

Sherbrook Group (Upper Cretaceous) 4150-9660'

Curdies-Paaratte (Undifferentiated) 4150-7137'

4150-7045' Sandstone interbedded with occasional shale beds: sandstone is quartzose, fine to very coarse-grained, pyritic and slightly carbonaceous, subangular to subrounded, predominantly unconsolidated with occasional fragments of hard silty-fine grained sandstone being present. Thin interbeds of calcareous, hard fine-grained sandstone occasionally occur throughout the interval. The occasional and "rare" thin beds of shale present are brown to light grey, carbonaceous, slightly micaceous and brittle to soft.

7045-7051 Shale: medium grey to grey-brown, carbonaceous, moderately hard, non calcareous, and slightly pyritic.

7075-7137' Sandstone: quartzose, light tan, very fine to medium-grained with occasional coarse grains, calcareous, slightly glauconitic, and subangular to subrounded.

Belfast Shale 7137-7310'

7137-7250' Shale: medium grey, non calcareous to slightly calcareous silty, medium hard, carbonaceous and slightly pyritic.

7250-7258' Sandstone; quartzose, fine to medium-grained, subangular to subrounded, calcareous cement, slightly pyritic and carbonaceous.

7258-7310' Shale and sandstone: Sand is quartzose, clear, fine to medium grained, and subrounded to well-rounded. Shale is grey, carbonaceous, slightly micaceous and pyritic.

Belfast-Flaxmans (Undifferentiated) 7310-9372'

7310-9372' Sandstone: quartzose, white to light grey, fine to coarse-grained, unconsolidated to hard. Predominant increase in calcareous matrix. Occasional interbeds of thin hard dark grey slightly chloritic and carbonaceous shale present. The sandstone also has scattered lithic (siliceous) grains.

Waarre 9372-9660'

9372-9660' Conglomerate: siliceous, very coarse to gravel sized imbedded in fine grained very calcareous sandstone matrix, very hard and impermeable.

Otway Group (Lower Cretaceous) 9660-10477'

9660-10477' Sandstone: lithic (siliceous and basic-olivine, chlorite) very fine to fine-grained, and hard. Sandstone fragments have slightly calcareous to siliceous cement and are slightly carbonaceous and micaceous. Occasional thin interbeds of dark grey to black hard micaceous carbonaceous and pyritic shale present.

(4) Generalized Stratigraphy of the Otway BasinPaleozoic Rocks

Paleozoic sediments consisting of marine and non-marine metasediments, metamorphics, and intrusive and extrusive igneous rocks are believed to comprise "economic basement" within the Otway Basin.

In the Otway Basin of Mesozoic-Tertiary age, four onshore wells drilled into Paleozoic strata (Ferguson's Hill-1, Pretty Hill-1, Kalangadoo-1 and Casterton-1). These wells found the Paleozoic rocks to be unproductive and non-prospective for hydrocarbons. Paleozoic strata were not encountered in Prawn A-1.