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4th February, 1957

MEMORANDUMPOSSIBLE WATER SUPPLY AT R. BEZZANT'S
PROPERTY, SOUTH ARM

Mr. Bezzant desires to supplement his present water supply for irrigation purposes, obtained principally from surface run off, and has enquired as to the possibility of obtaining underground water.

This property fronts onto Ralphs Bay. It is approached from South Arm Post Office by way of Opossum Bay road for one mile to a bye road, which deviates north-easterly to the farm, in a further distance of $\frac{1}{2}$ a mile.

The area is underlain by Permian siliceous mudstones and these rocks are largely covered by unconsolidated Tertiary sands, ranging up to 20 feet in thickness.

Since the basement mudstones are not considered as a suitable aquifer, boring for water in these rocks is not recommended.

Small, but unreliable, water supplies can be expected in the lower layers of sand, immediately above the mudstone bedrock. The suitability of such water for irrigation purposes cannot be predicted and, owing to the small thickness of sands, the quantities obtainable would vary with reasonable conditions.

The quickest and cheapest method of testing these water supplies is by means of hand boring plant, with the use of steel casing. Wells, excavated with the use of suitable sized concrete piping for casing, is another method now used.



(F. Blake)
GEOLOGIST.

The Director of Mines,
Department of Mines,
HOBART.