

CONFIDENTIAL

CLASS 1

- 5 -

Non-marine environments are indicated by the abundant spores and pollen, and absence of dinoflagellates other than Morkallacysta Pyramidalis. Other dinoflagellates in the cuttings are considered to be caved.

Spore colours of light brown approaching mid brown indicate marginal maturity for oil, and immaturity for gas/condensate.

J. 2491 (cutts)-2763.5m (swc) : T. longus Zone

Assignment to the Tricolpites longus Zone is indicated at the top by the youngest occurrence of Tricolpites confessus and confirmed by that of T. waipawaensis. The zone base is indicated by the oldest occurrence of Grapnelispora evansii (2763.5m swc) and Tricolpites longus (2728.0m swc). These taxa are very scarce, however, and the base of this zone is not as confidently defined as some others. Trace quantities of reworked Triassic taxa were seen.

Non-marine environments are indicated by the dominance of spores and pollen and only very rare dinoflagellates in the form of the probably lacustrine M. pyramidalis.

Spore colours of mid brown indicate maturity for oil, but only marginal maturity for gas/condensate.

K. 2797 (cutts)-3148m (cutts) (3126.0m swc) : T. lillei Zone

Assignment to the Tricolpites lillei Zone is indicated at the top by the absence of younger indicators and at the base by the oldest occurrences of G. rudata, T. waipawaensis, Triporopollenites sectilis and Stereisporites regium, all at 3139-48m (cutts). In sidewall cores, G. rudata and T. waipawaensis confirm the assignment at 3126.0m. Trace Triassic and occasionally Permian reworking are seen.

Non-marine environments are indicated by the common and diverse spores and pollen and presence only of rare M. pyramidalis amongst the dinoflagellates.

Spore colours of mid brown indicate maturity for oil, and immaturity but approaching maturity for gas/condensate.

IV CONCLUSIONS

- A. The drilled section is apparently complete and conformable and the studied section is of Campanian (T. lillei Zone) to Late Eocene (middle N. asperus Zone) age.