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COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT BUREAU OF MINERAL RESOURCES GEOLOGY AND GEOPHYSICS

RECORDS:

1948/13

MICROPALAEONTOLOGICAL EXAMINATION OF ROCK SAMPLES FROM THE KIMBERLEY DISTRICT, WESTERN AUSTRALIA, COLLECTED BY DR. FRANK REEVES.

by

I. Crespin

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MICROPALABATYLOGICAL SEAMINATATE OF ROCK BAMPLES

PROM THE KILLERIAN DISTRICT. STATEM AUSTRALIA.

COLLEGE W. Dr. FRAME RESIDES.

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No. 615. Dusty Dore, 10 miles north-west of Christmas Creek Station.

Black, miceceous, curbonaceous shale and grey sandstone with foreminifers, crinoid ossicles, brachioped spines, bryozen and ostraceds.

Foreminifere: Armodiseus ef. nitidus Parr.

Notrema minodise ef. scieuls Parr.

Frithlening telepart.

Colorer a serven densie Creenin.

errobijo especializaci errospen.

Pronicularia Godisanii Towchin.

DEVOLUTE Streblotryng marmiopensis Eth.

cf. Covelling. CONTROCKS: cf. Icaldia.

Prom riscial meries at mass of mount Willard. Fool Renne. Burf coloured, calesreous sittatione. No organisms. No. 621.

No. 624. From Clacial Series in sorge & mile north of Mount Smith. Poole Kange. Calearoous sandstone. No organisms.

No. 626. 3 miles north-vost of Hount Hillard, Poole Rence. Limonitic sendstone, combining plent remains, chiefly imictorizate.

> ef. Moseovievie. ci. Generomo atarila.

HORSE ON SHE SAVISARS.

No. 615 comes from an unknown depth in Dusty Bore near Christmas Creek Station, which is about 90 miles south-east of Herrian Homostead. The sample contains an assemblage of Fermian microfossile similar to that found in the Merrima Bore, between the depths of 39 feet and 825 feet and in similar dark grey to black shales and sandstones. The formulaifers are similar to those found in the Merrima Bore from 39 feet down to 424 feet with the exception of Calcitornella which/absent in the Dusty Bore sample. The Merrima Bore foreminifera are correlated with the Rura Rura limestone (see Crespin, Foreminifers in the Fermion Rocks of Australia, 1947), which is the equivalent of the Callytherra limestone of the mooremel Area.

In my report on the samples from the Kerrime Bore made on February 29th, 1940, the correlation of the fossiliferous beds was made with the Nooncambah Series but further work on the rocks of the area proved that the correlation should have been with the Nura Bura limestone which contains the restricted foreminiferals genus Calcitornello.

The bryozogn <u>Strebiotrype margionensis</u> is widely distributed in the Pormian rocks of Testern Australia and is found in rocks referred to the Kooncanbah Series and the Callytharra limestone.

Nos. 621 and 624 contain no fossil evidence to indicate The glaciel beds from which these pebbles came are probably referable to the Grent Range Series of Rade.

No. 626 contains poorly preserved plant remains in limon-itic sandstone. Two specimens are referred respectively to cf.

/is

Gloscopteris and cf. Generamopteris. Specimens were forwarded to Dr. Walkom, Australian Museum, Sydney, for determination and a copy of his reply is attached. The plants are Permian in age and most probably belong to the Lower Ferruginous Series of Wade.

& Crespin

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Commonweelth Polecontologist.

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