

Director
RB 36/48

DEPARTMENT OF MINES - SOUTH AUSTRALIA.

UNDERGROUND WATER INSPECTION OF WILKINSON PROPERTY, PT. SEC. 5006,

HD. MACCLESFIELD.

(FOR MR. J.A. FLAVEL, 211 RUNNELL STREET, ADELAIDE).

An inspection of the property and environs was carried out for Mr. J.A. Flavel with the permission of the present owner, Mr. Wilkinson. The property is situated about one mile west of Mt. Barker and occupies about 1 1/2 acres on the eastern margin of Sec. 5006 Hd. Macclesfield. A water supply is required for garden and domestic purposes.

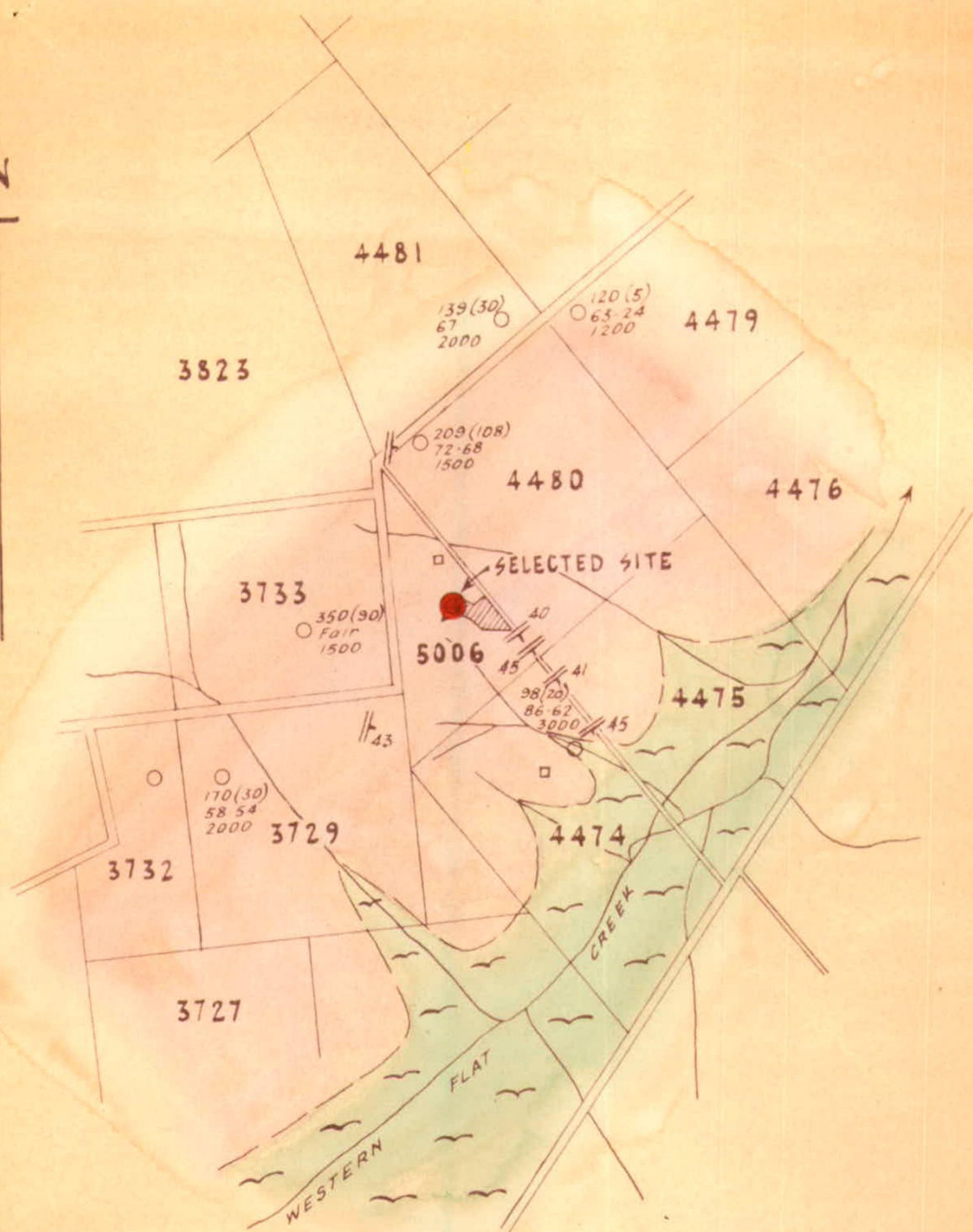
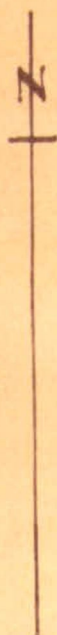
TOPOGRAPHY & GEOLOGY: The property, which lies near the crest of a high ridge, slopes gently north towards a tributary gully of Western Flat Creek. The underlying sediments are slates, schists and minor quartzites of the Sturtian Series forming the Western limb of a small syncline. Local faulting and crush zones occur within this syncline and the presence of a fault zone at the north end of this property is indicated by strike variations in the vicinity, though the absence of outcrops precludes the exact location of this zone.

HYDROLOGY: Bore records indicate that moderate supplies (1000-1500 g.p.h.) of underground water occur in the joint systems of blue slates and minor quartzites throughout the syncline at depths ranging from 100 to 350 feet (depending largely on elevation of the selected site). Greater supplies are available where fault zones have improved the storage capacity of the sediments. The quality of supplies obtained in this area varies between 50 and 100 g.p.g.

PROSPECTS & RECOMMENDATIONS: A bore site has been selected on the northern corner of the property with a view to penetrating the fault zone in this vicinity. Supplies of a quality suitable for garden and domestic use should be obtained between 100 and 200 feet. Full casing of the bore will probably be necessary and fair drilling conditions should prevail.

MICROFILMED

J.B.A. McKellar
J.B.A. McKELLAR.



LEGEND

WILKINSON PROPERTY

SELECTED SITE

EXISTING BORES

SOAKAGE WELLS

ALLUVIUM

SLATES, SCHISTS & MINOR QUARTZITES

DEPTH & WATER LEVEL
SALINITY (GPG)
SUPPLY (GRH)



170 (30)
58-54
2000



To accompany report by J McKELLAR

S. A. DEPT. OF MINES

UNDERGROUND WATER SURVEY

H^D MACCLESFIELD

PT SECTION 5006

Scale 20 Chains to 1 in.

S 822

Hcl.

Date 15-3-53

Approved	Per	Dir	CEC.	DRM
	AG		RR	
Director	C.D.	Exc.		