



SPERM WHALE HEAD - I

WELL ELEMENTARY REPORT

SPERM WHALE HEAD - I

(W417A)

W417A

SPERM WHALE HEAD - 1

OR

(BOOLE POOLE - 1)

PARISH OF BOOLE POOLE.

Bore 1.

Locality.—Sperm Whale Head, 10 miles south-south-east of Bairnsdale.

Position.—From Greenhill Point, 10½ chains on a bearing of 91°. Surface level, 10 feet.

The following formations were encountered at the depths mentioned:—

At 0'—sand; 59'—clay; 103'—sand; 214'—silty sand; 232'—micaceous, shelly silt; 274'—hard band; 274' 6"—silty sand; 230'—fossiliferous, sandy marl; 436'—fossiliferous marl; 477'—soft, sandy marl; 590'—fossiliferous marl; 610'—polyzoal limestone; 633'—limey marl; 677'—limestone with hard bands; 720'—polyzoal limestone; 739'—hard limestone; 742'—soft limestone; 910'—fossiliferous marl; 976'—soft marl; 1,019'—fossiliferous marl; 1,193'—marl; 1,213'—fossiliferous marl; 1,262'—greenish, sandy marl; 1,354'—grey fossiliferous marl; 1,363'—white limey marl; 1,373'—grey fossiliferous marl; 1,418'—soft limestone; 1,425'—grey marl; 1,440'—limestone; 1,449'—grey fossiliferous marl; 1,507'—soft limestone; 1,523'—grey fossiliferous marl; 1,656'—grey fossiliferous marl with thin bands of limestone; 2,107'—grey marl; 2,164'—grey marl with thin bands of limestone; 2,183'—grey marl; 2,241'—sticky brown marl; 2,356'—light green marl; 2,413'—brown marl; 2,432'—light green marl; 2,487'—brown marl; 2,523'—light brown glauconitic marl; 2,536'—glauconitic sand; 2,549'—glauconitic sand and pyrites; 2,561'—grey sand and hard pyrites; 2,562'—glauconitic sand; 2,565'—very fine brown micaceous sand; 2,681'—fine grey sand with occasional thin bands of coarse sand; 2,722'—coarse grey sand; 2,727'—micaceous grey sand; 2,729'—brown coal; 2,790'—grey clay; 2,799'—brown coal; 2,801'—grey clay; 2,824'—grey sand; 2,830'—grey pyritic sandstone, slightly calcareous; 2,831'—grey clay; 2,853'—sandy clay; 2,862'—white sand; 2,872'—grey cemented sand; 2,902'—white clay; 2,903'—brown sandy clay; 2,917'—very coarse conglomerate; 2,946'—mudstone; 2,949'—coarse sand and gravel; 2,964'—blue clay; 2,966'—grey sandstone; 2,967'—blue clay; 2,975'—pyritic mudstone; 2,979'—blue clay; 3,020'—grey felspathic sandstone; 3,023'—grey mudstone; 3,044'—grey mudstone with carbonaceous bands; 3,049'—grey felspathic sandstone; 3,071'—mudstone with occasional bands of sandstone; depth of bore 3,111 feet. Water was struck at 2,949 feet.

The Commonwealth Palaeontologist reports the following sequence:—

Upper Pliocene, 60' to 170'; Lower Pliocene (Kalimnan), 190' to 477'; Upper Miocene, 500' to 560'; Middle Miocene, 590' to 1,210'; Lower Miocene, 1,230' to 2,161'; Upper Oligocene, 2,183' to 2,565'; Lower Oligocene, 2,570' to 2,964'; Jurassic, 2,966' to 3,110' (last sample).

SUGGESTIONS RE CORING AND SAMPLING PROGRAMME

DUCK BAY NO. 1. WELL.

In Boole Poole No. 1. Bore (Sperm Whale Head), the following sequence occurs between 1250 feet and 2970 feet.

- 1250-1554: polyzoal limestone and marly limestone.
1554-2536: light brownish grey foraminiferal marl, often fairly tight.
2536-2565: hard light grey glauconitic sandy marl (base of Lakes Entrance Formation).
2565-2684: dark brown micaceous clayey sands and sandy mudstone, glauconitic towards the top, carbonaceous towards the base.
2684-2964: sands, clays, and brown coals (Lalrobo Valley Coal Measures).
2964-2970: arkose, mudstone, etc. (Strzelecki Group).

The interval 2565 feet to 2684 feet represents transition beds between the Lalrobo Valley Coal Measures and the Lakes Entrance Formation and is predominantly marine. It would be appreciated if as much of this interval as possible could be cored in the adjacent Duck Bay No. 1. Bore.

Furthermore, water was encountered at 2949 feet in Boole Poole No. 1. Bore, in sands, but no other information regarding this occurrence is available. Any data that could conveniently be obtained regarding yield and water quality from this level would be greatly appreciated.

B. Hocking

B. HOCKING,
8.1.1964.

SUGGESTIONS RE CORING AND SAMPLING PROGRAMME

1939
 37° 58' 00" S
 147° 42' 20" E
 Abandoned Dry Hole
 VALVE OIL WELLS

DUCK BAY NO. 1. WELL.

In Boole Poole No. 1. Bore (Sperm Whale Head),
 the following sequence occurs between 1250 feet and
 2970 feet.

- | | |
|-------------------------------------|---|
| <u>381.0 m</u>
1250-1554: | polyzoal limestone and marly limestone. |
| 1554-2536: | light brownish grey foraminiferal marl,
often fairly tight. |
| 2536-2565: | hard light grey glauconitic sandy marl
(base of Lakes Entrance Formation). |
| 2565-2684: | dark brown micaceous clayey sands and
sandy mudstone, glauconitic towards the
top, carbonaceous towards the base. |
| 2684-2964: | sands, clays, and brown coals (Latrobe
Valley Coal Measures). |
| <u>905.2 m</u>
<u>2964-2970:</u> | arkose, mudstone, etc. (Strzelecki Group). |

The interval 2565 feet to 2684 feet represents transition beds between the Latrobe Valley Coal Measures and the Lakes Entrance Formation and is predominantly marine. It would be appreciated if as much of this interval as possible could be cored in the adjacent Duck Bay No. 1. Bore.

Furthermore, water was encountered at 2949 feet in Boole Poole No. 1. Bore, in sands, but no other information regarding this occurrence is available. Any data that could conveniently be obtained regarding yield and water quality from this level would be greatly appreciated.

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 8-1-1964