

UNPUBLISHED REPORT 1967/13

A water bore at Riana

by M. J. Longman

A water bore on L. Chellis' property at Riana was visited on 9 and 10 May to determine, and if possible, increase the yield.

9 May — Initial test

Water level – 25 feet

Hole depth – 52 feet

Pumping rate – 160 gals/hour

Hole dry in 40 minutes

The hole was surged with detergent, which removed considerable quantities of sand and clay, and again tested.

Hole depth increased to 59 feet

Pumping rate – 100 gals/hour

Hole dry in 20 minutes

Water recovery rate – 1 foot/5 minutes

The hole was then blasted with gelignite at 45 feet and 55 feet depth, surged and cleaned again, and left to recover overnight.

10 May

Water level – 25 feet

Hole depth 59 feet

Pumping rate – 100 gals/hour

Hole dry in 20 minutes

Water recovery rate – 1 foot/5 minutes

From the above results the bore is not capable of yielding more than 50 gals/hour and cannot be increased by development. This is insufficient for Mr Chellis' needs and suggests that the original water testing was inadequate. Deepening of the bore will only penetrate impervious basement rocks and will not appreciably increase its yield.

[15 May 1967]