

Rept.Bk.No. 785
G.S. No. 5454
D.M. No. 155/73
Biostrat.Rept.No. 6/74

THE PALYNOLOGY OF HEMATITE NANGKERO NO. 1 WELL
BASS BASIN, TASMANIA

SUMMARY

Depth in feet	Zones	Age
5525 - 7113	<i>N. asperus</i>	Middle to Late Eocene
7394 - 7635	<i>P. asperopolus</i>	Early to Middle Eocene
7747 - 8250	<i>M. diversus</i>	Early Eocene
8540 - 8736	Indeterminate	
9003 - 9350	Late <i>L. balmei</i>	Late Paleocene

The above palynological zone assignments are based on 21 side wall core and one conventional core samples from Hematite Nangkero No.1 Well Bass Basin Tasmania (Permit T/4P, latitude 40°04'25.01" south, longitude 145°58'40.67" east). Total depth of the well was 9440' K.B.

Side wall cores between 5525 and 7747 feet yield low diversity assemblages with fair to poor preservation. The remainder of the samples were characterised by very low yields with very poor preservation. The effects of carbonisation are most pronounced in this interval. Biological degradation is most prominent in those samples which are indicative of a marginal marine environment. Microplankton are recorded from all zones except that of *P. asperopolus* and in some samples they are a very common element of the assemblage.

Both reworked Cretaceous and Permian species occur sporadically throughout the section.