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### COMMONWEALTH OF AUSTRALIA

# DEPARTMENT OF NATIONAL DEVELOPMENT BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

**RECORDS** 

1950/48

REPORT OF MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM THE 16 MILE GOVERNMENT BORE
WEST OF ALICE SPRINGS, NORTHERN TERITORY

by

I. Crespin.

### REPORT OF HICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM THE 16 MILE GOVERNMENT BORE. VEST OF ALICE SPRINGS, NORTHERN TERRITORY.

# Record No. 1950/48

Seven samples were received from the above bore, 16 miles west of Alice Springs and were forwarded for examination by Ur. H.A. Havby of Zinc Corporation Ltd. These samples came from a bore in which lignite was encountered between the depths of 600 and 500 feet. Only three of them were marked with definite depths; the others were collected from dumps. The majority of the samples contained no microfessils.

A detailed description of the samples is as follows :

- A. Specimena lobelled with depths.
- 580-590 feet. Bright green, glauconitic miltetone with fragments of fine grained dolomite containing some clay and a few grains of clear, angular quarts. No microfosmile.
- 600 feet. Fine to coarse angular quarte grains. No microfonsile.
- 640 fcet. Fine siltatone with angular quartz grains and carbonaceous fragments. No microfoosil.
  - B. Macellaneous samples.
- 1. Lignite.
- 2. "Chips of strata from various depths, accumulated by driller on top of 64 gallon drum at bore".

Fragments of gypsum, dark gray siltatone and numerous opherical bodies referred to radiolaria, fragments of molluscan shells and an ostracod.

3. "Odd pieces of puggy conglomerate found amongst lumps of lignito sludge. Depth unknown".

Sample, then washed, similar to 580-590 feet.

## Note on the Samplon

It is suggested that the samples are most probably of Lover Cretacous age. The glauconitic material is similar to that found in the lover part of the Lover Cretaceous in the Great Artesian Basin.

The only cample which can be correlated with material previously examined from the area is No. 2. It contains numerous opherical bedies which are referred to radiolaria and is similar to the sample examined from the depth of 200-250 feet in a bore on Bondoprings Station, 16 miles west of the 16 mile Government Bore, reported upon for Zinc Corporation Ltd. on 8th September, 1948.

Redicloria are common in the Lower Cretaceous deposits in the Great Artesian Basin and in the North-West Basin, Western Australia.

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