

60/999

1952
12-3-77

60/999

DEPARTMENT OF MINES
SOUTH AUSTRALIA

PALAEONTOLOGICAL EXAMINATION OF MATERIAL

Locality: County Gawler
Hundred Pt. Gawler 1 1/2 miles northeast of
Section 574 Lower Light.

Details: Collected from bore, outcrop etc.

L.W. Hein, Bore 1

Depth 0 - 230 feet.

Information required: Palaeontological examination

Submitted by: E. O'Driscoll

Address: Department of Mines

Date: 22/2/60

PALAEONTOLOGIST'S REPORT

<u>Formation</u>	<u>Depth (feet)</u>	<u>Thickness (feet)</u>
Recent to Pleistocene units	0 - 200	200
?Plio.- Pleistocene sands	200 - 217	17
Pliocene beds (Hallett Cove Sandstone - Dry Creek Sands)	217 - 224	7
Port Willunga Beds (lower Miocene, Batesfordian)	224 - 230	6 +

Pleistocene mottled clays extend down to 200 feet.

Green to yellow unfossiliferous sands between 200 and 217 feet are fine to coarse-grained and well-graded.

The top of the Pliocene beds, at 217 - 218 feet, consists of hard brown sandstone, ferruginous and slightly calcareous, with a few poorly preserved pelecypod fragments. A cream to brown shell bed between 218 and 224 feet contains abundant fragments of Ostrea sp. in pebbly sand and calcareous sandstone. Foraminifera are limited to occasional Ammonia beudanticii.

The sample 224 - 230 feet contains some Ostrea fragments and gravelly sand as above but is mostly grey limestone, calcarenitic, bryozoal, and slightly glauconitic. The microfauna has

Datesfordian affinities and includes Valvulinaria trinucleata,
Gypsina howchini, Operculina victoriensis and Elphidium chapmani.

J. M. Lindsay.

J. M. Lindsay
PALAEONTOLOGIST

JML:AGK
4/4/66