

a confident finer subdivision.

Marine microplankton occur in all productive samples from this zone.

Characteristically, the assemblage is highly corroded biologically and is further evidence of "marine-ness".

Lygistepollenites balmei Zone - side wall core samples from 9003 to 9350 feet. The first definite *L. balmei* assemblages occur at 9003 feet where both *L. balmei* and *G. rudata* are present. The three "Indeterminate" samples between 8540 and 8736 feet are virtually barren with highly corroded and/or carbonised grains. There is no indication however of any marine elements and the assemblages could well be referred to the *L. balmei* Zone. The alternative top then could be at 8540 feet.

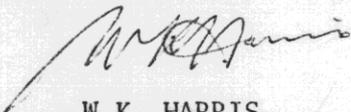
The presence of *C. gigantis* in these samples would indicate a position high in the *L. balmei* Zone.

Marine microplankton occur commonly in the lowest sample and again the elements of the assemblage are highly corroded biologically.

Reworked palynomorphs - Reworked Permian species particularly *Parasaccites* spp. occur sporadically throughout the sequence. Cretaceous forms, *Classofollis* sp. and *Aequitriradites spinulosus* occur at 5525 and 9167 feet respectively.

There is no evidence of reworking within the Tertiary sequence.

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