

DEPARTMENT OF MINES
SOUTH AUSTRALIA

GEOLOGICAL SURVEY
ENGINEERING DIVISION

WATER WELL SURVEY
PORTION OF HD. ADELAIDE

by

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Rept. Bk. No. 77/108
G.S. No. 5927
Eng. No. 76/84
D.M. No. 236/74

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ABSTRACT

A water well survey of the eastern portion of the Hundred of Adelaide was carried out and 320 water wells were visited.

The groundwater is obtained predominantly from fractured hard rocks, and consequently there is a large variation in well yields and water quality. In general, well yields are low and many landowners east of Norton Summit are building dams rather than drilling for groundwater.

The groundwater is used mainly for irrigation of orchards and market gardens, stock supplies and domestic purposes. A large proportion of the area, however, consists of undeveloped natural bushland.

No groundwater pollution was detected during the survey but increasing residential development in the area may cause problems if no provision is made for systematic effluent disposal.

INTRODUCTION

As part of the groundwater assessment programme of the Mt. Lofty Ranges, a field survey of water wells has been completed in portion of the Hundred of Adelaide. The survey commenced in January, 1977 and was completed in June, 1977.

The survey was carried out over the eastern portion of the Hundred (see Fig. 1). The western edge of the survey roughly corresponds with the limit of metropolitan urban development.

A number of known wells in the Payneham market gardening area were inspected and all were found to be abandoned. The location and details for these wells have not been included in this report as they will be dealt with in the metropolitan area well survey.

In conjunction with the water well survey, a land use survey was also undertaken (see Fig. 6).

PHYSICAL FEATURES

Topography

The area covered by this survey consists mainly of high hills with steep gorge-like valleys and is bounded to the west by the Burnside Fault. The area west of the Fault consists mainly of gently sloping hills which drop sharply to the Adelaide Plains.

Climate

In general the Hundred has a Mediterranean type climate, that is, cool to mild rainy winters and warm to hot dry summers, with an average annual rainfall of about 800 mm.

The rainfall over the Hundred shows a notable increase eastwards towards the foothills and a rapid increase in the ranges.

The rainfall statistics (annual and average monthly) for Tea Tree Gully, Blackwood and Norton Summit are shown in Figures 2, 3 and 4 respectively.

Surface Hydrology

The main rivers draining the Hundred are the Torrens River and the Sturt River. There are numerous small streams which have been developed consequent upon the uplift and formation of the ranges. These streams flow only for short periods following heavy rainfall.

Land Use

A large proportion of the area is covered by natural bushland (mainly eucalypt), parts of which are recreation and conservation parks.

There is a concentration of orchards and small market gardens in the Montacute, Norton Summit and Upper Sturt areas (Fig. 6).

Grazing of sheep and cattle occurs throughout the ranges.

A number of quartzite quarries (sand and aggregate) are located along the ranges. Subdivision for residential purposes is continuing in the area.

Land use as at June, 1977 is shown in Figure 6.

HYDROGEOLOGY

Aquifers

Groundwater is stored in and moves through joints and fracture systems in the hard rocks. In general, larger supplies are obtainable from more intensely fractured rocks.

Groundwater salinity is generally between 200 mg/l and 1,000 mg/l. Well yields range from 5 m³/day to 700 m³/day. The standing water levels were found to range from ground level to 106.0 m below the surface.

In the area east of Norton Summit most landholders are building dams rather than drilling wells because of the small amount of groundwater available.

Recharge

Groundwater recharge is by downward percolation of rain falling on the area. The amount of recharge will depend not only on the volume of rainfall received by any one area but also on the soil type and on the permeability of

the hard rocks. Recharge would be enhanced adjacent to water courses because of the longer time these bodies contain surface water.

It is expected that where the creeks flow from the hills across the fault scarp, recharge would be enhanced by the increase in permeability of the more fractured rocks.

Well Construction and Equipment

Most existing wells had casing only down to fresh unweathered bedrock, while some wells were almost fully cased to total depth to safeguard against hole collapse. However, a small number were completed open hole with no casing.

Pump jacks are most commonly used and in the more recently drilled wells submersible pumps are generally fitted.

Well Details and Use

During the survey, about 320 wells were located and visited. A further 140 known wells were not located (abandoned and lost, or investigation drilling). The location of all the wells is shown in Figure 5 and the details for each well are given in Appendix I.

Table I shows the main well uses.

TABLE I

<u>Well Use</u>	<u>Wells</u>
Irrigation - Orchard	47
- Market Garden	21
Stock	14
Domestic	75
Other Supply	8
Drainage	13
Non Water Well (e.g. mineral exploration)	82
Spring	15
Abandoned and Disused	137
Not located	50

The orchard and market garden irrigation wells are mainly concentrated in the Montacute, Norton Summit and Upper Sturt areas. The stock wells are found mainly in the Brownhill Creek, Montacute and Norton Summit areas, whilst the domestic wells are fairly evenly scattered over the whole area covered by the survey (see Fig. 5).

Pollution Potential

No evidence of any groundwater pollution was encountered during the survey. Landholders often commented on the excellent quality of water from their wells, despite the large number of septic tanks used throughout the area.

Future land use should be carefully controlled to prevent groundwater contamination from rubbish dumps, piggeries or other forms of industry. With increasing residential development, provision should be made for systematic effluent disposal.

General Comments and Recommendations

Many of the landholders asked if the result of the survey was to meter their wells and impose quotas on them but when the aim of the survey was explained to them, they were happy to supply details.

For future hundred surveys it is strongly recommended that explanatory advertisements be placed in the appropriate local papers, to explain the aims and methods of the survey. This would greatly enhance public relations.

PT:JS

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REFERENCE

SPRIGG, R.C., WHITTLE, A.W.G. & CAMPANA, D., 1951. Adelaide
1-mile geological sheet. Geol. Surv. S. Aust.

APPENDIX I

Water Well Details

Note: Details are tabulated in order of Metropolitan 10 chain series (Fig. 5). The last three digits of the State number refer to the well number within the sheet.

STATE NO. (SHEET J6)	DATE	DEPTH (m)	S.W.L. (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /day)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
754202032	14.6.66	45.70	)	METAL INVESTIGATIONS							
754202033	14.6.66	22.50	)								
754202034	14.6.66	58.80	)								
754202035	14.6.66	34.60	)								
754202036	24.9.67	8.50	6.70	670	6.4	330	Abandoned	6.70	Well	-	-

NOTE : SHEET J6 STATE NO. 754202032

THE FIRST THREE DIGITS REPRESENT THE PLAN NUMBER WITHIN THE HUNDRED (e.g. SHEET J6, PLAN NO. 754)

THE NEXT THREE DIGITS (202) REPRESENT THE HUNDRED

THE LAST THREE DIGITS REPRESENT THE WELL NUMBER, ALLOTTED SEQUENTIALLY WITHIN THAT PORTION OF THE HUNDRED ON THE MAP SHEET

STATE NO. (SHEET K6)	DATE	DEPTH (m)	S.W.L. (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
759202005	25/2/60	54.90	-	550	-	260	Abandoned	15.70	152	54.90	Slate
759202006	26/1/49	20.70	14.00	700	-	160	Stock	25.00	152	25.80	Slate
759202007	24/2/49	46.90	-	715	-	20	Filled In	-	152	8.80	Slate
759202008	- /7/61	115.80	-	2030	-	-	Unable to Locate	-	-	-	-
759202009	10/12/76	118.60	-	575	7.7	160	Irrigation	-	204	12.50	Slate
759202010	16/12/76	18.30	14.00	301	7.4	55	Some Irrigation & Domestic	-	Well	-	-
759202011	10/12/76	28.40	7.60	545	7.2	350	Irrigation and Domestic	-	Well to 6.00 204	6.10	-
759202014	9/12/76	60.96	8.20	460	7.5	55	Domestic	-	152	17.00	Slate
759202015	26/3/73	152.00	106.00	645	6.0	40	Domestic	112.00	-	-	-
759202016	1/8/73	244.90	-	800	7.0	55	Orchard	178.31	152	4.28	-
759202017	28/3/60	43.90	11.60	571	-	330	Unable to Locate	-	204	11.00	Slate
759202020	9/12/76	9.14	4.40	155	7.0	-	Not Used	-	Well	-	-
759202021	9/12/76	24.00	3.00	153	7.1	-	Not Used	-	Well	-	-
759202022	9/12/76	9.20	1.60	535	-	-	Irrigation	-	Well	-	-
759202023	9/12/76	37.80	4.30	416	7.3	200	Irrigation	-	152	-	-
759202024	9/12/76	24.40	7.80	615	7.4	-	Not Used	-	152	6.10	-
759202025	9/12/76	97.00	-	545	7.2	140	Irrigation	-	204	21.60	-
759202026	9/12/76	98.50	-	375	6.8	130	Irrigation	-	204	5.80	-
759202027	9/12/76	36.60	-	630	7.5	130	Irrigation	-	101	-	-
759202028	10/12/76	85.00	-	525	7.6	150	Irrigation	-	152	-	-
759202029	10/12/76	36.60	G.L.	555	7.2	80	Irrigation	-	204	4.00	-
759202030	10/12/76	18.30	5.60	-	-	250	Not Used	-	204	16.50	-
759202031	10/12/76	71.60	5.60	530	7.9	300	Irrigation	-	204	9.14	-
759202032	16/12/76	79.30	-	416	7.3	-	Stock & Domestic	-	152	-	-
759202033	16/12/76	54.90	-	349	7.4	100	Irrigation and Domestic	-	127	18.30	-
759202034	16/12/76	34.20	-	535	7.0	400	Stock and Domestic	-	152	9.20	-
759202035	16/12/76	91.40	-	565	7.0	100	Orchard & Domestic	-	Well to 18.30 152	18.30	-
759202036	16/12/76	-	-	445	8.0	100	Irrigation Stock & Domestic	-	152	48.80	-
759202037	10/12/76	67.00	-	375	8.0	100	Domestic	-	152	12.20	-
759202038	21/12/76	91.50	6.10	-	-	100	Not Used	-	204	85.30	-
759202039	21/12/76	107.00	-	-	-	100	Abandoned	-	204	-	-

STATE NO. (SHEET L5)	DATE	DEPTH (m)	S.W.L. (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		
									DIA. (mm)	DEPTH (m)	SOURCE
763202056	14/8/62	48.20	MINERAL INVESTIGATION								
763202057	6/8/62	46.60									
763202058	21/8/62	58.20									
763202059	1/9/63	-	-	-	-	-	Unable to Locate	-	-	-	-
763202060	30/8/66	45.70	3.00	1320	7.0	30	Unable to Locate	-	-	-	-
763202061	6/11/52	36.00	7.00	1500	-	60	Unable to Locate	19.80 34.50 7.30	152	34.10	Sand Conglomerate
763202062	25/11/52	30.48	5.70	800	-	200	Unable to Locate	20.30	152	20.30	Slate and Phyllite
763202071	5/11/63	91.40	28.00	1014	-	160	Domestic	-	-	-	Slate
763202073	4/1/65	-	-	1101	-	-	Unable to Locate	-	-	-	-
763202079	5/9/66	30.50	-	-	-	-	Well Capped	-	-	-	-
763202080	23/2/77	91.50	-	-	-	-	Not Used	30.20	-	-	Slate
763202092	7/6/65	5.80	-	-	-	-	Drainage	-	-	-	-
763202093	7/6/65	5.80	-	-	-	-	Drainage	-	-	-	-
763202097	11/8/30	45.70	-	-	-	-	Not Used	-	-	-	Sand
763202099	26/10/63	117.40	-	1307	-	320	Not Used	26.50	204	30.50	Slate
763202101	15/12/60	-	-	800	-	650	Unable to Locate	-	-	-	-

STATE NO. (SHEET L6)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	DIA. (mm)	DEPTH (m)	SOURCE
764202001	19/5/66	213.40	68.60	643	-	700	NOT USED	56.70	-	-	Quartzite & Slates
764202002	5/9/52	130.40	-	550	-	300	NOT USED	VARIOUS	152 204	- 4.72	Slate, Sand- stone, Quartzite
764202003	8/10/58	100.60	45.70	1300	-	100	ABANDONED	-	127	-	-
764202004	29/1/52	91.50	45.70	1700	-	100	NOT USED	-	-	-	-
764202005	/3/37	12.20	-	570	-	-	UNABLE TO LOCATE	-	-	-	-
764202006	-	-	-	400	-	-	UNABLE TO LOCATE	-	-	-	-
764202007	30/3/36	7.60	2.40	550	-	270	"	-	WELL	-	-
764202008	29/6/61	45.70	-	886	-	160	"	12.20	152	36.70	Sandstone Quartzite
764202009	18/5/61	54.80	-	-	-	110	DOMESTIC	-	WELL 102	-	-
764202010	11/5/60	54.80	-	-	-	320	UNABLE TO LOCATE	-	-	-	-
764202011	13/1/77	46.90	-	490	7.4	110	ORCHARD	6.10)	127	10.40	-
764202012	12/7/58	87.80	5.20	500	-	120	UNABLE TO LOCATE	42.70) 61.00) 74.70)	127	-	Slate
764202013	26/6/61	42.70	G.L.	286	-	220	"	4.00) 21.30)	152	5.60	Sandstone Quartzite
764202014	17/11/75	94.50	-	530	7.5	160	ORCHARD	VARIOUS	152	5.90	Slate
764202015	4/3/70	42.70	-	645	7.0	-	IRRIGATION	-	NIL	-	-
764202016	26/6/30	85.30	-	-	-	90	UNABLE TO LOCATE	-	-	-	Quartzite
764202017	25/3/53	80.50	-	800	-	20	ABANDONED	-	-	-	Slate
764202018	24/2/77	62.50	-	1055	7.5	80	NOT USED	-	152	-	-
764202020	24/2/77	68.90	-	705	7.3	200	ORCHARD	-	204	17.40	-
764202021	9/10/58	54.80	-	-	-	-	ABANDONED	-	-	-	-
764202022	23/8/51	18.00	-	360	-	-	ABANDONED	-	-	-	-
764202023	4/6/52	122.00	G.L.	720	-	220	NOT USED	VARIOUS	152 102	41.30 53.50	Sandstone
764202024	24/2/77	32.00	-	-	-	120	NOT USED	VARIOUS	152	9.10	-
764202025	/63	82.60	-	-	-	220	NOT USED	31.00 34.10	204	30.50	Slate
764202026	16/2/62	81.40	30.00	600	-	270	UNABLE TO LOCATE	-	-	-	-

STATE NO. (SHEET L6)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA (mm)	DEPTH (m)	
764202027	29/1/65	79.50	-	1044	-	160	ORCHARD	-	127	72.50	-
764202028	16/5/60	77.10	3.0	700	-	90	QUARRY	VARIOUS	204	2.10	SLATE
764202029	1/4/63	17.70	2.4	500	-	35	UNABLE TO LOCATE	13.70	-	-	-
764202030	1/11/63	12.14)									
764202031	4/11/63	5.70)									
764202032	13/11/63	22.50)	FOUNDATION WELLS								
764202033	14/11/63	20.90)									
764202034	23/11/63	9.30)									
764202035	23/2/66	78.90	11.90	555	-	160	NOT USED	-	204	9.10	SLATE
764202036	7/4/48	6.10	-	700	-	-	ABANDONED	-	WELL		-
764202037	1/4/57	4.60	3.60	300	-	-	ABANDONED	-	WELL		-
764202038	3/3/77	102.10	-	645	7.5	270	ORCHARD	-	152	1.0	-
764202039	3/3/77	68.90	9.0	625	7.0	220	ORCHARD	VARIOUS	204	6.20	SLATE, QUARTZ & PYRITE
764202040	/2/36	50.90	-	171	-	110	UNABLE TO LOCATE	14.30	-	-	-
764202041	3/3/77	61.00	-	-	-	-	MARKET GARDEN	-	SPRING		-
764202042	3/3/77	61.00	-	-	-	110	ABANDONED	-	-	-	-
764202043	3/3/77	61.00	-	-	-	-	ABANDONED	-	-	-	-
764202044	3/3/77	84.70	11.60	-	-	-	ABANDONED	48.10 55.50	-	-	SLATE
764202045	3/3/77	-	-	250	-	-	ORCHARD	-	152	-	-
764202046	16/1/59	122.00	FLWS	150	-	200	NOT USED	-	152	97.50	-
764202047	3/5/60	70.70	22.00	350	-	45	DOMESTIC	42.00	152	30.00	SANDSTONE QUARTZITE
764202048	7/4/48	-	-	600	-	-	ABANDONED	-	WELL		-
764202049	7/4/48	-	-	500	-	45	NOT USED	-	SPRING		-
764202050	7/4/48	9.10	2.70	500	-	-	ABANDONED	-	WELL		-
764202051	4/2/61	120.70	71.60	450	-	220	ORCHARD	-	152	-	-
764202052	4/3/70	-	-	345	5.0	-	ORCHARD	-	SPRING		-

STATE NO. (SHEET L6)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
764202053	4/3/70	106.70	-	-	-	10	ABANDONED	-	NIL	-	-
764202054	4/3/70	61.00	-	-	-	-	DRY	-	NIL	-	-
764202055	18/1/77	26.00	19.00	399	7.2	90	ORCHARD	-	152	-	-
764202056	13/1/77	55.10	41.00	-	-	60	NOT USED	-	204	-	-
764202057	4/3/77	64.90	27.00	290	6.0	120	DEMESTIC	-	152	24.0	-
764202058	3/2/77	115.80	20.70	75	6.6	30	ORCHARD	13.72	152	106.70	-
764202059	17/9/77	17.00	2.00	120	7.5	-	NOT USED	-	WELL	-	-
764202060	17/9/77	12.00	2.50	-	-	-	NOT USED	-	WELL	-	-
764202061	17/9/77	17.00	0.20	-	-	20	DOMESTIC	-	-	-	-
764202062	19/1/73	-	-	670	7.5	-	NOT USED	-	SPRING	-	-
764202063	26/3/70	15.20	4.10	830	7.0	-	HOUSE GARDEN	4.60	WELL	-	-
764202064	16/8/71	-	-	290	6.0	-	DOMESTIC	-	SPRING	-	-
764202065	18/1/77	62.50	15.0	270	7.9	220	ORCHARD	-	152	45.70	-
764202066	4/3/70	-	-	170	6.0	-	DOMESTIC	-	SPRING	-	-
764202067	4/3/70	11.30	4.70	645	7.0	50	ORCHARD	-	WELL	-	-
764202068	4/3/70	68.60	G.L.	1170	7.0	220	ORCHARD	45.70 33.00 41.00	152	9.10	-
764202069	13/7/76	45.00	-	550	7.2	110	DOMESTIC	-	124	44.50	SLATE
764202070	13/1/77	51.80	-	-	-	90	ORCHARD	-	75	51.80	-
764202071	13/1/77	64.00	-	630	7.4	90	DOMESTIC	-	152	6.10	-
764202072	13/1/77	8.00	-	-	-	-	DOMESTIC	-	WELL	-	-
764202073	13/1/77	-	-	-	-	-	NOT USED	-	WELL	-	-
764202074	13/1/77	-	-	-	-	20	DOMESTIC	-	WELL	-	-
764202075	13/1/77	-	G.L.	595	7.2	-	STOCK & DOMESTIC	-	WELL	-	-
764202076	13/1/77	9.20	1.00	540	7.0	-	STOCK & DOMESTIC	-	WELL	-	-
764202077	13/1/77	9.20	1.00	333	7.5	-	DOMESTIC	-	WELL	-	-
764202078	13/1/77	51.80	-	620	7.7	90	MARKET GARDEN	-	152	9.20	-
764202079	13/1/77	-	1.00	186	7.5	-	DOMESTIC	-	SPRING	-	-
764202080	1/12/76	98.50	58.00	620	7.2	30	DOMESTIC	VARIOUS	129	72.00	SLATE
764202081	18/1/77	-	36.6	343	5.6	-	DOMESTIC	-	204	-	-
764202082	19/1/77	-	-	179	6.1	-	ORCHARD & DOMESTIC	-	152	-	2

STATE NO. (SHEET L6)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA (mm)	DEPTH (m)	
764202083	19/1/77	91.50	-	-	-	100	MARKET GARDENS & ORCHARD	36.50	152	45.00	-
764202084	19/1/77	36.50	7.70	23	6.2	-	ORCHARD & DOMESTIC	-	-	-	-
764202085	19/1/77	68.50	G.L	1060	7.4	270	MARKET GARDEN	-	152	18.50	-
764202086	19/1/77	7.60	1.00	455	6.6	-	ORCHARD & DOMESTIC	-	WELL	-	-
764202087	19/1/77	70.00	-	-	-	220	ORCHARD	-	152	61.00	-
764202088	3/2/77	61.00	-	550	7.6	40	DOMESTIC	-	204	-	-
764202089	3/2/77	36.60	-	500	8.0	70	ORCHARD	-	152	-	-
764202090	3/2/77	79.20	-	545	7.6	160	ORCHARD	-	152	-	-
764202091	8/2/77	-	3.00	-	-	-	NOT USED	-	204	-	-
764202092	9/2/77	39.60	-	85	6.6	110	DOMESTIC	-	110	39.00	-
764202093	8/2/77	36.60	16.00	104	6.2	-	DOMESTIC	-	204	1.00	-
764202094	9/2/77	85.00	-	176	6.2	220	MARKET GARDEN	-	152	56.00	-
764202095	10/2/77	137.20	-	173	7.0	40	DOMESTIC	-	152	115.80	-
764202096	9/2/77	24.40	-	580	7.08	30	DOMESTIC	-	152	-	-
764202097	24/2/77	76.20	-	755	7.5	30	DOMESTIC	-	NIL	-	-
764202098	24/2/77	67.00	16.00	770	7.6	90	ORCHARD & DOMESTIC	-	152	9.20	-
764202099	24/2/77	6.10	-	-	-	-	DOMESTIC	-	WELL	-	-
764202100	24/2/77	7.00	G.L	-	-	-	NOT USED	-	WELL	-	-
764202101	24/2/77	128.00	-	-	-	90	NOT USED	-	152	-	-
764202102	24/2/77	67.50	-	-	-	40	ABANDONED	-	152	6.10	-
764202103	24/2/77	61.00	42.00	610	7.1	70	DOMESTIC	-	152	-	-
764202104	24/2/77	103.00	-	-	-	60	ABANDONED	-	NIL	-	-
764202105	24/2/77	-	-	-	-	-	ABANDONED	-	NIL	-	-
764202106	24/2/77	55.00	-	615	7.5	220	ORCHARD	-	152	8.00	-
764202107	3/3/77	96.00	-	740	7.0	270	ORCHARD	-	152	1.00	-
764202108	3/3/77	12.20	-	207	6.5	-	STOCK & DOMESTIC	-	WELL	-	-
764202109	10/2/77	72.00	15.00	283	7.0	500	DOMESTIC	48 66	152	24.00	PHYLLITE & QUARTZ
764202110			CARD MISSING								
764202111	3/5/77	68.40	40.20	1960	7.9	330	DOMESTIC	49.00 60.00 66.00	152	45.00	SLATE

STATE NO. (SHEET L7)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA (mm)	DEPTH (m)	
781202001	2/1/47	19.60	-	629	-	160	UNABLE TO LOCATE	12.20 15.20	152	6.00	SLATE
781202002	14/11/46	37.30	-	786	-	160	NOT USED	3.00 27.40 34.10	152	6.00	SLATE
781202003	12/1/77	71.90	-	-	-	220	ORCHARD	-	152	12.20	QUARTZITE & QUARTZ
781202004	9/11/59	145.70	91.00	471	-	20	EMERGENCIES	54.80 137.20	152	3.00	SLATE
781202005	20/12/76	-	5.00	213	7.0	-	NOT USED	-	WELL	-	-
781202006	22/12/76	76.20	-	595	7.7	100	IRRIGATION STOCK & DOME.	-	204	61.00	-
781202007	21/12/76	111.00	2.20	670	7.3	50	NOT USED	-	152	6.10	-
781202008	21/12/76	94.50	8.20	580	7.1	400	MARKET GARDEN	-	152	36.60	-
781202009	20/10/76	60.00	-	500	7.4	-	MARKET GARDEN & DOMESTIC	-	152	-	-
781202010	20/12/76	73.20	1.70	338	8.0	200	ORCHARD & DOMESTIC	-	204	45.70	-
781202011	21/12/76	12.20	-	-	-	-	EMERGENCIES	-	MINE SHAFT	-	-
781202012	21/12/76	-	-	-	-	-	ABANDONED	-	MINE SHAFT	-	-
781202013	22/12/76	25.00	-	333	6.8	150	ORCHARD & DOMES.	-	152	-	-
781202014	20/12/76	12.00	-	312	6.6	200	MARKET GARDEN & DOMESTIC	-	172	7.30	-
781202015	11/1/77	4.60	1.00	485	7.7	-	NOT USED	-	WELL	-	-
781202016	11/1/77	-	-	630	7.1	-	DOMESTIC	-	WELL	-	-
781202017	11/1/77	-	-	-	-	-	ABANDONED	-	-	-	-
781202018	11/1/77	-	-	-	-	-	DOMESTIC	-	SPRING	-	-
781202019	11/1/77	23.00	-	-	-	40	DOMESTIC	-	152	-	-

STATE NO (SHEET M5)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA (mm)	DEPTH (m)	
768202012	29/3/77	45.70	-	218	7.2	320	DOMESTIC	-	152	45.70	-
768202015	12/11/45	62.90	FLWS	360	-	240	UNABLE TO LOCATE	VARIOUS	204 152	9.10 47.50	SANDSTONE QUARTZ
768202016	9/35	64.60	-	586	-	-	ABANDONED	-	-	-	-
768202017	23/3/77	21.30	3.00	475	7.4	200	ABANDONED	-	WELL	-	-
768202018	21/6/66	39.00	21.30	445	6.7	110	QUARRY	13.70 30.50	152	16.90	SHALE
768202019	14/5/48	41.10)	MINERAL INVESTIGATION								
768202020	26/5/48	6.80)									
768202021	4/5/48	38.30)									
768202022	21/5/48	14.60)									
768202023	20/11/64	50.70	-	776	-	550	ABANDONED	-	152	17.30	SLATE & SANDSTONE
768202026	22/11/35	76.20	-	521	-	-	ABANDONED	64.30	-	-	-
768202027	29/3/77	100.60	-	1150	7.8	35	DOMESTIC	-	127	-	-
768202028	29/3/77	48.80	-	770	7.9	-	DOMESTIC	9.70 30.20 39.90	152	48.80	-
768202029	26/8/66	99.00	75.00	645	7.0	220	DOMESTIC	-	127	99.00	-
768202030	29/3/77	7.60	5.00	535	7.0	-	DOMESTIC	-	WELL	-	-
768202031	29/3/77	9.50	15.30	580	6.9	-	DOMESTIC	-	WELL	-	-
768202033	29/3/77	10.40	-	610	7.5	80	DOMESTIC	-	WELL	-	-
768202034	26/8/66	18.90	6.10	670	6.7	40	DOMESTIC	14.60	152	8.50	-
768202035	29/3/77	104.20	-	1135	7.2	65	DOMESTIC	80.80	152	6.00	SLATE
768202036	26/8/66	-	-	745	7.0	-	UNABLE TO LOCATE	-	MINE SHAFT	-	-
768202037	5/6/34	12.20	-	729	-	-	NOT USED	-	WELL	-	-
768202038	18/1/38	72.20	-	1200	-	35	DOMESTIC	30.50 32.00	152	6.40	-
768202040	7/5/73	81.00	-	-	-	-	ABANDONED	-	-	-	-
768202041	7/3/74	64.10	60.96	1540	7.5	90	NOT USED	-	152	-	-
768202042	20/10/72	76.20	INVESTIGATION HOLE								
768202043	8/8/76	39.00	0.32	327	7.8	-	QUARRY USE	-	152	38.70	-
768202044	2/5/74	78.00	39.00	2375	71	55	ABANDONED	51.00	152	3.0	-

STATE NO. (SHEET M5)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA (mm)	DEPTH (m)	
768202045	16/5/74	61.00	42.00	1180	-	55	DOMESTIC	59.00	110	-	-
768202046	11/8/76	-	-	631	7.8	-	UNABLE TO LOCATE	-	WELL	-	-
768202048	3/12/58	67.00	33.50	720	-	200	ABANDONED	-	152	13.70	SLATE
768202049	9/3/77	22.00	FLWS	980	7.2	1000	IRRIGATION & DOMESTIC	VARIOUS	204 152	5.15 17.25	SLATE
768202050	23/3/77	109.70	-	655	7.7	-	DOMESTIC	-	152	109.00	-
768202051	29/3/77	48.70	-	655	7.1	-	DOMESTIC	-	152	-	-
768202052	29/3/77	10.70	-	-	-	-	NOT-USED	-	WELL	-	-
768202053	29/3/77	91.50	-	770	7.2	35	DOMESTIC	-	127	27.50	-
768202054	29/3/77	97.50	-	1040	7.2	160	DOMESTIC	-	152	54.80	-
768202055	29/3/77	86.90	-	470	8.1	220	DOMESTIC	-	152	-	-

STATE No. (SHEET M6)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	DIA. (mm)	DEPTH (m)	SOURCE
769202001	7-1-70	125.00	-	-	-	-	ABANDONED	-	-	-	-
769202002	6-1-77	164.60	33.20	660	8.7	160	DOMESTIC	106.70 128.00	152	-	-
769202003	6-4-39	87.20	-	220	-	-	UNABLE TO LOCATE	-	-	-	-
769202004	8-1-70	81.30	2.70	315	7.0	110	ABANDONED	-	152	13.20	QUARTZITE
769202005	3-3-77	91.44	22.20	275	6.9	-	NOT USED	-	152	-	-
769202006	7-1-70	158.50	-	-	-	-	ABANDONED	-	-	-	-
769202007	7-1-70	164.59	41.80	345	6.5	110	ORCHARD	VARIOUS	152	-	QUARTZ
769202008	7-1-70	55.00	25.90	555	7.5	220	MARKET GARDEN	-	152	12.20	-
769202009	7-1-70	55.80	-	290	6.5	270	ORCHARD	-	152	-	-
769202010	5-7-50	37.50	)								
769202011	20-5-50	55.80	)								
769202012	9-6-50	43.90	)								
769202013	25-5-50	17.40	)								
769202014	18-6-50	39.30	)								
769202015	25-6-50	37.50	)								
769202016	3-7-50	54.20	)								
769202017	8-12-49	38.80	)								
769202018	7-2-50	45.50	)								
769202019	20-3-50	10.00	)								
769202020	20-5-50	22.00	)								
769202021	2-5-50	42.70	)								
769202022	7-1-70	67.00	31.70	555	7.4	260	DOMESTIC	-	152	7.30	-
769202023	7-1-70	106.70	40.80	385	7.0	130	ORCHARD	-	178) 152)	94.50) 106.70)	-
769202024	18-11-49	67.50									
769202025	5-4-57	-	-	350	-	-	UNABLE TO LOCATE	-	-	-	-
769202026	13-3-58	13.70	-	100	-	10	UNABLE TO LOCATE	-	WELL	-	-

STATE No. (SHEET M6)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA (mm)	DEPTH (m)	
769202028	7-1-70	48.80	G.L..	415	7.0	360	ORCHARD	-	152	7.30	-
769202029	3-3-77	-	-	-	-	-	DOMESTIC	-	WELL	-	-
769202030	3-3-77	82.20	-	-	-	40	NOT USED	-	152	-	-
769202031	2-3-77	54.80	-	127	6.6	130	MARKET GARDEN	-	152	54.00	-
769202032	3-3-77	-	-	-	-	-	STOCK AND DOMESTIC	-	152	-	-
769202033	3-3-77	-	-	-	-	110	MARKET GARDEN	-	152	-	-
769202034	16-3-77	55.80	FLWS	278	7.5	220	MARKET GARDEN	-	152	1.00	-
769202035	16-3-77	-	-	91	4.9	-	WILDLIFE	-	SPRING	-	-
769202036	16-3-77	-	-	104	5.5	-	WILDLIFE	-	SPRING	-	-

STATE No. (SHEET N4)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
772202007	19-4-77	61.00	-	-	-	-	ABANDONED	-	-	-	-
772202008	19-4-77	70.00	-	-	-	-	ABANDONED	-	-	-	-
772202009	27-7-64	48.80	-	-	-	-	DRAINAGE	-	152	44.80	SLATE
772202010	1-11-54	76.80	-	1400	-	55	DRAINAGE	70.00 75.00	204	6.10	SLATE
772202011	30-5-49	78.30	-	-	-	-	DRAINAGE	-	110	62.20	SLATE, SANDSTONE & QUARTZ
772202012	22-11-39	41.10	-	1500	-	220	ABANDONED	-	-	-	-
772202013	20-4-66	1.20)	SOIL & WATER OBSERVATION								
772202014	21-4-66	1.20)									
772202020	27-9-66	1.40)									
772202021	27-9-66	1.40)									
772202024	28-9-70	38.40	12.20	645	7.5	270	DOMESTIC	-	152	-	-
772202029	30-9-48	67.00	54.90	260	-	55	UNABLE TO LOCATE	-	-	-	-

STATE NO. (SHEET N5)	DATE	DEPTH (m)	S.W.L. (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
773202002	9/3/50	64.00	-	700	-	10	Abandoned	12.20	152	30.50	-
773202003	10/3/59	7.30	-	100	-	-	Abandoned	-	Well	-	-
773202004	16/6/54	39.60	-	-	-	-	Abandoned	-	-	-	-
773202005	1/2/46	112.80	76.20	1430	-	110	Unable to Locate	-	-	-	-
773202006	14/2/62	-	-	-	-	-	Unable to Locate	-	152	-	-
773202007	12/3/59	3.00	-	714	-	-	Unable to Locate	-	Well	-	-
773202008	18/5/60	118.90	-	350	-	10	Abandoned	83.80	-	-	-
773202009	18/5/60	106.00	-	-	-	22	Not Used	-	110	-	-
773202010	27/4/50	19.50	-	-	-	-	Abandoned	-	152	-	Quartzite
773202011	28/4/36	9.75	6.70	200	-	-	Abandoned	-	-	-	-
773202012	24/1/34	81.80	-	500	-	-	Unable to Locate	-	-	-	Quartzite
773202013	18/3/37	48.80	39.60	520	-	-	Unable to Locate	-	-	-	-
773202014	18/3/37	58.80	51.20	700	-	-	Unable to Locate	-	-	-	-
773202015	18/11/54	33.50	27.10	-	-	5	Unable to Locate	27.10	110	-	Phyllite
773202016	18/11/54	33.50	27.10	-	-	5	Unable to Locate	27.10	110	-	Phyllite
773202017	26/11/54	41.60	29.50	-	-	25	Unable to Locate	29.50	140 110	-	Slate
773202018	3/12/54	33.50	-	-	-	-	Unable to Locate	-	127	-	Quartzite
773202019	24/5/77	12.20	-	-	-	195	Abandoned	-	-	-	-
773202020	24/5/77	91.50	-	865	7.1	55	Not Used	-	204	16.45	-
773202021	10/12/52	47.50	11.30	850	-	55	Abandoned	40.20 45.10	152	2.60	Phyllite
773202022	12/3/46	12.20	-	850	-	10	Not Used	-	Well	-	-
773202023	28/7/36	45.72	-	850	-	55	Abandoned	Various	-	-	-
773202024	CARD MISSING										-
773202025	18/1/33	77.70	9.10	500	-	55	Abandoned	-	-	-	-

STATE NO. (SHEET N5)	DATE	DEPTH (m)	S.W.L. (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
773202026											
773202027	10/5/51	57.90	Flows	750	-	220	Abandoned	-	-	-	-
773202028	10/5/51	20.40	-	400	-	-	Abandoned	-	Well	-	-
773202029	10/5/51	80.00	-	60	-	55	Abandoned	-	-	-	-
773202030	-	41.70	-	-	-	40	Abandoned	-	-	-	Slate
773202031											
773202032	14/4/77	51.00	6.00	505	7.5	280	Market Garden	(16.00 45.70	(152 127 110	-	-
773202033	14/4/77	32.60	6.10	370	7.2	300	Stock & Domestic	-	-	-	Slate
773202034	-	62.50	-	-	-	200	Abandoned	-	-	-	Slate
773202035	5/12/67	60.00	-	-	-	65	Unable to Locate	-	-	-	-
773202036	28/7/66	121.90	67.30	-	-	-	Abandoned	-	-	-	-
773202037	3/5/77	80.00	71.00	-	-	-	Not Used	-	204	-	-
773202038	5/12/67						Suggested Well Site				
773202039	5/12/67						Suggested Well Site				
773202041	- - 36	39.90	-	2000	-	120	Not Used	-	-	-	-
773202042	16/5/41	63.40	-	2000	-	330	Not Used	60.00	-	-	-
773202043	5/12/67						Suggested Well Site				
773202044	17/4/61	109.70					Failure				
773202045	17/4/61	145.30					Failure				
773202046	-	58.80	-	-	-	-	Abandoned	-	-	-	-
773202047	-	58.80	12.20	-	-	55	Unable to Locate	33.20	-	-	Quartzite
773202048	-	-	-	-	-	-	Abandoned	-	-	-	-
773202049	14/4/77	-	-	394	8.4	-	Domestic	-	Spring	-	-
773202050	13/4/77	36.50	9.00	740	7.4	-	Stock & Domestic	-	152	30.00	-
773202051	13/4/77	-	-	720	7.2	-	Domestic	-	152	-	-
773202052	14/4/77	-	-	-	-	-	Not Used	-	152	-	-

STATE NO. (SHEET N5)	DATE	DEPTH (m)	S.W.L. (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
773202053	13/4/77	-	1.00	450	7.9	-	Not Used	-	Well	-	-
773202054	13/4/77	-	-	-	-	-	Not Used	-	152	-	-
773202055	13/4/77	-	-	-	-	-	Not Used	-	Spring	-	-
773202056	14/4/77	51.80	9.00	675	7.5	-	Not Used	-	152	9.20	-
773202057	14/4/77	64.00	-	-	-	-	Marked Garden	-	152	8.20	-
773202058	14/4/77	12.20	3.00	535	7.3	130	Market Garden	-	Well	-	-
773202059	14/4/77	44.00	-	-	-	490	Market Garden	-	204	42.60	-
773202060	14/4/77	9.10	1.20	384	7.2	40	Domestic	-	Well	-	-
773202061	4/5/77	90.00	-	1375	7.9	-	Stock & Domestic	-	152	-	-
773202062	4/5/77	112.80	-	975	7.8	130	Domestic	-	152	10.00	-
773202063	4/5/77	-	-	239	7.8	-	Domestic	-	152	-	-
773202064	4/5/77	-	-	-	-	-	Not Used	-	-	-	-
773202065	3/5/77	18.00	-	-	-	-	Domestic	-	152	-	-
773202066	4/5/77	-	-	-	-	-	Filled In	-	152	-	-
773202067	4/5/77	-	-	-	-	-	Filled In	-	204	-	-
773202068	4/5/77	-	-	-	-	-	Abandoned	-	Well	-	-
773202069	4/5/77	48.80	-	-	-	220	Not Used	-	152	-	-
773202070	2/5/77	12.00	-	-	-	-	Filled In	-	Well	-	-
773202071	2/5/77	-	-	-	-	40	Not Used	-	152	-	-
773202072	4/5/77	60.00	-	-	-	-	Failure	-	-	-	-
773202073	4/5/77	60.00	-	-	-	-	Failure	-	-	-	-
773202074	4/5/77	150.00	-	-	-	-	Failure	-	-	-	-

STATE No. (SHEET N6)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
774202001	18-5-64	35.90	-	-	-	-	ABANDONED	-	NIL	-	SANDSTONE
774202002	2-7-56	30.50	-	-	-	-	UNABLE TO LOCATE	-	-	-	-
774202003	12-12-58	15.30)									
774202004	16-12-58	9.60)									
774202005	18-12-58	9.40)									
774202006	19-12-58	9.20)									
774202007	25-6-58	-)									
774202008	19-4-77	115.80	-	142	4.7	90	EMERGENCIES	-	110	61.00	-
774202009	13-3-58	12.50	11.80	60	-	-	ABANDONED	-	WELL	-	-
7742020 10	15-4-75	45.70	12.20	145	5.8	-	-	-	-	9.10	-
7742020 11	19-4-77	12.20	-	-	-	V.SMALL	DOMESTIC	-	WELL		-
7742020 12	19-4-77	18.30	15.00	104	8.0	20	DOMESTIC	-	WELL		-
7742020 13	21-4-77	82.30	-	142	5.9	-	DOMESTIC	-	152	70.00	-
7742020 14	19-4-77	36.50	-	101	4.9	30	DOMESTIC	-	NIL		-
7742020 15	19-4-77	36.50	-	163	8.5	220	DOMESTIC	-	NIL		-
7742020 16	21-4-77	25.00	18.30	-	-	-	NOT USED	-	WELL		-
7742020 17	21-4-77	-	1.00	145	5.8	90	DOMESTIC	-	WELL		-
7742020 18	19-4-77	100.60	-	1265	6.2	-	DOMESTIC	-	-		-
7742020 19	21-4-77	12.20	-	-	-	-	DRY	-	NIL		-
7742020 20				CARD MISSING							
7742020 21	19-5-77	91.40	-	515	7.1	330	DOMESTIC	16.70	152	20.80	SLATE, QUARTZ
7742020 22				CARD MISSING							
7742020 23	19-5-77	-	-	430	6.9	-	DOMESTIC	-	152	-	-
7742020 24				CARD MISSING							
7742020 25				CARD MISSING							
7742020 26	8-12-32	36.60	-	350	-	-	ABANDONED	-	-	-	-

STATE No. (SHEET 04)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
777202001	7-6-41	30.50	7.00	2200	-	220	ABANDONED	-	-	-	-
777202002	12-4-48	10.60	-	-	-	-	DRAINAGE	-	127	-	-
777202003	22-9-58	63.10		2150	-	15	DRAINAGE	70.10	152	54.50	SLATE
777202004	11-5-55	59.10	-	2150	-	20	DRAINAGE	50.90	127	59.10	SANDSTONE
777202005	7-8-62	74.40	51.80	1780	-	20	DRAINAGE	58.20 64.30	152	39.60	SLATE
777202006	18-4-52	28.00	-	-	-	5	DRAINAGE	-	152	23.40	-
777202007	23-6-77	22.00	1.00	1505	7.2	200	NOT USED	-	152	-	-
777202008	- -34	4.90	4.30	1566	-	V.SMALL	FILLED IN	-	WELL	-	-
777202009	-	20.80	-	-	-	V.SMALL	UNABLE TO LOCATE	-	WELL	-	-
7772020 10	1934	11.00	9.60	392	-	V.SMALL	UNABLE TO LOCATE	-	WELL	-	-
7772020 11	-	50.90	-	-	-	20	UNABLE TO LOCATE	-	-	-	-
7772020 12	24-1-55	32.90	5.30	1100	-	140	DRAINAGE	6.40	152	6.20	-
7772020 13	2-5-52	41.40	-	-	-	15	DRAINAGE	-	204	3.00	SLATE
7772020 14	25-4-65	27.40	6.70	815	-	90	DRAINAGE	10.60 22.80	152	11.40	QUARTZITE
7772020 15	21-4-66	1.40)									
7772020 16	21-4-66	1.40)									
7772020 17	18-4-66	2.30)									
7772020 18	18-4-66	2.30)									
7772020 19	22-4-66	1.20)									
7772020 20	22-4-66	1.20)									
7772020 21	19-4-66	2.40)									
7772020 22	19-4-66	2.40)									
7772020 23	28-9-66	1.40)									
7772020 24	28-9-66	1.00)									
7772020 25	29-9-66	2.30)									
7772020 26	1968										

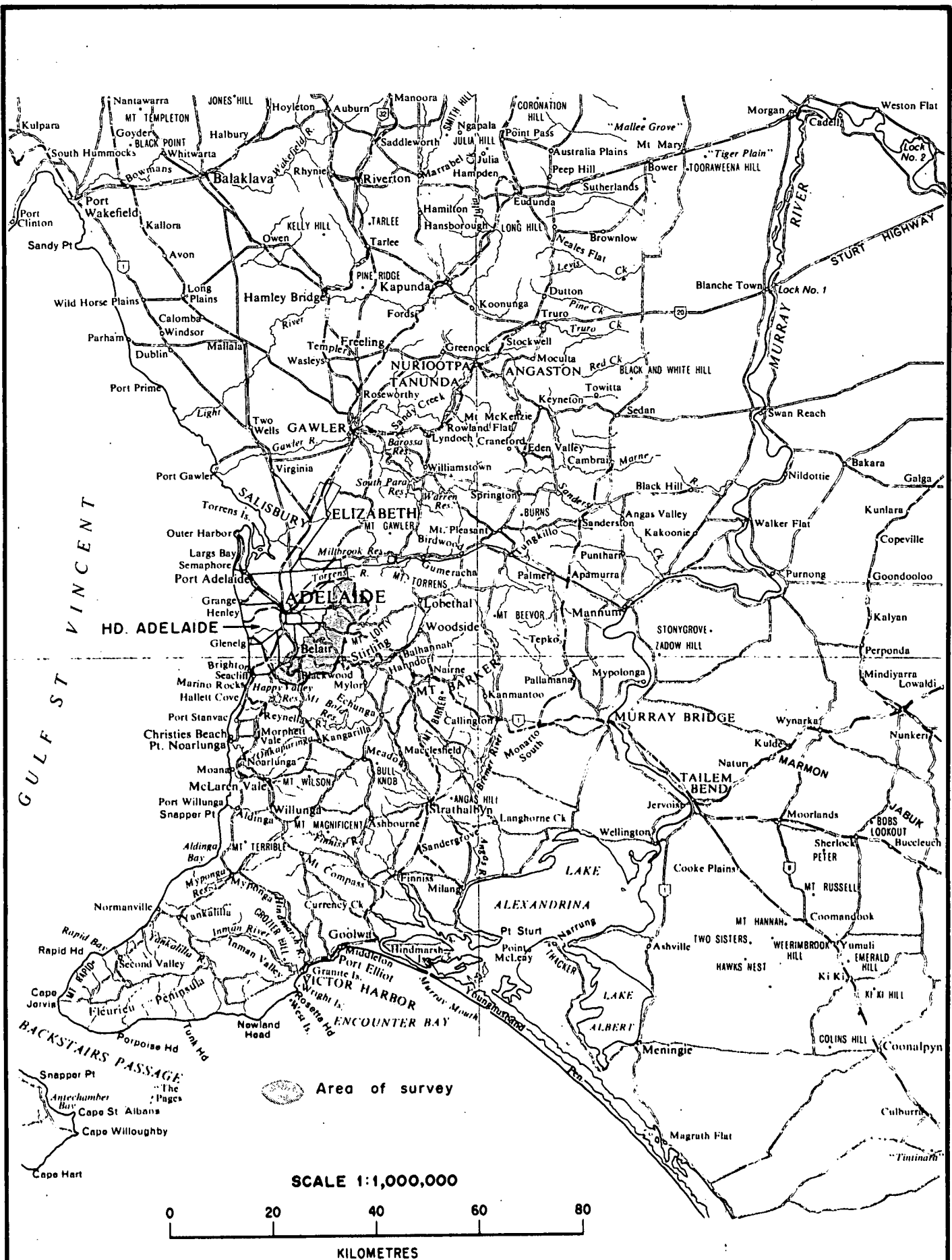
SOIL & WATER OBSERVATION

FOUNDATION INVESTIGATION

STATE No. (SHEET 04)	DATE	DEPTH (m)	SWL (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
777202027	1968)										
777202028	1968)										
777202029	1968)	FOUNDATION INVESTIGATION									
777202030	1968)										
777202031	1968)										
777202032	1968)										
777202033	11-12-72	86.50	53.30	1070	7.5	270	NOT USED	-	-	-	-
777202034	1-3-55	20.40	-	-	-	-	ABANDONED	-	152	-	-
777202035	17-11-65	3.00)									
777202036	17-11-65	3.00)									
777202037	18-11-65	3.00)									
777202038	18-11-65	3.00)	FOUNDATION INVESTIGATION								
777202039	18-11-65	3.00)									
777202040	18-11-65	3.00)									
777202041	18-11-65	3.00)									
777202042	18-11-65	3.00)									
777202043	18-11-65	3.00)									
777202044	18-11-65	1.20)									
777202045	2-2-39	-	-	1000	-	-	UNABLE TO LOCATE	-	SPRING	-	-
777202046	29-2-59	78.00	47.20	850	-	75	DOMESTIC	4.90) 52.40	152	45.60	SLATE
777202047	9-8-56	36.90	10.70	1000	-	-	UNABLE TO LOCATE	30.50	-	-	-
777202048	6-11-59	29.00	4.30	1430	-	380	UNABLE TO LOCATE	21.90	-	-	-
777202049	2-6-59	-	-	12000	-	-	FILLED IN	-	WELL	-	-
777202050	2-6-59	6.10	5.20	1500	-	-	FILLED IN	-	WELL	-	-
777202051	2-6-59	-	-	5000	-	-	UNABLE TO LOCATE	-	SPRING	-	-
777202052	20-3-59	9.10	-	1000	-	75	UNABLE TO LOCATE	-	-	-	-
777202053	20-6-77	-	8.00	-	-	-	TRUCK WASHING	-	204	-	-

STATE NO. (SHEET 05)	DATE	DEPTH (m)	S.W.L. (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		
									DIA. (mm)	DEPTH (m)	SOURCE
778202001	8/7/55	39.60	1.00	700	-	780	National Park	-	204	-	-
778202002	29/7/66	25.90	-	-	-	-	Non Productive	-	-	-	-
778202003	1966	97.50	68.90	-	-	85	General (School)	-	152	25.90	Sandstone
778202004	14/12/65	3.00	} SOIL TESTING								
778202005	14/12/65	3.00									
778202006	14/12/65	3.00									
778202007	20/6/77	91.40	58.00	430	7.4	65	Domestic	-	-	-	-
778202008	19/1/71	91.40	65.50	445	7.0	45	Domestic	65.50	152	7.30	-
778202009	20/6/77	86.00	-	341	7.5	110	House Garden	-	152	83.00	-
778202010	21/2/41	45.70	5.50	114	-	220	Domestic	-	-	-	-
778202011	1/3/55	59.40	-	720	-	40	Unable to Locate	29.00	-	-	-
778202012	-	120.00	-	-	-	V. Small	Abandoned	-	-	-	-
778202013	16/3/65	9.10	} SAND TESTING								
778202014	16/3/65	11.00									
778202015	16/3/65	7.30									
778202016	16/3/65	9.10									
778202017	16/3/65	11.00									
778202018	16/3/65	7.30									
778202019	16/3/65	8.50									
778202020	16/3/65	9.10									
778202021	16/3/65	5.50									
778202022	16/3/65	1.80									
778202023	16/3/65	10.40									
778202024	16/3/65	11.00									
778202025	17/5/62	45.70	6.10	150	-	160	Unable to Locate	-	-	-	-
778202026	20/6/77	64.00	-	221	6.4	320	Orchard, Vegetables & Domestic	Various	152	5.90	-
778202027	3/6/70	-	-	500	7.0	-	Orchard & Domestic	-	Spring	-	-

STATE NO. (SHEET 05)	DATE	DEPTH (m)	S.W.L. (m)	SALINITY (mg/l)	pH	SUPPLY (m ³ /DAY)	USE	WATER CUT (m)	CASING		SOURCE
									DIA. (mm)	DEPTH (m)	
778202028	10/11/76	113.00	79.00	670	6.8	490	Domestic Irrigation Stock	Various	142	104.70	Sandstone
778202029	13/12/76	49.40	-	1325	7.7	160	Domestic	Various	152	48.00	Slate
778202030	20/6/77	60.96	17.00	870	7.2	45	Domestic	-	152	6.00	-
778202031	20/6/77	128.00	-	1010	6.8	100	Domestic	-	152	18.30	-
778202032	21/6/77	80.80	-	1100	7.9	270	Stock & Domestic	-	110	74.40	-
778202033	22/6/77	160.00	-	-	-	Small	House Garden	-	152	1.00	-
778202034	22/6/77	45.70	-	-	-	-	Domestic	-	204	-	-
778202035	20/6/77	76.20	-	-	-	100	Not Used	-	152	12.00	-
778202036	20/6/77	90.00	-	-	-	90	Not Used	-	152	-	-
778202037	20/6/77	66.70	-	475	7.4	160	Orchard	-	152	1.80	-
778202038	22/6/77	122.00	-	675	7.7	90	Domestic	-	-	-	-
778202039	21/6/77	-	-	-	-	-	Domestic	-	152	-	-
778202040	20/6/77	88.40	-	660	7.3	160	Domestic	-	152	9.15	-
778202041	22/6/77	122.00	-	-	-	-	Dry	-	-	-	-
778202042	20/6/77	76.20	-	-	-	270	Not Used	-	152	6.00	-
778202043	20/6/77	-	-	-	-	-	Not Used	-	-	-	-
778202044	22/6/77	102.00	58.00	710	7.0	130	Orchard	-	152	6.00	-
778202045	20/6/77	91.00	G.L.	394	7.0	330	Orchard & Stock	-	NIL	-	-
778202046	22/6/77	85.30	-	-	-	110	House Garden	-	204	-	-
778202047	21/6/77	81.00	-	309	6.6	30	House Garden	-	152	18.30	-
778202048	22/6/77	85.30	-	-	-	Small	Domestic	-	152	12.20	-



		DEPARTMENT OF MINES - SOUTH AUSTRALIA	SCALE 1:1000000
COMPILED P. Tonna		PT. HD. OF ADELAIDE - WATER WELL SURVEY	DATE Aug. 1977
DRN R.H.	CKD		PLAN NUMBER
		LOCALITY PLAN	S12986

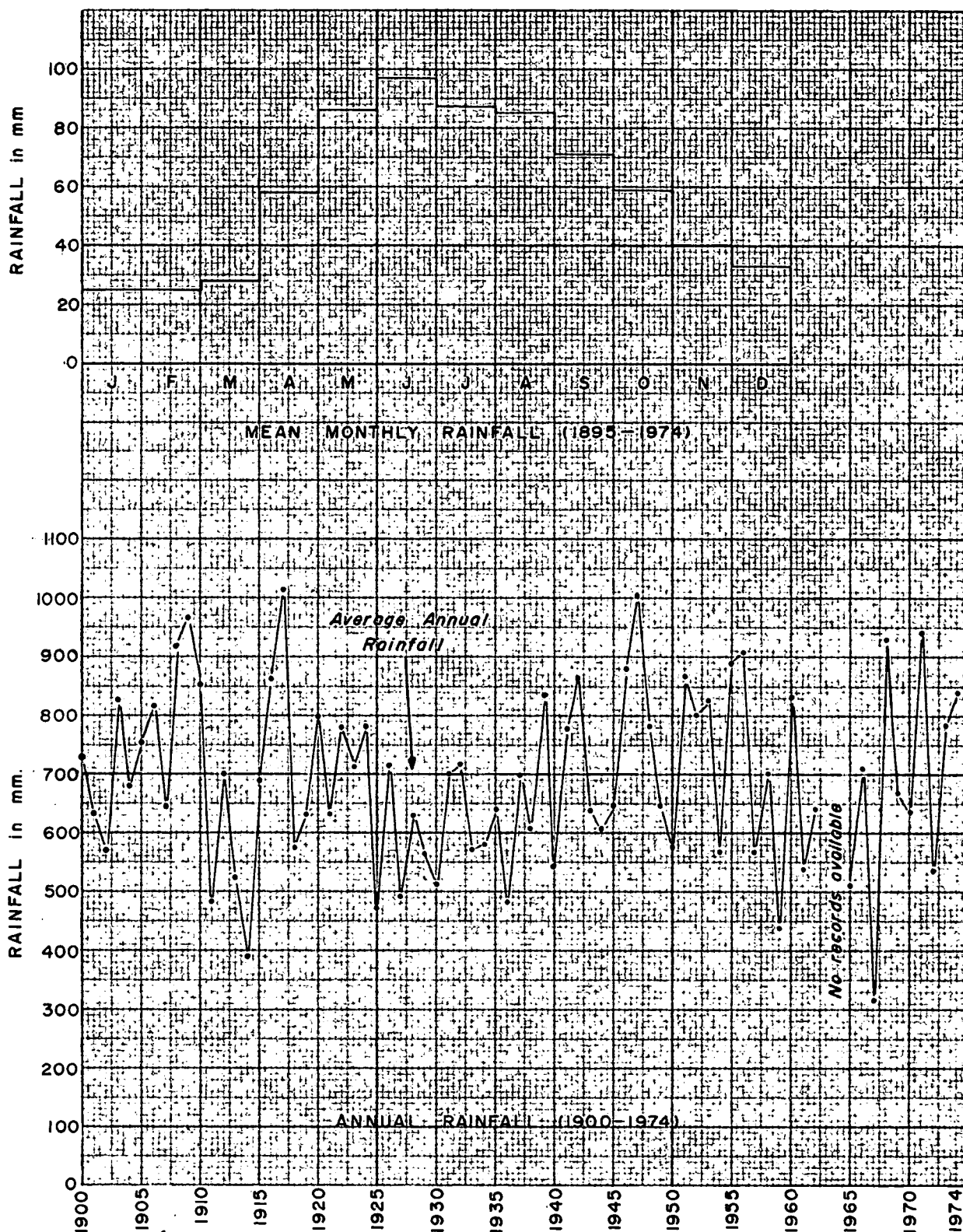


FIG. 2

		DEPARTMENT OF MINES – SOUTH AUSTRALIA	Scale: -
Compiled: P.T.		PT HD. OF ADELAIDE—WATER WELL SURVEY	Date: Aug. 1977
Drn. G.T.	Ckd. R.H.	TEA TREE GULLY	Drg. No.
		RAINFALL STATISTICS	S12976

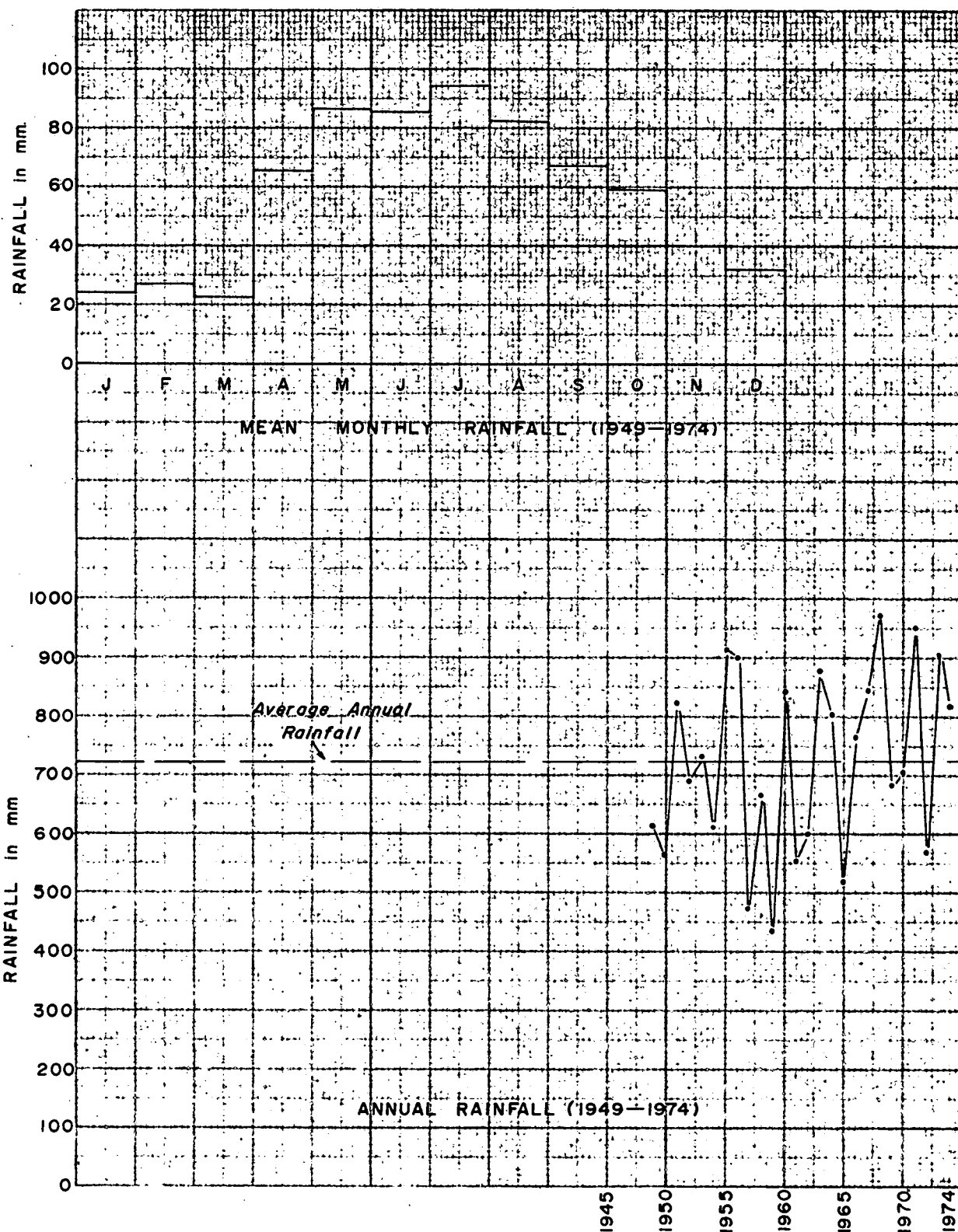


FIG. 3

Compiled: P.T.		DEPARTMENT OF MINES - SOUTH AUSTRALIA		Scale: -
Drn. G.T.	Ckd. R.H.			
		PT. HD. OF ADELAIDE-WATER WELL SURVEY		Date: Aug. 1977
		BLACKWOOD		Drg. No.
		RAINFALL STATISTICS		S12977

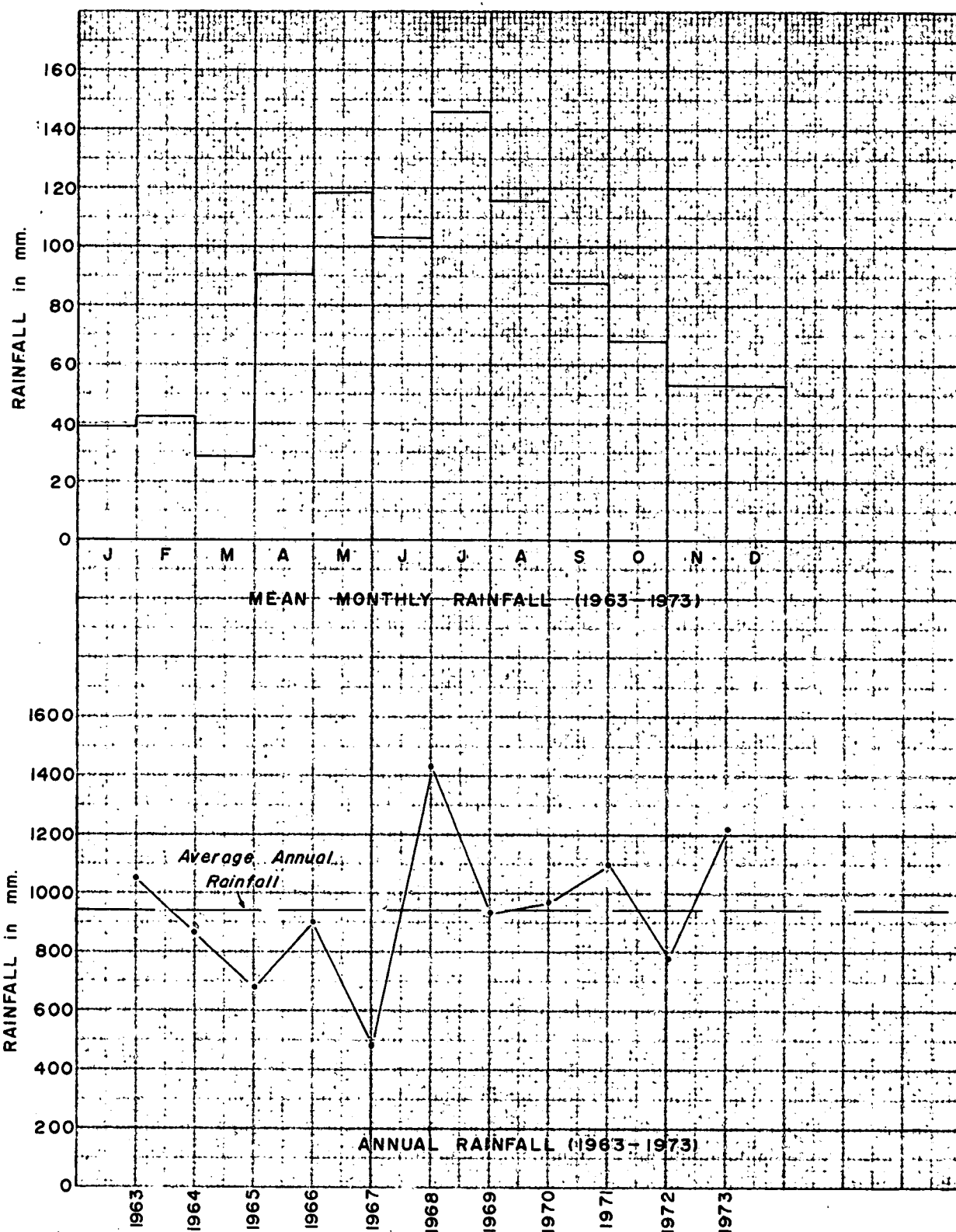


FIG. 4

Compiled: P.T.		DEPARTMENT OF MINES - SOUTH AUSTRALIA		Scale: -
Drn. G.T.	Ckd. D.H.			
		PT HD. OF ADELAIDE-WATER WELL SURVEY		Date: Aug. 1977
		NORTON SUMMIT		Drg. No.
		RAINFALL STATISTICS		S12978

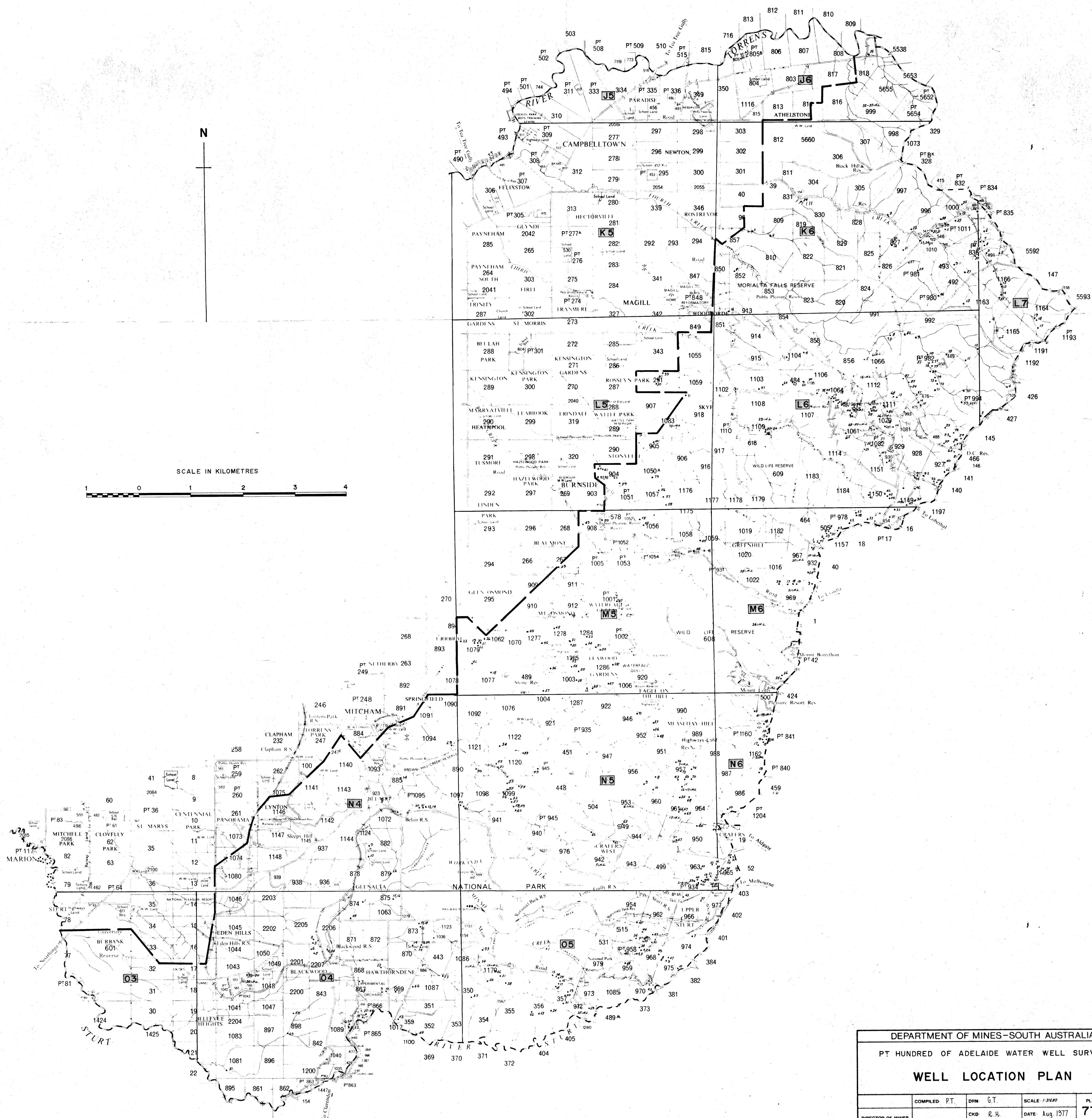
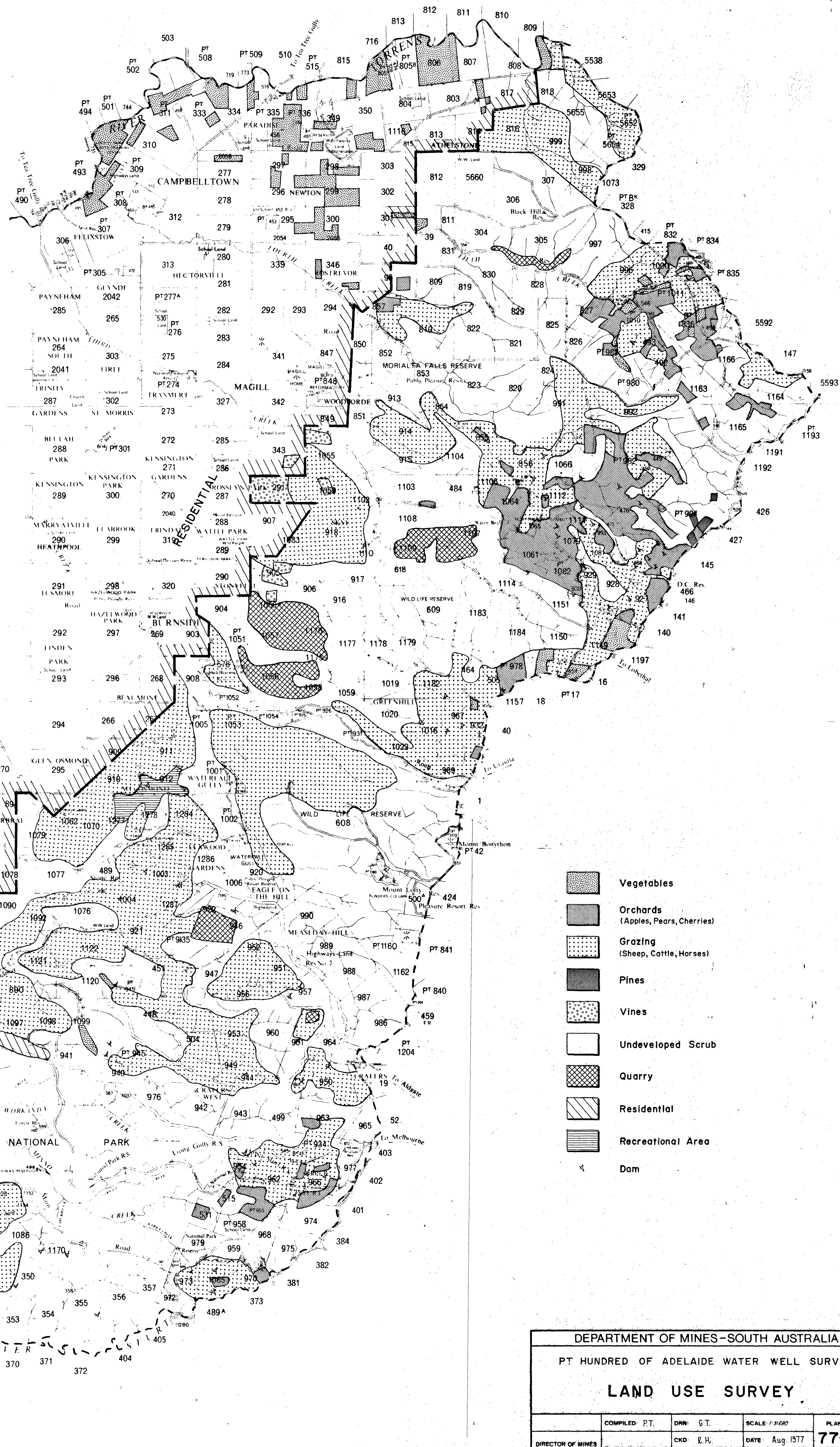
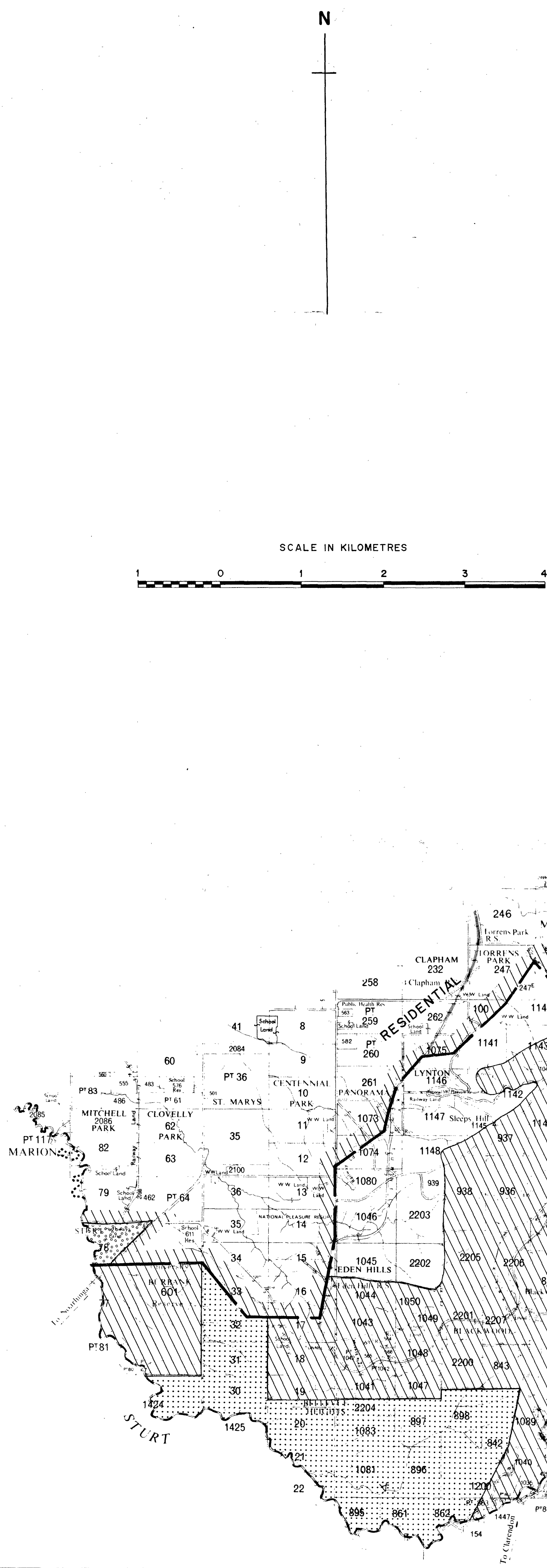


FIG. 5

DEPARTMENT OF MINES—SOUTH AUSTRALIA				
PT HUNDRED OF ADELAIDE WATER WELL SURVEY				
WELL LOCATION PLAN				
COMPILED BY	PT.	DRN.	G.T.	SCALE: 1/31250
DIRECTOR OF MINES		CKD.	R.H.	DATE: Aug. 1977
				PLAN NUMBER 77-664



- Vegetables
- Orchards
(Apples, Pears, Cherries)
- Grazing
(Sheep, Cattle, Horses)
- Pines
- Vines
- Undeveloped Scrub
- Quarry
- Residential
- Recreational Area
- Dam