

D.M. 1060/52  
E. & W.S. 3860A/49  
B.M. 17  
Rept Bk No 37/115

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**DEPARTMENT OF MINES  
SOUTH AUSTRALIA**

UNDERGROUND WATER PROSPECTS, HD. PENOLA

-E. & W.S. DEPARTMENT-

by

F.E. ROBERTS

ACTING CHIEF MECHANICAL & BORING ENGINEER.

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TO THE DIRECTOR OF MINES:

In response to a request from the Engineering and Water Supply Department, that a bore be constructed at Penola, to provide a water supply for the township, Driller Pirie operating Plant No 3, commenced operations on 30-4-54 and drilling was concluded at 175' on 10-5-54.

Water cut at 7 fet and when tested at 12' yielded 1000 gph.

Bands of sand were encountered between 12'6" and 50' and to prevent the intrusion of sand, the bore was lined with 8" casing to 113'.

Gambier limestone was struck at 112' and persisted to 175' at which depth drilling was discontinued,

A supply in the vicinity of 14000 GPH was required, and the original intention was to sink a second bore, should the pumping capacity of the first bore not meet this requirement.

Using a centrifugal pump, the bore was pum-tested for 4 hours at the rate of 8500 GPH for a draw down of 16' however, as the owner of the la nd in to which the water was flowing was complaining, the test was stopped.

Mr. Bates of the E. & W.S. Dept, when advised of details of the test, said that the results were quite satisfactory and intimated that a second bore would not be required.

A cost statement will be submitted as an appendix to this report, when cost figures are available.

<u>DEPTH OF BORE</u>	<u>CASED TO</u>	<u>STATIC LEVEL</u>	<u>WATER SUPPLY</u>	<u>DRAWDOWN</u>
180'	112'11"(8")	4'	8500GPH	16'

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