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COMMONWEALTH OF AUSTRALIA

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DEPARTMENT OF NATIONAL DEVELOPMENT  
BUREAU OF MINERAL RESOURCES  
GEOLOGY AND GEOPHYSICS

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**RECORDS:**

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MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM BORE L.O. ON THE  
WARATAH GYPSUM LEASES, PENONG, NORTH OF THE EASTERN SHORES OF  
FOWLER'S BAY, SOUTH AUSTRALIA

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by

I. Crespin

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MICROPALAEONTOLOGICAL EXAMINATION OF SAMPLES FROM BORE L.O.

ON THE WARATAH GYPSUM LEASES, PENONG, NORTH OF THE  
EASTERN SHORES OF FOWLER'S BAY, SOUTH AUSTRALIA.

Report No. 1948/10.

27 feet 6 inches - 30 feet. Calcareous sandstone containing calcareous algae, foraminifera and mollusca. All forms have been rolled and polished and cannot be determined even generically.

Plantae: Lithothamnium ramosissimum.

Foraminifera: Quinqueloculina seminulum, Q. vulgaris, Triloculina striatotriginula, T. tricarinata, Spiroloculina limbata, Clavulina multilocamerata, Cribrobulimina polystoma, Textularia sagittula, Guttulina irregularis, Pyrulina sp., Discorbis acervulinoides, D. cycloclypeus, D. dimidiata, D. globularis, Anomalina sp., Peneroplis planatus, Marginopora vertebralis, Elphidium rotatum, E. crispum, E. cf. adelaidensis (juv).

48-57 feet. Calcareous sandstone with poorly preserved calcareous algae, foraminifera and ostracoda.

Plantae: Lithothamnium ramosissimum.

Foraminifera: Quinqueloculina subpolygona, Q. costata, Triloculina striatotriginula, Sigmolina australis, Cibicides refulgens, Discorbis acervulinoides, D. opercularis, D. dimidiata, Marginopora vertebralis, Elphidium rotatum, E. crispum.

Ostracoda: Cythere sp.

57 feet. Whitish calcareous sandstone with foraminifera.

Foraminifera: Sigmolina australis, Discorbis acervulinoides, D. dimidiata, Cibicides refulgens, Marginopora vertebralis, Elphidium crispum, E. cf. adelaidensis (juv.), E. sp.

62 feet. Cream coloured calcareous sandstone with poorly preserved foraminifera and ostracoda.

Foraminifera: Sigmolina australis, Triloculina trigonula, Guttulina lactea, Discorbis cycloclypeus, D. margaritiferus, Cibicides refulgens, Streblus beccarii, Elphidium rotatum, E. sp.

Ostracoda: Loxococoncha australis.

Notes on the Samples.

All samples from the depth of 27 feet down to 62 feet in Bore L.O., Penong, contain a foraminiferal assemblage which is typical of comparatively warm, shallow water conditions and are most probably, Pleistocene in age. Marginopora vertebralis and Peneroplis planatus are indicative of such conditions, and are found in all beach deposits along the shores of the Great Australian Bight and along the coast of Western Australia.

These samples can be correlated with those from 22 feet down to 50 feet in Bore No. 8, Penong.

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