

DEPARTMENT OF MINES

SOUTH AUSTRALIA

GEOLOGICAL SURVEY
BIOSTRATIGRAPHY DIVISION

MICROPALAEONTOLOGICAL EXAMINATION OF
OBSERVATORY HILL BEDS

by

Barry J. Cooper,
PALAEONTOLOGY SECTION.

12th April, 1977.

Rept.Bk.No.	77/40
G.S. No.	5866
D.M. No.	522/75
Biostrat.No.	7/77

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Request Submitted: C.G. Gatehouse (19th January, 1977).

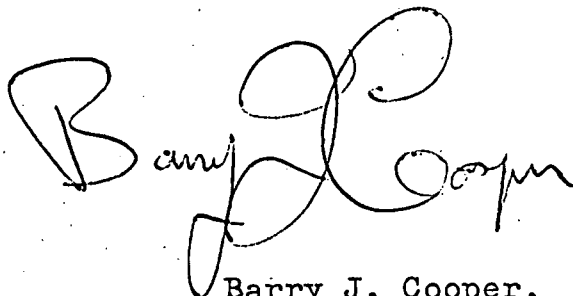
Location of Sample: Locality P451/74 (Gatehouse, 1976),
approximately 6 km west of Observatory Hill,
GILES 1:250 000 sheet.

Stratigraphic Information: Limestone sample collected
from ?Cambrian Observatory Hill Beds about 5 m
below base of type section (Wopfner, 1969).

Micropalaeontological Investigation: A four-kilogram
sample was dissolved in 15% acetic acid in an
effort to recover phosphatic microfossils.

The resulting residue was concentrated
using heavy liquid and electromagnetic separation
techniques before examination. The 2.8 specific
gravity, 1.5 amp. non-magnetic fraction was
examined in detail. A brief cursory examination
of the remaining residue was also made.

No organic material was picked from these
residues. The residues have been retained for
future reference.



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BJC:ST

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REFERENCES

GATEHOUSE, C., 1976: A fossil in the Observatory
Hill Beds. Quart. geol. Notes, Geol. Surv.
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