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COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT
BUREAU OF MINERAL RESOURCES
GEOLOGY AND GEOPHYSICS

RECORDS

1948/78

MICROEXAMINATION OF ROCK SAMPLES FROM
MT. CLARKSON, DAMPIER DOWNS AND MT. ANDERSON
WESTERN AUSTRALIA

by

I. CRESPIN

MICROEXAMINATION OF ROCK SAMPLES FROM
MT. CLARKSON, DAMPIER DOWNS AND MT. ANDERSON
WESTERN AUSTRALIA.

Report No. 1948/78
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4 miles E. of Dampier Downs.

- 733 (1) Pale bluff coloured, fine grained sandstone. No microfossils.
- 733 (2) Whitish micaceous sandstone. No microfossils.
- 733 (3) Pale purplish marl. No microfossils.
- 733 (4) Ochreous sandstone. No microfossils.
- 733 (5) Pale ochreous sandstone. No microfossils.

Dr. Reeves suggests Jurassic age for these samples but there is no microfaunal evidence to support this.

Mt. Clarkson

- 742A Ferruginous sandstone with indeterminate fossils but no microfauna.
- 742B Limonitic sandstone with angular to subangular quartz grains. No microfossils.
- 742C Limonitic sandstone. No microfossils.
- 742D Ochreous sandstone. No microfossils.
- 742E Ferruginous sandstone. No microfossils.

A Middle Jurassic age is suggested for these samples but as in the previous samples, no microfaunal evidence is present to support this age.

8 miles S.E. of Mt. Anderson

- 807H (a) Dark buff coloured sandstone composed almost entirely of angular quartz grains and a little mica. No microfossils.
(b) Dark ochreous fine grained sandstone. No microfossils.
- 807G Limonitic sandstone, with angular quartz grains. No microfossils.
- 807F Limonitic concretions in buff coloured sandstone consisting entirely of fine angular quartz grains.
- 807E Dark reddish, ferruginous sandstone with fragments of indeterminate fossils, but no microfauna.
- 807D Ferruginous sandstone. No microfossils.
- 807C Coarse ferruginous sandstone. No microfossils.

807B

Ferruginous rock with fragments of indeterminate brachiopods. Portion of the matrix is composed almost entirely of brown ovoid to flattened, limonitic pellets.

807A

Ferruginous sandstone with fragments of brachiopods but no microfossils.

This series of rocks from Mt. Anderson are regarded by Dr. Reeves as belonging to the Upper Ferruginous zone of the Permian, specimen A being the lowest in the series. No microfossils are present to confirm this and the brachiopods are too fragmentary for determination. These specimens form part of a larger collection sent to Dr. Teichert.

COMPLETE LIST OF FOSSILS DETERMINED FROM SAMPLES

FR. 22 AND FR. 33.

FR22

N. of Twin Bore, on East end of Nura Nura ridge.

Brachiopoda: Goniatites pratti,
 fragment if ? Spirifer

FR33

1 mile S. of Montgomery's Bore, on Track into Paradise
 from main road, 15 miles from Upper Liveringa Station.

Gastropoda: Hellerophon sp.
 ? Ptychomphalina

Ostracoda: Cavellina cf. kulnuraensis
 cf. Knightina

Dr. Teichert stated that he was unfamiliar with the species of gastropoda.

J. Crespin

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CANBERRA, A.C.T.

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