COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

RECORDS

1952/40

MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM BORES IN THE GREAT ARTESIAN BASIN OF N.S.W., SUBMITTED BY THE WATER CONSERVATION AND IRRIGATION COMMISSION OF N.S.W.

by

I. Crespin

MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM BORES IN THE GREAT ARTESIAN BASIN OF NEW SOUTH WALES SUBMITTED BY THE WATER CONSERVATION AND IRRIGATION COMMISSION OF NEW SOUTH WALES

by

I. Crespin

RECORDS 1952/40

Bore No. 8269, Estate of F.E. Body "Bundemar" Trangie, N.S.W.

Samples submitted from this bore were taken from the depth of 25 feet down to 475 feet. A synopsis of the lithology of the samples after washing, is as follows:

25 feet- 75 feet.	Sandstone
100 feet.	Sandy siltstone
125-150 feet.	Sandstone
175-325 feet.	Sandy siltstone
350 feet.	Sandy siltstone with carbonaceous particles.
375 feet.	Fragments of calcite and grey limestone
399 feet.	Sandy siltstone similar to 175-325 feet.
400 feet.	Dark grey to black carbonaceous shale with abundant particles of coal with indeterminate plant remains.
425 feet.	White sandstone
450 feet.	White sandstone
485 feet.	Fine grit.

Note on the samples

No foraminifera were present in the samples. The sandy siltstone from 175 feet down to 325 feet is similar to that found in many of the bores in the Great Artesian Basin. It is uncertain whether the bed of coal with indeterminate plant remains at 400 feet is Lower Cretaceous or Jurassic.

Bore No. 8274, R.W. Collett, "Iona", Mogo Forest, Dubbo, N.S.W.

The seven samples received from this bore were taken from the depth of 25 feet down to 200 feet. They all consisted of sandstone and no fossil evidence was available to suggest an age for them.

Bore No. 2875 C.L. Sanderson, "Woolingar" Coonamble, N.S.W.

Three samples submitted from this bore were taken at the following depths, 515-525 feet, 575-580 feet and 625-630 feet. The description of these samples given below is based on washings.

515-525 feet.	Grey to black, carbonaceous shale
575-580 feet.	Grey to black carbonaceous shale with abundant fragments of coal showing indeterminate fragments of plant remains.
625-630 feet.	Similar to 575-580 feet.

The samples all consisted of numerous particles of coal with fragmentary remains of indeterminate plant remains, similar to that found at 400 feet in Bore No. 8269. It is uncertain whether the age of the beds are Lower Cretaceous or Jurassic.

Bore No. 8277, E. Jones, "Willoughby", Narromine, N.S.W.

Seven samples were submitted from this bore and were taken from the depth of 25 feet down to 175 feet.

All samples were unfossiliferous but an interesting feature of them is the occurrence of a basaltic rock at the depths of 50, 75 and 100 feet. Tertiary basalts are known from localities beyond Narromine and a Jurassic basalt is recorded from near Dubbo. No laboratory tests have been made to determine whether the present basalt specimens can be correlated with either of these basalts.

The bore passed through the basalt into sandstone which were present from 125 feet down to 175 feet.