

DEPARTMENT OF MINES, SOUTH AUSTRALIA.REPORT ON GROUNDWATER PROSPECTS, WARRAWEENA STATION.L.E. NICHOLLS.

Two sites for drilling for supplies of underground water have been selected on Waraweena Station; the locations of these are shown on the accompanying geological plan. ^{110 53-273} A third site remains to be inspected.

Areas in which further supplies of stock water are required are situated south and east of the homestead and are underlain by fine grained slates, sandy in part, and slates with thin dolomites and the prospects of encountering large supplies are therefore not promising. Sites were selected for boring in localities as indicated by the owner, having regard to geological features and catchment.

Site 1. is located in hilly country at the junction of two creeks two miles south of Warraweena H.S. Boring will penetrate a thin cover of gravels and then slates of the Tapley Hill (?) series which strike east-west and dip northerly at 50°. These beds consist predominantly of slates with thin fine sandy bands. Spring waters which issue from slates further upstream are reported to be "quite good" for stock.

It is recommended that a bore on this site be drilled to a depth not greater than 150 ft. The site is readily accessible to a boring plant.

Site 2. is located on a small open flat in otherwise rugged terrain eight miles east of the homestead and near the eastern boundary of the property. The bore site is underlain by gently to flat dipping purple shales with minor dolomites and though the shales are expected to be rather impervious it is anticipated that the dolomite bands may yield a satisfactory supply of water.

At present the site is quite inaccessible to a boring plant but track construction is in progress.

R.K. Johns
R.K. JOHNS.
GEOLOGIST.

No.	Amendment	Exd.	Date
<p align="center">UNDERGROUND WATER SURVEY WARRAWEENA STATION L.E. NICHOLLS</p>			
Approved	Passed	Drn. R.K.L.	Scale: 53/11/55
Director	C.D.	Tcd. R.K.	53-273
		Ext.	Cc
			Date: 25/11/55

S. A. DEPT. OF MINES

To accompany report by R.K. Johns. Geologist.

