

OPEN FILE

DEPARTMENT OF MINES AND ENERGY  
SOUTH AUSTRALIA

REPT..BK.NO.. 88/68  
PRELIMINARY PALYNOLOGICAL RESULTS  
OF R/V RIG SEISMIC CRUISE 11,  
GREAT AUSTRALIAN BIGHT BASIN 1986.  
APPENDIX TO BMR RECORD 1988/16

GEOLOGICAL SURVEY

by

N.F. ALLEY  
BIOSTRATIGRAPHY

SEPTEMBER, 1988

DME.129/88  
BIOSTRAT.REPT.4/88

DEPARTMENT OF MINES AND ENERGY  
SOUTH AUSTRALIA

Rept. Bk. No. 88/68  
Biostrat No. 4/88  
D.M.E. No. 129/88  
Disk No. 71

PRELIMINARY PALYNOLOGICAL RESULTS OF R/V RIG SEISMIC  
CRUISE 11, GREAT AUSTRALIAN BIGHT BASIN 1986.  
APPENDIX TO BMR RECORD 1988/16.

The results for each sample are presented in the following order:

Palynological no. (SADME)

Rock sample no. (BMR)

Palynological zone

Age

Environment

---

S 6419, 66DR14E, unknown, unknown, marine.

S 4920, 66DR8E, unknown, Palaeocene to Early Eocene, ?paralic.

S 6421, 66DR7E, *Lygistepollenites balmei* to *Malvacipollis diversus* spore/pollen zone, Late Palaeocene to Early Eocene, marginal marine.

S 6423, 66DR1C, *Odontochitina porifera* to *Nelsoniella aceras* dinoflagellate zones, Late Cretaceous (Coniacian/Santonian), ?paralic.

S 6416, 66DR9C, this sample is a mixture of pollen, spores and dinoflagellates ranging in age from Early Cretaceous to Early/Middle Eocene.

S 6414, 66DR1G, unknown, probably Maastrichtian to Early Palaeocene, marine.

S 6413, 66DR11E, this sample contains a mixture of pollen, spores and dinoflagellates ranging in age from Early Cretaceous to Early Eocene.

S 6412, 66DR1H, *Malvacipollis diversus*, Early Eocene, marine.

S 6400, 66DR3A, this sample contains a mixture of pollen, spores and dinoflagellates ranging in age from Early Cretaceous to Early Eocene.

S 6415, 66DR8D, *Malvacipollis diversus* pollen zone, Early Eocene, marginal marine.

S 6417, 66DR7A, ?*Lygistepollenites balmei* to ?*Malvacipollis diversus* spore/pollen zones, ?Late Palaeocene to ?Early Eocene, marine.

S 6398, 66DR12G, *Tricolpites longus* to *Lygistepollenites balmei* pollen zones, Palaeocene, nonmarine.

S 6399, 66DR8F, *Lygistepollenites balmei* zone, Late Palaeocene, ?paralic.

S 6404, 66DR12F, *Lygistepollenites balmei* zone, Late Paleocene, marginal marine.

S 6426, 66DR16B, unknown (only dinoflagellates present), possibly mid Cretaceous, marine.

S 6429, 66DR14D, unknown (mainly dinoflagellates), possibly Late Cretaceous, marine.

S 6432, 66DR8C, produced no palynomorphs.

S 6430, 66DR7F, unknown (mainly dinoflagellates), Late Cretaceous (Campanian/Maastrichtian), marine.

S 6454, 66DR12E, unknown, Late Cretaceous to Palaeocene, marine.

S 6449, 66DRD, unknown, unknown, marine.

S 6447, 66DR11, *Lygistepollenites balmei*, Late Palaeocene, marginal marine.

S 6446, 66DR12D, *Tricolpites longus*, Early to Middle Palaeocene, marginal marine.

S 6445, 66DR11F, unknown, Late Cretaceous to Tertiary, marginal marine.

S 6444, 66DR9C, *L. Balmei* to *Malvacipollis diversus*, Late Palaeocene to Early Eocene, marginal marine.

S 6443, 66DR14F, *L. balmei* to *M. diversus*, L. Paleocene to E. Eocene, marginal marine.

S 6448, 66DR3C, unknown, probably Late Cretaceous (younger than Turonian) although an Early Tertiary age cannot be ruled out because the palynoflora is extremely poor. However, I observed no Tertiary forms. Marginal marine.

6 September, 1988

NFA:AM

N.F. ALLEY

BIOSTRATIGRAPHY BRANCH