | 2417.75 | 7932.3 | Lower <u>N. asperus</u> | Middle Eocene | 1 | Low | Moderate | Mostly plant fragments, <u>A. dictyoplokus</u> |
| Core 3 | 2418* | 7933 | Indeterminate | - | - | Barren | - | Barren |
| SWC 35 | 2418 | 7933 | Indeterminate | - | p | Very Low | Very Poor | Almost barren. |
| Core 3 | 2419.6 | 7938.3 | Indeterminate | - | - | Very Low | Poor | |
| SWC 34 | 2420* | 7939.6 | Indeterminate | - | - | Low | Poor | |
| SWC 30 | 2422 | 7946 | Lower <u>M. diversus</u> | Early Eocene | 2 | Fair | Moderate | |
| Core 4 | 2425.2 | 7956.7 | Lower <u>M. diversus</u> | Early Eocene | 1 | Fair | High | <u>D. dartmooria</u> , <u>D. flunderensis</u> |
| Core 4 | 2431 | 7975.7 | Lower <u>M. diversus</u> | Early Eocene | 2 | Fair | Poor | |
| Core 5 | 2444.4 | 8019.7 | Lower <u>M. diversus</u> | Early Eocene | 1 | Good | High | <u>D. dartmooria</u> , <u>D. flunderensis</u> |
| Core 5 | 2449.7 | 8037 | Indeterminate | - | - | Low | Very Poor | Almost barren. |
| Core 6 | 2451.5 | 8043 | Lower <u>M. diversus</u> | Early Eocene | 1 | Good | Moderate | |
| Core 6 | 24601 | 8070.2 | Lower <u>M. diversus</u> | Early Eocene | 1 | Good | Moderate | |
| SWC 24 | 2465.3 | 8088.3 | Lower <u>M. diversus</u> | Early Eocene | 1 | Good | Moderate | |
| SWC 23 | 2470.5 | 8105.3 | Lower <u>M. diversus</u> | Early Eocene | 1 | Good | High | |
| SWC 22 | 2474 | 8116.8 | Lower <u>M. diversus</u> | Early Eocene | 1 | Good | Moderate | |
| SWC 21 | 2478.7 | 8132.2 | Lower <u>M. diversus</u> | Early Eocene | 1 | Good | High | |
| SWC 16 | 2498.8 | 8198.2 | Lower <u>M. diversus</u> | Early Eocene | 1 | Good | High | <u>A. hyperacantha</u> |
| SWC 15 | 2501 | 8205.4 | Upper <u>L. balmei</u> | Paleocene | 1 | Fair | Moderate | <u>A. hyperacantha</u> |
| SWC 13 | 2520 | 8267.7 | Indeterminate | - | - | Very Low | Very Poor | Almost barren |
| SWC 12 | 2525.6 | 8286 | Upper <u>L. balmei</u> | Paleocene | 1 | Good | High | |
| SWC 11 | 2531.5 | 8305.4 | Upper <u>L. balmei</u> | Paleocene | 1 | Fair | Moderate | |
| SWC 10 | 2544.2 | 8347 | Upper <u>L. balmei</u> | Paleocene | 1 | Low | Poor | |
| SWC 5 | 2573.5 | 8443.2 | Upper <u>L. balmei</u> | Paleocene | 2 | Good | High | <u>A. hyperacantha</u> |
| SWC 4 | 2581 | 8467.8 | Upper <u>L. balmei</u> | Paleocene | 2 | Good | High | |
| SWC 3 | 2585.5 | 8492.5 | Upper <u>L. balmei</u> | Paleocene | 1 | Good | Moderate | |
| SWC 2 | 2593 | 8507.2 | Upper <u>L. balmei</u> | Paleocene | 2 | Fair | Moderate | |
| SWC 1 | 2598 | 8523.6 | Upper <u>L. balmei</u> | Paleocene | 1 | Poor | Low | |

* Reprocessed Samples.

| SAMPLE TYPE * | C | | S | | C | | S | | C | | S | | C | | S | | C | | S | | | | | | | | | |
|-----------------------|--------|------|--------|--------|------|---------|--------|------|---------|--------|--------|---------|------|------|--------|------|------|--------|------|--------|--------|--------|--------|--------|--------|------|--------|--------|
| | 2411.6 | 2412 | 2412.6 | 2413.4 | 2414 | 2414.45 | 2415.5 | 2416 | 2416.65 | 2417.2 | 2417.5 | 2417.75 | 2418 | 2418 | 2419.6 | 2420 | 2422 | 2425.2 | 2431 | 2444.4 | 2449.7 | 2451.5 | 2460.1 | 2465.3 | 2470.5 | 2474 | 2487.7 | 2498.8 |
| A. qualumis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. acutullus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. luteoides | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. oculatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. sectus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. triplaxis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. obscurus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. disconformis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. arcuatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. elongatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. mutabilis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. otwayensis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. elegansiformis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. trigonalis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. verrucosus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. bombaxoides | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. emaciatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. bullatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. heskermensis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. horrendus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. meleosus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. apiculatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. leptos | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. striatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. vanraadshoovenii | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. orthoteichus/major | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. annulatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. gigantis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C. splendens | RW | | RW | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. australiensis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. granulatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. tuberculatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. delicatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D. semilunatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E. notensis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E. crassiexinus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F. balteus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F. crater | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F. lucunosus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F. palaequetrus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. edwardsii | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. rudata | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. divaricatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. gestus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. catathus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. cranwellae | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. wahoensis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. bassensis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G. nebulosus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H. harrisi | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H. astrus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H. elliotii | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I. anguloclavatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I. antipodus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I. notabilis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I. gremius | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I. irregularis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J. peiratus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K. waterbolkii | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. amplius | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. crassus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. ohaiensis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. bainii | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. lanceolatus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. balmei | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L. florinii | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M. diversus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M. duratus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M. grandis | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M. perimagnus | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* C = core; S = sidewall core; T = cuttings.

| SAMPLE TYPE * | C | S | C | C | S | C | S | C | C | C | C | C | C | S | S | C | C | C | C | S | S | S | S | S | | | | | |
|---------------------------------|--------|------|--------|--------|------|---------|--------|------|---------|--------|--------|---------|------|------|--------|------|------|--------|------|--------|--------|--------|--------|--------|--------|------|--------|--------|--|
| DEPTHS | 2411.6 | 2412 | 2412.6 | 2413.4 | 2414 | 2414.45 | 2415.5 | 2416 | 2416.65 | 2417.2 | 2417.5 | 2417.75 | 2418 | 2418 | 2419.6 | 2420 | 2422 | 2425.2 | 2431 | 2444.4 | 2449.7 | 2451.5 | 2460.1 | 2465.3 | 2470.5 | 2474 | 2487.7 | 2498.8 | |
| PALYNOMORPHS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>M. subtilis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>M. ornamentalis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>M. hypolaenoides</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>M. homeopunctatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>M. parvus/mesonesus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>M. tenuis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>M. verrucosus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>M. australis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. asperus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. asperoides</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. brachyspinulosus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. deminutus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. emarcidus/heterus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. endurus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. falcatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. flemingii</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. goniatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. senectus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>N. vansteenisii</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>O. sentosa</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. ochesis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. catastus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. demarcatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. magnus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. polyoratus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. vesicus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. densus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. velosus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. morganii/jubatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. mawsonii</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. reticulosaccatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. verrucosus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. crescentis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. esobalteus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. langstonii</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. reticulatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. simplex</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. varus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. adenanthoides (Prot.)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. alveolatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. amolosexinus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. angulatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. annularis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. asperopolus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. biornatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. clarus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. cleinei</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. confragosus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. crassis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. delicatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. formosus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. grandis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. grevillaensis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. incurvatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. intricatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. kopiensis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. lapis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. latrobensis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. leightonii</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. obesolabrus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. obscurus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. ornatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. otwayensis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. pachypolus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. palisadus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. parvus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. plemmelus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. prodigus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. pseudomoides</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. recavus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

*C=core; S= sidewall core; T= cuttings.

| SAMPLE TYPE * | S | S | S | S | S | S | S | S | S | S | S | | | | | | | | | | |
|------------------------------|------|------|--------|--------|--------|--------|------|--------|------|------|---|---|---|---|---|---|---|---|---|---|---|
| DEPTHS | 2501 | 2520 | 2525.6 | 2531.5 | 2544.2 | 2573.5 | 2581 | 2585.5 | 2593 | 2598 | | | | | | | | | | | |
| PALYNOMORPHS | | | | | | | | | | | | | | | | | | | | | |
| <i>A. qualumis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>A. acutullus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>A. luteoides</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>A. oculus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>A. sectus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>A. triplaxis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>A. obscurus</i> | | | / | | | / | / | | / | | | | | | | | | | | | |
| <i>B. discoformis</i> | | | / | | | / | / | | / | | | | | | | | | | | | |
| <i>B. arcuatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>B. elongatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>B. mutabilis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>B. otwayensis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>B. elegansiformis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>B. trigonalis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>B. verrucosus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>B. bombaxoides</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>B. emaciatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. bullatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. heskermensis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. horrendus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. meleosus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. apiculatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. leptos</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. striatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. vanraadshoovenii</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. orthoteichus/major</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. annulatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>C. gigantis</i> | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| <i>C. splendens</i> | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| <i>D. australiensis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>D. granulatus</i> | | | / | | | / | | | / | | / | | | | | | | | | | |
| <i>D. tuberculatus</i> | | | / | | | / | | | / | | / | | | | | | | | | | |
| <i>D. delicatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>D. semilunatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>E. notensis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>E. crassiexinus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>F. balteus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>F. crater</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>F. lucunosus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>F. palaequetrus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>G. edwardsii</i> | | | / | | | / | | | / | | / | | | | | | | | | | |
| <i>G. rudata</i> | | | / | / | | / | | | / | | / | | | | | | | | | | |
| <i>G. divaricatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>G. gestus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>G. catathus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>G. cranwellae</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>G. wahooensis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>G. bassensis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>G. nebulosus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>H. harrisii</i> | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| <i>H. astrus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>H. elliotii</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>I. anguloclavatus</i> | | | | | | | | | / | | / | | | | | | | | | | |
| <i>I. antipodus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>I. notabilis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>I. gremius</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>I. irregularis</i> | | | / | | | / | | | / | | / | | | | | | | | | | |
| <i>J. peiratus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>K. waterbolkii</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>L. amplus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>L. crassus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>L. ohaiensis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>L. bainii</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>L. lanceolatus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>L. balmei</i> | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| <i>L. florinii</i> | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| <i>M. diversus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>M. duratus</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>M. grandis</i> | | | | | | | | | | | | | | | | | | | | | |
| <i>M. perimagnus</i> | | | | | | | | | | | | | | | | | | | | | |

*C= core; S= sidewall core; T= cuttings.

Well Name FORTESCUE-4

Basin GIPPSLAND

Sheet No. 6 of 8

| SAMPLE TYPE * | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|--------------------------------|------|------|--------|--------|--------|--------|------|--------|------|------|---|---|---|---|---|---|---|---|---|---|
| | 2501 | 2520 | 2525.6 | 2531.5 | 2544.2 | 2573.5 | 2581 | 2585.5 | 2593 | 2598 | | | | | | | | | | |
| DEPTHS | | | | | | | | | | | | | | | | | | | | |
| PALYNOMORPHS | | | | | | | | | | | | | | | | | | | | |
| <i>M. subtilis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>M. ornamentalis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>M. hypolaenoides</i> | | | | | | | | | | | | | | | | | | | | |
| <i>M. homeopunctatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>M. parvus/mesonesus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>M. tenuis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>M. verrucosus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>M. australis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. asperus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. asperoides</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. brachyspinulosus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. deminutus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. emarcidus/heterus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. endurus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. falcatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. flemingii</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. goniatius</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. senectus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>N. vansteenisii</i> | | | | | | | | | | | | | | | | | | | | |
| <i>O. sentosa</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. ochesis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. catastus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. demarcatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. magnus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. polyoratus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. vesicus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. densus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. velosus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. morgani/jubatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. mawsonii</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. reticulosaccatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. verrucosus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. crescentis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. esobalteus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. langstonii</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. reticulatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. simplex</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. varus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. adenantoides</i> (Prot.) | | | | | | | | | | | | | | | | | | | | |
| <i>P. alveolatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. amolosexinus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. angulatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. annularis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. asperopolus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. biornatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. clarus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. cleinei</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. confragosus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. crassis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. delicatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. formosus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. grandis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. grevillensis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. incurvatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. intricatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. kopiensis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. lapis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. latrobensis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. leightonii</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. obesolabratus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. obscurus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. ornatus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. otwayensis</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. pachypolus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. palisadus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. parvus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. plemmelus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. prodigus</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. pseudomoides</i> | | | | | | | | | | | | | | | | | | | | |
| <i>P. recavus</i> | | | | | | | | | | | | | | | | | | | | |

*C= core; S= sidewall core; T= cuttings.

| SAMPLE TYPE * | DEPTHS | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--------|------|--------|--------|--------|--------|------|--------|------|------|---|--|--|--|--|--|--|--|--|--|--|--|
| | S | S | S | S | S | S | S | S | S | S | S | | | | | | | | | | | |
| | 2501 | 2520 | 2525.6 | 2531.5 | 2544.2 | 2573.5 | 2581 | 2585.5 | 2593 | 2598 | | | | | | | | | | | | |
| PALYNOMORPHS | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. rectomarginis</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. reflexus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. reticulatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. reticuloconcavus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. reticulosabratus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. rugulatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. scitus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. stipplatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. tenuixinus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. truncatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. tuberculatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. tuberculiformis</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. tuberculotumulatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>P. xestiformis (Prot.)</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>O. brossus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>R. boxatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>R. stellatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>R. mallatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>R. trophus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. cainozoicus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. rotundus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. digitatoides</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. marlinensis</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. rarus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. meridianus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. prominatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. uvatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. punctatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>S. regium</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. multistrixis (CP4)</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. textus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. verrucosus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. securus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. confessus (C3)</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. gillii</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. incisus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. longus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. phillipsii</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. renmarkensis</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. sabulosus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. simatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. thomasi</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. waiparaensis</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. adalaidensis (CP3)</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. angurium</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. delicatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. geraniodes</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. leuros</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. lilliei</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. marginatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. moultonii</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. paenestriatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. retequetrus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. scabratus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. sphaerica</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. magnificus (P3)</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. spinosus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. ambiguus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. chnosus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. helosus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. scabratus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. sectilis</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>V. attinatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>V. cristatus</i> | | | | | | | | | | | | | | | | | | | | | | |
| <i>V. kopukuensis</i> | | | | | | | | | | | | | | | | | | | | | | |

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