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UNION CORPORATION (AUSTRALIA) PTY. LIMITED, N.J.W. MARCH, 1982

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FINAL REPORT

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UNION CORPORATION (AUSTRALIA) PTY. LIMITED. N.J.W. MARCH, 1982

E.L. 11/77

FINAL REPORT

1. ATTACHED

- Appendix 1 - Table 1
- Plan No. 1 - Scale 1:50,000

2. INTRODUCTION AND WORK COMPLETED

Geological reconnaissance, mapping and sampling, percussion and diamond drilling were carried out mainly in the Mount Paris area where results were of a low order. These activities have already been reported in a six monthly report of October, 1981.

A stream sediment programme delineated several targets which were followed up by geological reconnaissance investigations the results of which are discussed below.

3. RESULTS

Plan No. 1 shows the localities of samples collected during follow-up. These are listed on Table 1, Appendix 1.

Two samples collected from the granite/sediment contact at the head of Hope Creek contain 600 ppm tin and another downstream has 420 ppm tin. There is also some enrichment in tungsten, up to 50 ppm, in samples collected in this area which has, in the past, been sluiced.

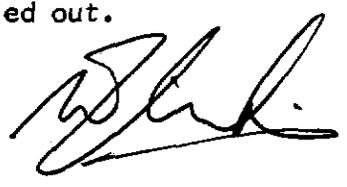
In the north east several narrow quartz greisen veins may be the source of tin in stream sediments. The granites and aplite dykes contain 35 ppm tin or less.

Most stream sediment anomalies appear to be related to known greisen vein tin deposits e.g. UCT 828 and the Rattler lodes in the east. These have little potential as economic, large scale deposits.

4. CONCLUSIONS AND RECOMMENDATION

- a) There are numerous small scale greisen vein style tin deposits most of which are the source of respective stream sediment anomalies.
- b) The granites at the granite/sediment contact near Welcome prospect are anomalous in terms of tin and tungsten. This area is of low to moderate interest.

No further work should be carried out.



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N.J. WINNALL

APPENDIX 1

TABLE 1
SAMPLE ANALYSES AND LOCALITIES

Sampe No UCT Prefix	Sn	W	Mo	Cu	Pb	Zn	DESCRIPTION	LOCALITY
	(Analyses in ppm unless otherwise stated)							
1864 ✓	30	30	<4	2	15	30	Granite/adamellite, medium grained, equigranular	Main Creek tributary
1865 ✓	20	40	<4	<2	20	40	Quartz greisen vein, 10cm wide	" " "
1866 ✓	25	30	<4	<2	15	30	Aplite, float	" " "
1867 ✓	35	30	<4	<2	15	30	Aplite dyke, 2metres wide	" " "
1868 ✓	15	40	<4	2	10	10	Quartz greisen, float	" " "
1869 ✓	40	20	<4	<2	10	25	Quartz porphyry, float	" " "
1874 ✓	15	20	<4	<2	15	20	Granite/adamellite, equigranular	Union Jack Creek
2017 ✓	30	20	2	5	25	30	Granite, muscovite-biotite, porphyritic	Hope Creek
2018 ✓	165	20	<2	15	170	15	Quartz	"
2019 ✓	<5	<10	2	10	40	40	Aplite	"
2020 ✓	30	<10	2	20	10	90	Granite, equigranular	"
2021 ✓	30	10	2	<2	10	20	Granite, biotite-muscovite, medium grained	Nuggety Creek
2022 ✓	30	10	5	2	10	20	Granite, muscovite-biotite, porphyritic	Hope Creek
2023 ✓	5	<10	2	2	5	<2	Quartz, float	"
2024 ✓	420	<10	<2	85	10	40	Granite, porphyritic	"
2027 ✓	220	10	2	15	15	35	Aplite	Laffer Creek
2028 ✓	140	<10	2	5	15	70	Greisen	"
2053 ✓	605	60	<2	5	20	40	Granite/adamellite, muscovite, medium grained, float	Welcome
2054 ✓	610	50	<2	10	20	45	Granite/adamellite, muscovite, medium grained, float	"
2055 ✓	140	50	<2	10	20	20	Aplite, float	"
2056 ✓	70	30	2	5	40	20	Granite/adamellite, muscovite, medium grained	"
2057 ✓	50	30	5	5	20	25	Granite/adamellite, porphyritic, grey, float	"
2058 ✓	55	30	2	10	25	30	Granite/adamellite, medium grained, grey	"
2059 ✓	60	40	5	5	30	30	Granite/adamellite, medium grained, suboutcrop	"

REFERENCE

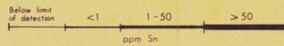
- Geological boundary
- Geological boundary - inferred
- Strike & dip
- Diamond drill borehole with number
- Percussion drill boreholes that intersected granite
- Percussion drill boreholes that failed to intersect granite, some with minor greisen or granite as indicated, drilled to a maximum depth of 40 metres (more commonly 20-30 metres)
- Sample locality
- Groves (1972) sample with assay in percent tin
- Adit
- Shaft
- River, stream with stream sediment sample location & number
- Dam
- Road, track
- Mineral prospect
- Mineral Lease with number
- Exploration Licence boundary
- Chalcopyrite, pyrite occurrence
- Magnetite in panned concentrate
- Fluorescent minerals (probably) zircon in panned concentrate
- Thin section sample locality

LEGEND

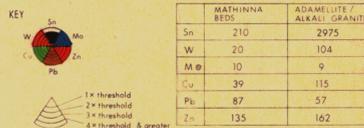
- PLEISTOCENE & RECENT**
 - Alluvium or alluvial material carrying cassiterite (dated)
 - Basalt
- TERTIARY**
 - Greisen, quartz-tourmaline pegmatite
 - Kaolinised granite - worked to depths of 5 metres or less
 - Kaolinised granite - worked to depths of 5 metres or more
 - Adamellite/alkali granite - fine to coarse-grained biotite-muscovite granite mainly equigranular, with some porphyritic types (Dag) & minor apite (Ap)
- UPPER DEVONIAN - LOWER CARBONIFEROUS**
 - Mathinna Beds - mainly siltstones and argillaceous sandstones
- DEVONIAN - SILURIAN - (?) ORDOVICIAN**
 - Mathinna Beds - mainly siltstones and argillaceous sandstones

STREAM SEDIMENT GEOCHEMISTRY

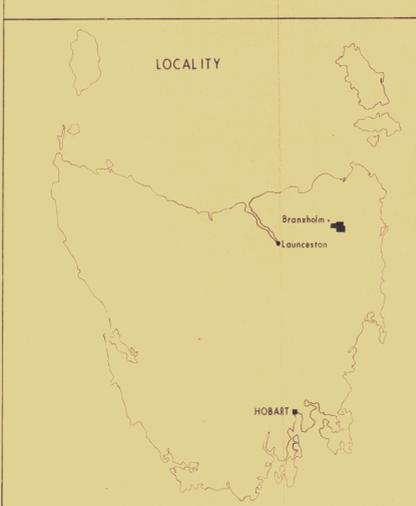
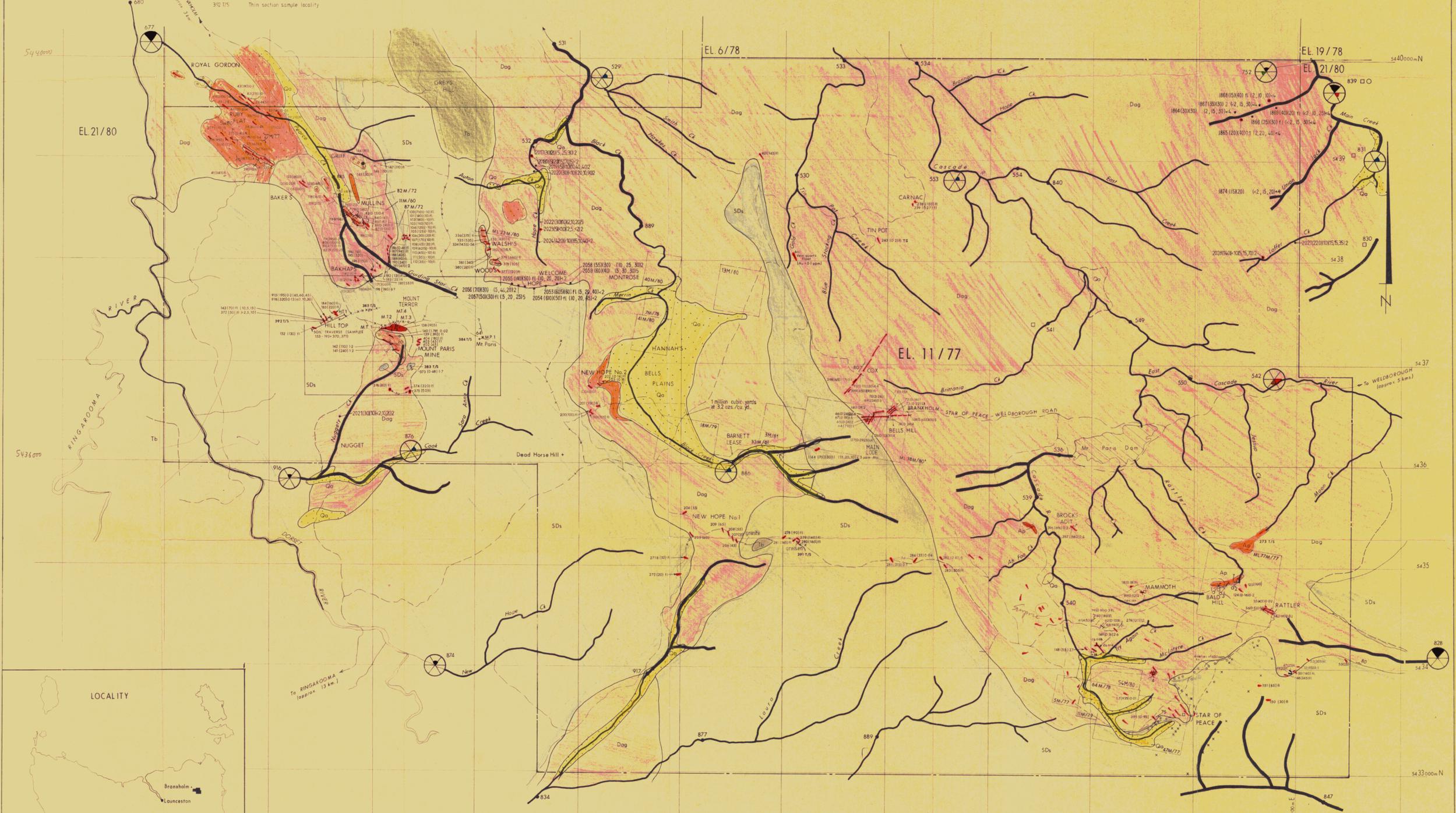
TOTAL TIN CONTENT OF STREAM SEDIMENT SAMPLES CALCULATED FROM ASSAYS OF PANNED CONCENTRATES



MULTI-ELEMENT PLOT, MINUS 80 MESH FRACTION



NOTE: Major Geology after Groves (1972)



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 UNION CORPORATION (AUSTRALIA) PTY LIMITED
 E.L. 11/77 - NORTH EAST TASMANIA
 GEOLOGY, SAMPLE LOCALITIES,
 ROCK & STREAM GEOCHEMISTRY,
 DIAMOND & PERCUSSION BOREHOLE
 LOCALITIES & MINERAL LEASES
 PLAN 1 N.J.W. MARCH, 1982

