DEPARTMENT OF MINES AND ENERGY

GEOLOGICAL SURVEY

SOUTH AUSTRALIA

REPORT BOOK NO. 91/83

BIOSTRATIGRAPHY OF A BORE NEAR COOMANDOOK

K LABLACK

Biostratigraphy Branch

SEPTEMBER 1991 **DME 186/80**

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Biostratigraphy of a bore near Coomandook

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BOREHOLE DATA:

General location: 9 km north-west of Coomandook
Borehole unit no.: 6827-01648
Permit no.: 95691
Geological Province: Murray Basin
Mapsheet: 1:250,000 PINNAROO; 1:100,000 Moorlands III

SAMPLE DATA:

Type of sample: Cuttings
Submitter: S.R. Barnett

RESULTS:

Depth	RS number	Lithology	Age
5&6m	6827-206	Greenish-fawn glauconitic, fossiliferous, medium-grained limestone	Late Oligocene
7&8m	6827-207	As above	early Late Oligocene
9&10m	6827-208	As above	
11&12m	6827-209	As above, includes a silty layer	
15&16m	6827-210	As above but dark grey	Early Oligocene
27&28m	6827-211	As above	
33&34m	6827-212	Dark grey-fawn silt	

DISCUSSION:

Most of the samples contained *Subbotina angiporoides* and *Guembelitria triseriata* which confirm an Early Oligocene age. However at 7&8m, *G. triseriata* was found in the absence of *S. angiporoides*. While the absence of a species is not sufficient to indicate a different age, the sparsity of foraminifera in the float suggested Late Oligocene. Early Oligocene marine material located nearby at Fred's Landing near Tailem Bend (Lablack, 1991) & Land lock Point/Magrath Flat (Lablack & Beecroft, in prep.) have been found to consistently contain prolific planktonic faunas in contrast to Late Oligocene sediments which are generally very poor in planktonic foraminiferal fauna.

Neither of these levels can be recorded as belonging to the Ettrick Formation. The exact stratigraphic identity of this sequence is still under review.

REFERENCES

Lablack, K.L. 1991. Early Oligocene age for limestone from Fred's Landing, south of Tailem Bend. South Australia. Department of Mines & Energy. Report Book 91/56.