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COMMONWEALTH ALUMINIUM CORPORATION LIMITED

EXPLORATION DEPARTMENT

E.L. 17/76 QUAMBY, TASMANIA

FINAL REPORT

COVERING ALL EXPLORATION FROM

NOVEMBER, 1978 TO JULY, 1979

G. Weste.
October, 1979.

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APPENDICES

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PLANS

- TAS-79-255 Stream geochemistry, sample locations & results
- minus 80 mesh sediment
- TAS-79-256 Stream geochemistry, sample locations & results
- minus 80 mesh sediment
- TAS-79-257 Stream geochemistry, sample locations & results
- minus 80 mesh sediment
- TAS-79-270 Stream geochemistry, sample locations & results
- panned concentrate, magnetic, & water
- TAS-79-271 Stream geochemistry, sample locations & results
- panned concentrate, magnetic, & water
- TAS-78-128 Geology of the Cambrian rocks E.L.17/76, Quamby

*TRANSPARENCIES HELD
IN VERTIPLAN.*

1. INTRODUCTION

E.L. 17/76 was granted to Comalco Limited on 26th July, 1976. During 1978 the title was changed to Commonwealth Aluminium Corporation Limited, which is a wholly owned subsidiary of Comalco Limited.

The E.L. was relenquished on the 26th July, 1979.

This report covers exploration carried out between November, 1978 and relenquishment. All exploration prior to November 1978 has been described in an earlier report by this author titled "E.L. 17/76, Quamby, Tasmania. Report on all investigations to October, 1978".

To avoid duplication topics such as general geology and previous exploration in the E.L. by Comalco and other companies are not included in this report. The reader is referred to the earlier, more comprehensive report for information regarding the major part of the exploration carried out.

2. SUMMARY

Up to the commencement of the period covered by this report no indications of significant economic mineralisation had been detected. The exploration carried out after October, 1978 was of a minor nature, mainly aimed at explaining a few remaining rock and stream sediment geochemical anomalies.

The areas covered were:

- Lobster Rivulet - Punches Terror (tin - tungsten)
- Beefeater Hill (silver - copper - cobalt)
- Native Top (gold)

All work failed to indicate economic mineralisation and the E.L. was relinquished.

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3. LOBSTER RIVULET - PUNCHES TERROR

A. GENERAL

During the writing of the October 1978 report results from additional analyses of stream sediment samples for Sn and W were received (see 10/78 report app. 10). Sample locations and results were plotted on drawing nos. 79-255, 256, 257, 270, 271 which accompany this report. Anomalies were briefly described in the 10/78 report section 8E.

B. FOLLOW-UP STREAM CHEMISTRY

A detailed follow-up stream chemistry survey was carried out over the Lobster Rivulet - Punches Terror area in the north-west of the E.L. to verify and further define the W and Sn anomalies. Samples were numbered JB/T/Q143 to 191. 49 stream sediment (prefixed D), 44 panned concentrate (prefixed H), 38 magnetic (prefixed M) and 46 water (prefixed W) samples were collected.

The sediment samples were dried, sieved through 80 mesh and then analysed by Amdel for Sn and W by XRF code B1/B2. Panned concentrates and magnetic (magnet dragged through stream sediment) samples were analysed by Amdel XRF code B1/B2 for Sn and W and by emission spectroscopy code A1 + A2 for Ag, Cd, Ge, Sb, As, Cu, Bi, Ga, Pb, Zn. Water samples were analysed at Comalco Research Centre in Melbourne for F by specific ion electrode. Results were plotted in 'tree' form on the 1:20,000 scale Cadastral sheets listed above (enclosed). Cd, Ge, Sb, Bi, Ga, were not plotted because they were either not detected or present only in very low concentrations. The results are tabulated in appendix 2.

Very few anomalies were obtained by the follow-up survey. Sn and W minus 80 mesh sediment anomalies from the earlier survey were not confirmed by any of the follow-up methods. The original 150 ppm W anomaly north-west of Punches

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Terror resampled at less than 10 ppm. The only significant anomaly was 270 ppm Sn in panned concentrate (sample H 165) taken from Lobster Rivulet well downstream from the previously detected high Sn values.

It is unlikely that analytical error was responsible for the original anomalies. The distribution of Sn and W in the sediments was probably erratic and may have varied with the rate of water flow and the precise sampling location. The low values obtained 'second time around' indicate that the overall Sn and W contents were lower than originally thought.

The panned concentrate samples were examined under short wave ultra-violet light for the presence of scheelite. No scheelite was observed, although one sample (H 146) contained a pale blue fluorescing mineral that may have been herschelite (a zeolite) or the less likely hydro-tungstite (see app.3).

One panned concentrate sample (H 158) collected just to the north west of Punches Terror contained 800 ppm Cu. This appears to represent very minor Cu mineralisation (malachite staining on cleavages) associated with the basic volcanics.

C. EXAMINATION OF P.K. PIT COSTEAN

A deepened costean in the 'P.K. Pit' area (see 10/78, Report, Section 11) located immediately to the north of Gardiners Ridge in the western portion of the E.L. was further examined. Small samples were collected by Aberfoyle (see app. 4) but they contained less W than those previously collected by systematic strip sampling (see 10/78 report, Section 11 E and app. 6).

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The costean was examined at night using short wave ultra-violet lamps but no fluorescence was observed. Another costean located 200 metres south-east was also lamped without success.

D. EXAMINATION OF PUNCHES TERROR.

Further reconnaissance was carried out in an attempt to discover the source of the 150 ppm W anomaly to the north-west of Punches Terror. A completely weathered basic volcanic (now a pale green clay) was exposed by quarrying on the southern slopes.

Minor quartz veins and veinlets within the weathered basic volcanic contain the occasional spec of scheelite or hydrotungstite (see app. 4 and 5). Detailed examination of the area at night using short wave ultra violet light failed to detect any further tungsten mineralisation.

E. CONCLUSION

No indications of significant W or Sn mineralisation were found in the Lobster Rivulet - Punches Terror area.

An origin for the minor W and Sn in the area must take into account the following observations.

- * It is most probable that the same mode of origin applies to both P.K. Pit and Punches Terror.
- * At both localities mineralisation is associated with Cambrian basic volcanic lavas and tuffs.
- * Both localities show fairly strong fracturing and brecciation where mineralised.
- * Significant quartz veining occurs at Punches Terror, compared with very minor quartz veinlets at P.K. Pit.

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- * No carbonates or carbonate rich rocks have been observed at either locality.
 - * There is an association of W and Sn with Cu, Be, Mo and As at P.K. Pit.
 - * The nearest granite outcrops 15 km to the northwest. No bouger anomaly occurs in the area and the rocks are not metamorphosed.

The above points indicate a general stratiform distribution which has some epigenetic characteristics. There are two possible origins for the mineralisation.

They are:

- (i) epigenetic vein and/or replacement of carbonate by solutions emanating from an unexposed Devonian granitoid.
- (ii) sygenetic deposition associated with the eruption of the basic volcanics (i.e. 'Felbertal' style).

The writer favours origin (i). Low temperature solutions originating from a granitoid at some depth carried the W and Sn a considerable distance from the granite contact. The W and Sn were precipitated when the solutions came into contact with the basic volcanics.

4. BEEFEATER HILL AREA

A. EARLIER WORK

Two rock chip samples collected during reconnaissance mapping were anomalous for Cu, Ag and Co. Sample 193, an ironstone boulder, contained 3000 ppm Cu and 5.0 ppm Ag. Sample 112, coarse quartz and limonite, contained 5000 ppm Co, 2.0 ppm Ag, and 10,000 ppm Mn. (For details see 10/78 report app.3). The samples were collected from a low hill immediately to the south of Beefeater Hill.

B. FOLLOW-UP SAMPLING

A more detailed reconnaissance was carried out to assess the potential of the area for significant epithermal Co and Ag mineralisation.

The predominant rock type observed was a unit of north dipping pale yellow to pink soft shales overlain to the north by poorly sorted sandstones and minor coarse greywackes. A welded ash flow about 25 metres thick underlies the shales. Minor quartz veining ^{is} scattered over a gentle broad hill in the shales and greywackes. Most veins ^{are} were less than 0.5 metres thick. Outcrop is very poor and most samples collected were of surface float.

13 rock samples (numbered 227 - 239) of quartz vein and limonite with minor cellular structures (no recognisable boxwork) were collected. Samples are described in app. 5 and their analyses tabulated in app. 6.

Only two samples contained anomalous Co contents and both of these contained significant Mn. Ag and Cu were present at background levels only.

C. CONCLUSION

Minor Co, Ag and Cu occurred in insignificant quartz veins. The most anomalous samples were also high in Mn contents indicating that scavenging occurred.

5. NATIVE TOP AREA

Precambrian laminated quartz-muscovite shists, graphitic shist and quartzites outcrop at Native Top in the southern most portion of the E.L.

The shists and quartzites contain minor fine grained pyrite, are limonite stained and strongly leached suggesting that they may have once been carbonaceous. The possibility of 'Cortez - Carlin' style gold mineralisation was examined.

11 surface rock chip samples (numbered 215 - 216 of the most strongly iron stained and cellular quartzites and shists were collected. The samples were analysed for Au by Amdel using AAS following aqua regia digestion (code C3). All samples contained less than the detection limit of 0.05 ppm. Samples are described in app. 5 and analyses are listed in app. 6.

6. JOINT VENTURE PROPOSAL

Aberfoyle Exploration Pty. Ltd. indicated interest in a joint venture over part of the E.L. The area of interest was the Lobster Rivulet - Punches Terror W - Sn anomalies.

Comalco's data was examined and a field visit to the area was made by Aberfoyle geologist C.H. Young accompanied by the author. Following collection and analysis of a few samples Aberfoyle decided that the area was not prospective and declined to enter a joint venture (see app. 4).

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7. CONCLUSIONS & RECOMMENDATIONS

A. CONCLUSIONS

Although E.L. 17/76 was explored thoroughly, no indications of economic mineralisation were observed.

Very minor disseminated Cu mineralisation occurs at Kentish Hill.

Traces only of W and Sn occur in the Lobster Rivulet - Punches Terror area.

Insignificant Co-Ag-Cu mineralisation in quartz veins at Beefeater Hill are the result of Mn scavenging.

B. RECOMMENDATIONS

No further exploration was warranted in the area and the E.L. was relinquished.

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APPENDIX 1ANALYTICAL METHODS1. BY AMDEL

CODE A Semi quantitative analyses by emission spectroscopy.

CODE B XRF. All XRF analyses are by Code B1 unless otherwise stated.

B1, XRF, accuracy \pm 5% detection limits as quoted.

B2, XRF, accuracy \pm 3% detection limits as quoted. Sample diluted

CODE C AAS

C1 Bi, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb, Zn, accuracy \pm 5% detection limits as quoted. Dissolution in hot HClO_4 .

C2 Ag, Mo, accuracy \pm 5%. Dissolution in hot $\text{HCl} + \text{HNO}_3$?

C3 Au, accuracy dependent on sample, detection limit 0.05ppm. Details of method not available, but dissolution in $\text{HCl} + \text{HNO}_3$.

2. BY COMALCO RESEARCH CENTREWater Fluorine

Read directly by specific ion electrode after addition of buffer solution. Detection limit 0.005ppm.

APPENDIX 2

FOLLOW-UP DRAINAGE GEOCHEMISTRY

ANALYTICAL RESULTS

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AMDEL ANALYTICAL SERVICE

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NATA CERTIFICATE

XRF ANALYSIS CODE B1/B2

RESULTS IN PPM

SAMPLE	SN	W
SS JB/T/QD143	<4	10
JB/T/QD144	55	55
JB/T/QD145	<4	<10
JB/T/QD146	4	10
JB/T/QD147	<4	<10
JB/T/QD148	8	<10
JB/T/QD149	<4	10
JB/T/QD150	<4	<10
JB/T/QD151	4	10
JB/T/QD152	8	<10
JB/T/QD153	<4	10
JB/T/QD154	<4	<10
JB/T/QD155	6	<10
JB/T/QD156	4	10
JB/T/QD157	<4	10
JB/T/QD158	<4	<10
JB/T/QD159	4	<10
JB/T/QD160	4	<10
JB/T/QD161	<4	<10
JB/T/QD162	<4	10
JB/T/QD163	<4	<10
JB/T/QD164	6	<10
JB/T/QD165	16	<10
JB/T/QD166	<4	<10
JB/T/QD167	6	<10
JB/T/QD168	<4	<10
JB/T/QD169	<4	15
JB/T/QD170	<4	<10
JB/T/QD171	4	<10
JB/T/QD172	4	15
JB/T/QD173	<4	<10
JB/T/QD174	<4	10
JB/T/QD175	<4	<10
JB/T/QD176	<4	10
JB/T/QD177	<4	10
JB/T/QD178	<4	<10
JB/T/QD179	<4	<10
JB/T/QD180	<4	15
JB/T/QD181	<4	<10
JB/T/QD182	<4	<10
JB/T/QD183	<4	10
JB/T/QD184	<4	<10
JB/T/QD185	<4	<10
JB/T/QD186	<4	<10
JB/T/QD187	<4	10
JB/T/QD188	<4	<10
JB/T/QD189	<4	10
JB/T/QD190	<4	10
JB/T/QD191	<4	15
JB/T/QH143	<4	<10

DETN LIMIT (4) (10)

SAMPLE	SN	W
PC JB/T/QH144	4	<10
JB/T/QH145	<4	<10
JB/T/QH146	<4	<10
JB/T/QH147	<4	<10
JB/T/QH148	<4	<10
JB/T/QH149	16	<10
JB/T/QH150	4	<10
JB/T/QH151	4	10
JB/T/QH152	<4	<10
JB/T/QH154	<4	15
JB/T/QH155	38	10
JB/T/QH156	<4	<10
JB/T/QH157	<4	<10
JB/T/QH158	6	<10
JB/T/QH160	<4	15
JB/T/QH161	<4	20
JB/T/QH162	<4	<10
JB/T/QH163	10	<10
JB/T/QH164	44	<10
JB/T/QH165	270	10
JB/T/QH166	4	<10
JB/T/QH167	<4	<10
JB/T/QH168	<4	10
JB/T/QH169	<4	10
JB/T/QH170	4	10
JB/T/QH171	14	<10
JB/T/QH172	8	10
JB/T/QH173	<4	15
JB/T/QH174	24	10
JB/T/QH175	28	15
JB/T/QH176	<4	15
JB/T/QH177	<4	10
JB/T/QH178	<4	10
JB/T/QH180	4	<10
JB/T/QH181	<4	10
JB/T/QH182	<4	10
JB/T/QH183	20	10
JB/T/QH184	<4	<10
JB/T/QH185	<4	10
JB/T/QH186	<4	<10
JB/T/QH187	<4	15
JB/T/QH189	<4	10
JB/T/QH190	6	10

H=PC
D=SS
M=Magnetic
W=water

AMDEL ANALYTICAL SERVICE REPORT AN 4209/79

NATA CERTIFICATE

XRF ANALYSIS CODE B1/B2

RESULTS IN PPM

SAMPLE	SN	W
JB/T/QM143	<4	<10
JB/T/QM144	<20	<50
JB/T/QM145	<4	<10
JB/T/QM146	<4	<10
JB/T/QM147	<4	<10
JB/T/QM148	<4	10
JB/T/QM149	30	75
JB/T/QM150	<20	<50
JB/T/QM151	<4	15
JB/T/QM152	<4	<10
JB/T/QM154	<20	<50
JB/T/QM155	6	<10
JB/T/QM156	4	<10
JB/T/QM157	<4	<10
JB/T/QM158	<4	<10
JB/T/QM160	<20	<50
JB/T/QM161	<4	<10
JB/T/QM162	<4	10
JB/T/QM163	<4	<10
JB/T/QM164	<4	<10
JB/T/QM165	<20	<50
JB/T/QM166	4	10
JB/T/QM167	<20	50
JB/T/QM168	50	<50
JB/T/QM169	<4	<10
JB/T/QM170	<4	<10
JB/T/QM171	<4	10
JB/T/QM172	<20	<50
JB/T/QM174	<4	10
JB/T/QM175	4	10
JB/T/QM177	<20	<50
JB/T/QM178	<20	<50
JB/T/QM181	<20	<50
JB/T/QM183	36	<10
JB/T/QM184	<4	<10
JB/T/QM185	30	<50
JB/T/QM186	<20	<50
JB/T/QM187	<20	<50
DETN LIMIT	(4)	(10)

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x = not detected at the limits quoted
 Results in ppm unless otherwise stated. Detection limits in brackets.

Sample No.	Ag (0.1)	Cd (3)	Ge (1)	Sb (30)	As (50)	Cu (1)	B.c (1)	Ga (1)	Pb (1)	Zn (20)
143	101.13	X	X	X	X	6.0	X	3	2.0	X
4	101.11	X	X	X	X	6.0	X	5	3.0	5.0
5	101.15	X	X	X	X	7.0	X	3	1.0	3.0
6	101.12	X	X	X	X	6.0	X	5	3.0	3.0
7	101.14	X		X	X	5.0	X	3	2.0	X
8	101.14	X		X	X	7.0	X	4	2.0	X
9	101.13	X		X	X	6.0	X	2	2.0	X
50	101.13	X		X	X	3.0	X	X	5	X
1	101.14	X	X	X	X	4.0	X	2	5.0	3.0
52	101.13	X	X	X	X	7.0	X	5	4.0	X
54	101.13	X	X	X	X	7.0	X	2	3.0	X
5	101.15	X	X	X	X	5.0	X	4	2.0	1.0
6	101.13	X	X	X	X	6.0	X	3	4.0	5.0
7	101.14	X	X	X	X	7.0	X	2	3.0	X
58	101.16	X	X	X	X	8.0	X	4	3.0	3.0
60	101.13	X	X	X	X	7.0	X	2	2.0	5.0
1	101.14	X	X	X	X	1.0	X	5	2.0	5.0
2	101.13	X	X	X	X	7.0	X	1	7	5.0
3	101.14	X		X	X	6.0	X	2	1.5	X
4	101.14	X		X	X	3.0	X	1	1.5	X
5	101.13	X		X	X	3.0	X	1	1.5	X
6	121.10	X	X	X	X	7.0	X	3	1.5	7.0
7	101.12	X	X	X	X	4.0	X	3	2.0	5.0
8	101.13	X	X	X	X	8.0	X	3	1.5	X
9	101.13	X	X	X	X	1.0	X	7	6.0	1.5
70	101.14	X		X	X	2.0	X	1	1.5	X
171	101.13	3		X	X	4.0	X	1	1.5	X

Results are semi-quantitative. Elements apparently present in concentrations of economic

022 * Received mt/old

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x = not detected at the limits quoted

Results in ppm unless otherwise stated. Detection limits in brackets.

Sample No.	Ag (0.1)	Cl (3)	Ge (1)	Sb (30)	As (50)	Cu (1)	Pb (1)	Ga (1)	Pb (1)	Zn (20)
172	101.13	15	11	X	X	6.0	X	1	110	X
3	101.13	X	11	X	X	110	X	3	110	X
4	101.14	X	11	X	X	4.0	X	3	3.0	X
5	101.13	X	X	X	X	10.0	X	1	2.0	5.0
6	101.13	X	11	X	X	2.0	X	X	5	X
7	101.13	X	11	X	X	2.5	X	X	5	X
78	101.14	X	11	X	X	2.5	X	X	5	X
80	101.14	X	11	X	X	4.0	X	1	2.0	X
1	101.13	X	11	X	X	1.5	X	2	1.5	X
2	101.13	X	11	X	X	2.5	X	3	1.5	X
3	101.14	X	X	X	X	8.0	X	1	1.5	X
4	101.12	X	11	X	X	4.0	X	1	5	X
5	101.14	X	11	X	X	2.5	X	1	1.0	X
6	101.13	X	11	X	X	2.5	X	2	1.0	X
7	101.12	X	11	X	X	3.0	X	X	2	X
9	101.12	X	X	X	X	4.0	X	X	X	X
190	101.12	X	X	X	X	2.0	X	X	X	X
M 143	101.12	X	X	X	X	8.0	X	4	4.0	5.0
4	X	X	X	X	X	7.0	X	5	3.0	110.0
5	101.12	X	X	X	X	8.0	X	17	5.0	20.0
6	101.11	X	X	X	X	8.0	X	110	5.0	110.0
7	101.11	X	X	X	X	8.0	X	15	6.0	110.0
8	101.13	X	X	X	X	7.0	X	110	6.0	110.0
9	101.13	X	X	X	X	7.0	X	110	6.0	110.0
10	101.11	X	X	X	X	8.0	X	110	5.0	7.0
1	101.12	X	X	X	X	3.0	X	17	14.0	5.0
152	101.13	X	X	X	X	4.0	X	3	3.0	5.0

Results are semi-quantitative. Elements apparently present in concentrations of economic

REPORT AC 4209/79

x = not detected at the limits quoted

Results in ppm unless otherwise stated. Detection limits in brackets.

Sample No.	Ag (10.1)	Cd (3)	Ge (1)	Sb (30)	As (50)	Cu (1)	Bi (1)	Ga (1)	Pb (1)	Zn (20)
1154	101.14	15	x	x	x	6.0	x	5	5.0	110.0
5	101.13	x	x	x	x	5.0	x	7	4.0	110.0
6	101.13	x	x	x	x	5.0	x	5	4.0	110.0
7	101.13	x	x	x	x	6.0	x	4	4.0	110.0
158	101.13	x	x	x	x	5.0	x	4	3.0	17.0
160	101.13	x	x	x	x	5.0	x	5	4.0	17.0
1	101.13	x	x	x	x	7.0	x	15	4.0	110.0
2	101.13	x	x	x	x	7.0	x	7	3.0	110.0
3	101.13	x	x	x	x	10.0	x	1.0	5.0	110.0
4	101.14	3	x	x	x	1.0	x	2.5	6.0	110.0
5	101.13	x	x	x	x	8.0	x	2.0	4.0	110.0
6	101.13	x	x	x	x	15.0	x	1.5	2.0	5.0
7	101.13	x	x	x	x	10.0	x	1.5	2.0	110.0
8	101.13	x	x	x	x	7.0	x	1.0	3.0	17.0
9	101.12	x	x	x	x	8.0	x	1.0	8.0	130.0
70	101.12	x	x	x	x	7.0	x	2.5	10.0	17.0
1	101.12	x	x	x	x	2.0	x	4	2.0	15.0
172	101.13	3	x	x	x	5.0	x	2.0	8.0	17.0
174	101.12	x	x	x	x	7.0	x	7	6.0	110.0
5	101.12	x	x	x	x	3.0	x	1.5	6.0	15.0
7	101.12	x	x	x	x	4.0	x	4	2.0	x
8	101.13	x	x	x	x	10.0	x	5	5.0	15.0
81	101.12	x	x	x	x	15.0	x	1.5	3.0	17.0
3	101.12	x	x	x	x	15.0	x	1.5	3.0	17.0
4	101.11	x	1	x	x	8.0	x	1.5	3.0	17.0
5	101.12	x	1	x	x	3.0	x	7	14.0	17.0
7	101.11	x	x	x	x	4.0	x	7	2.0	15.0

Results are semi-quantitative. Elements apparently present in concentrations of economic

023

200024

COMMONWEALTH ALUMINIUM CORPORATION
LABORATORY REPORT

Sample: Expl^{rs} Water: JB/T/Q/W- Report No.: AQ-39 (1-46)
 Submitted by: Mr. G. Weste Devonport. Requisition No.: no number Comm.
Tas. Cont.
 Conc.

ANALYSIS

SAMPLE		F. ppm		SAMPLE		F. ppm		SAMPLE		F. ppm
1	W143	0.074	21	W164	0.005		41	W186	0.016	
2	W144	0.015	22	W165	0.007		42	W187	0.019	
3	W145	0.013	23	W166	0.014		43	W188	0.020	
4	W146	0.058	24	W167	0.022		44	W189	0.025	
5	W147	0.005	25	W168	0.026		45	W190	0.013	
6	W148	0.008	26	W170	0.026		46	W191	0.016	
7	W149	N.D.	27	W171	0.023					
8	W150	N.D.	28	W172	0.020					
9	W151	0.060	29	W173	0.015					
10	W152	0.069	30	W174	0.011					
11	W154	0.012	31	W175	0.023					
12	W155	0.079	32	W176	0.020					
13	W156	0.121	33	W177	< 0.005					
14	W157	0.164	34	W178	0.020					
15	W158	0.219	35	W180	0.064					
16	W159	0.163	36	W181	0.048					
17	W160	0.117	37	W182	0.059					
18	W161	0.082	38	W183	0.029					
19	W162	0.074	39	W184	0.019					
20	W163	N.D.	40	W185	0.017					

Panned concentrates samples JB/T/Q/H143 - H190. Examined under short wave ultra violet light.

G. Weste. 4/79.

Sample No.	Zircon	Scheelite	Sample No.	Zircon	Scheelite
H143	None	-	H180	ab	-
H144	m	-	H181	ab	-
H145	m	-	H182	mod	-
H146	m	weak pale blue med. gr. ???	H183	v.ab	-
H147	mod	-	H184	mod	-
H148	mod	-	H185	mod	-
H149	mod	-	H186	mod	-
H150	m	-	H187	m	-
H151	m	-	-	-	-
H152	m	-	H189	m	-
-	-	-	H190	mod	-
H154	m	-			
H155	mod	-			
H156	m	-			
H157	m	-			
H158	mod	-			
-	-	-			
H160	m	-			
H161	m	-			
H162	m	-			
H163	ab	-			
H164	ab	-			
H165	ab	-			
H166	mod	-			
H167	mod	-			
H168	ab	-			
H169	m	-			
H170	mod	-			
H171	mod	-			
H172	mod	-			
H173	mod	-			
H174	mod	-			
H175	ab	-			
H176	mod	-			
H177	mod	-			
H178	ab	-			

KEY

m = minor
mod = moderate
ab = abundant
v.ab = very abundant

025

APPENDIX 4

ABERFOYLE SAMPLING

A

ABERFOYLE EXPLORATION PTY. LTD.
1 Greenhill Road, Wayville South Australia 5034
P.O. Box 84 Goodwood South Australia 5034
Telephone: 272 8866 Telex: AA82843

P.O. Box 199,
WYNYARD. TAS. 7325.

May 31, 1979.

Mr. P.W. Askins,
Senior Geologist,
Comalco Limited,
Exploration Department,
P.O. Box 691,
DEVONPORT. TAS. 7310.

Dear Paul,

Re: Proposed Joint Venture for E.L. 17/76 Quamby

Subsequent to our original negotiations concerning the availability of Exploration Licence 17/76 for joint venture I have now reviewed the data and completed a brief field inspection of the area.

The exploration completed by Asarco, Union Oil and Comalco suggests there is little potential for a near surface massive base metal deposit to occur in the E.L.

The discovery by Comalco of massive magnetite with anomalous values for tungsten was of interest to Aberfoyle.

My examination of the area consisted of inspection and sampling of the PK pit (magnetite with tungsten), the collection of two panned concentrate samples and follow-up of the stream sediments anomalous for W in the Panches Terror area.

In the PK pit area a shallow dipping sequence of basic volcanoclastic sediments exhibits partial replacement to magnetite of possibly carbonate rich beds. Magnetite pods with a width of up to 10 cm were noted to occur over an interval of about 2 m true thickness. The magnetite rich material assays up to 600 ppm Sn and 1820 ppm W, (refer attached sketch plan and assay sheet).

In the Panches Terror area, follow-up of a 150 ppm W stream sediment value resulted in the discovery of a mineral suspected to be hydro-tungstite within a small (2 cm) quartz vein. (Refer sample No. 230806, 400 ppm Sn 5940 ppm W). The quartz vein occurs in a pale green kaolinite suspected to be a basic volcanic.

Stream sediment geochemistry is a sensitive tool in the local environment. The lack of any significant response for W in the Lobster Rivulet area suggests the W in the PK pit area, represents an extremely limited occurrence. In the Panches Terror area stream sediment values of up to 150 ppm W (maximum for E.L. area) appear to faithfully delineate the local mineralisation.

A member of the Aberfoyle group.

027
Comalco Limited...

.../2

It is possible that were a significant tungsten deposit present in the area then it would be clearly indicated by stream sediment geochemistry.

It is suggested the minor occurrence of W in magnetite in the PK pit area and in a quartz vein in the Panches Terror area both represent metasomatic processes associated with emplacement of Devonian granite.

The apparent lack of a suitable reactive horizon in the E.L. area downgrades the likelihood of the formation of an economic skarn or stratiform scheelite deposit.

Accordingly, Aberfoyle is not at this stage prepared to enter into a joint venture for further exploration of the licence. Should new data become available, however, our interest may be renewed.

Please find attached your report and plans, together with a sketch plan of the PK pit area and an assay result sheet.

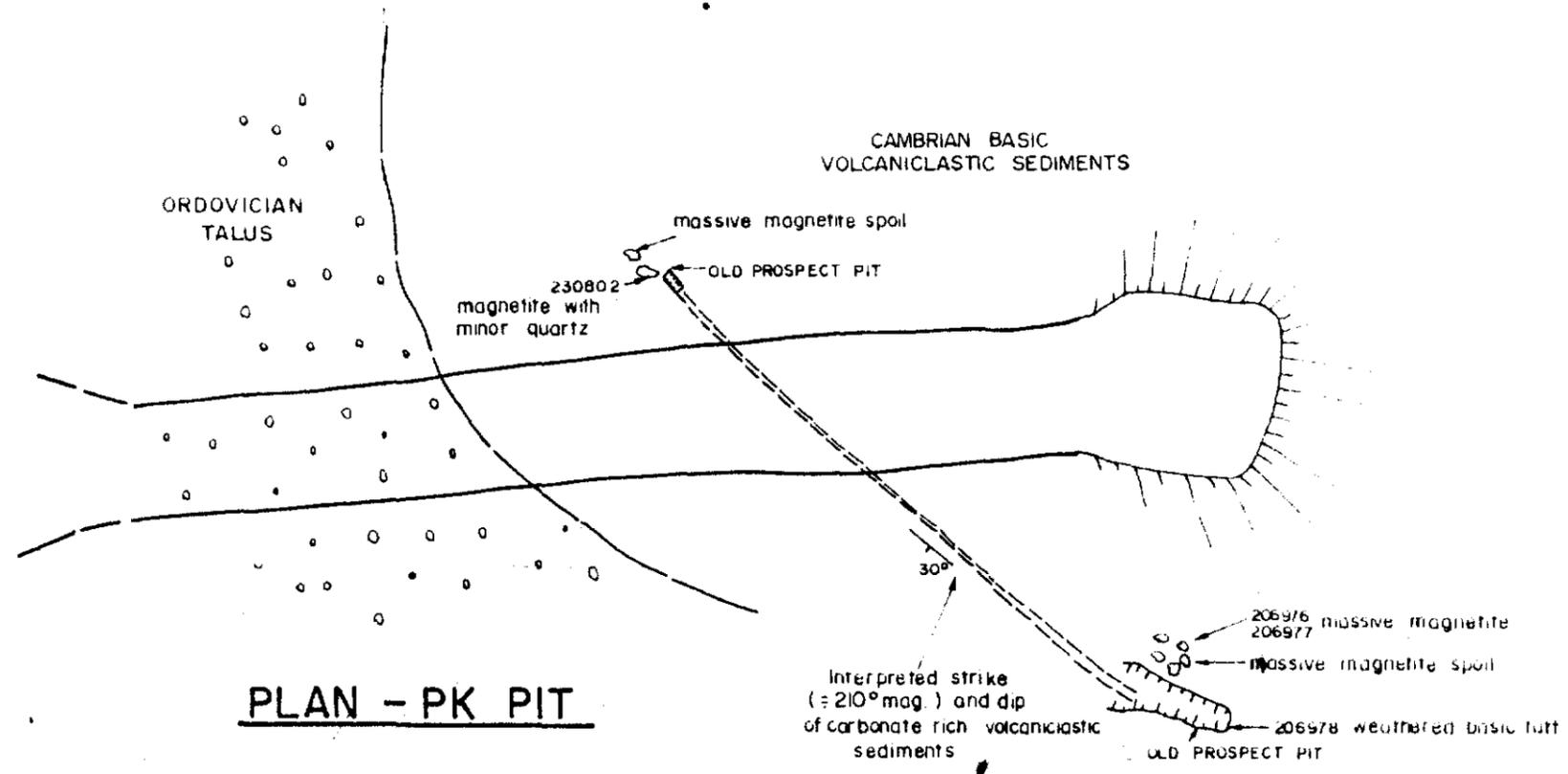
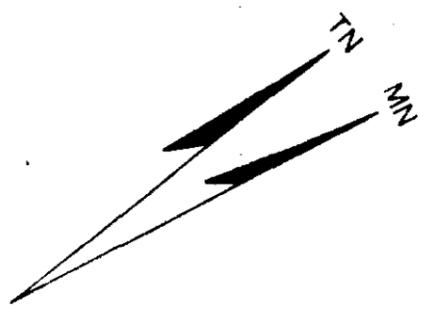
Yours faithfully,



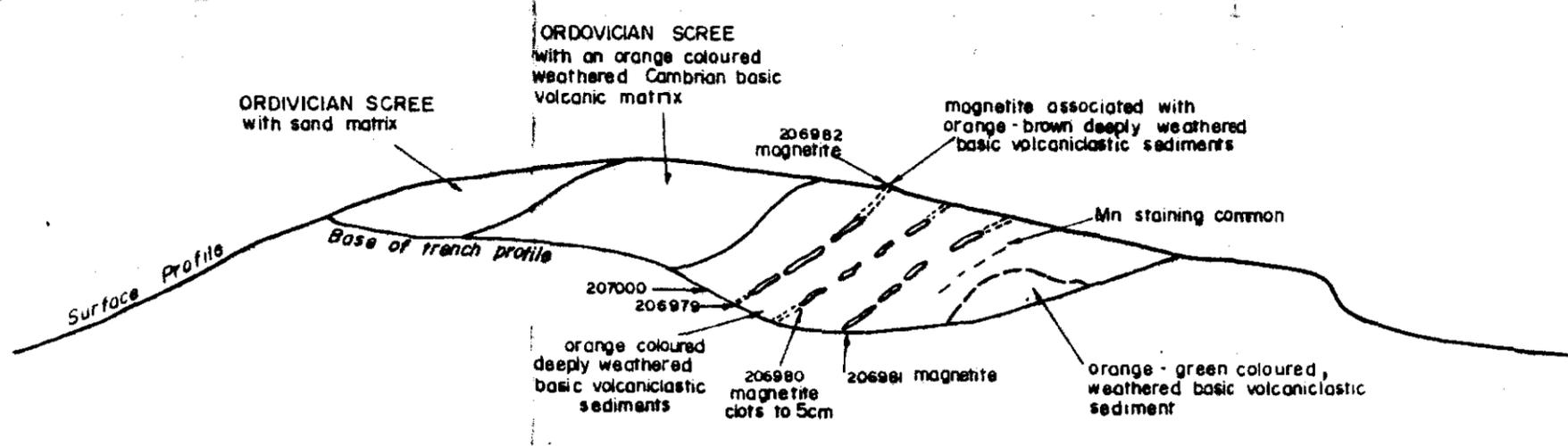
C.H. Young,
Project Geologist,
Tasmania.

PROJECT QUAMBY ELITE	BSS SIEVE SIZE CODE - MESH NUMBER A 200 D 60 G 30 B 150 E 80 H 10 C 100 F 40 T = TOTAL	SAMPLE TYPE CODE <input type="checkbox"/> OXIDIZED PRODUCTS O <input type="checkbox"/> FRESH ROCK R <input type="checkbox"/> STREAM SEDIMENTS S	<input type="checkbox"/> WEATHERED BEDROCK W <input type="checkbox"/> SURFACE TRANSPORTED T <input type="checkbox"/> RESIDUAL SOIL E <input type="checkbox"/> MINE OUMP M	CARD PUNCH PRINT YES <input type="checkbox"/> NO <input type="checkbox"/>	VERIFY YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE	SHEET 200029
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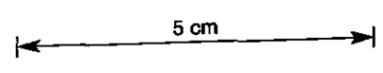
EASTINGS														NORTHINGS														SAMPLE NUMBER				DEPTH IN CMS				SIZE FRACTION				Particle Type		XRF METAL VALUES PPM														AAS														GEOLOGICAL LOG																																					
																																						Sn														W														Cu														Pb														Zn													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																												
<u>PK PIT AREA</u>														207000										<10														60														330														40														35														Weathered basic tuff													
														206976										90														<20														190														60														30														Massive magnetite													
														206977										100														30														70														70														30														"													
														206978										70														<20														330														50														30														Weathered basic tuff/magnetite													
														206979										<10														<20														640														20														35														Weathered basic tuff or metabasals sediment and magnetite													
														206980										80														600														360														60														20														Orange coloured, as above													
														206981										30														1920														710														60														30														as above													
														230802										30														210														40														<20														15														Massive magnetite													
<u>LOBSTER RIVULET</u>														230803								NO ANALY REQUIRED																																																																								Fresh Cambrian basalt massive magnetite													
<u>CK DRAINING W INTO LOBSTER RIVULET FROM PK PIT AREA</u>														230804										<10														<20														20														20														15														Panned concentrate, zircon noted.													
<u>PUNCHES TERRACE</u>														230805										<10														90														30														30														50														Partly weathered acid-intro tuff													
														230806										400														5940														20														30														55														2cm quartz vein with weathered schists													
														230807										<10														90														10														20														60														Panned concentrate, zircon noted.													
														230808										<10														<20														20														30														60														Weathered acid/intermediate tuff													



PLAN - PK PIT



SECTION LOOKING N-W



Aberfoyle Exploration Pty Ltd

Geology:	C.H.Y.
Drawn:	C.H.Y.
Traced:	R.J.E.
Checked:	
Revised by:	Date:

NORTH TASMANIA
 QUAMBY E.L. 17/76
 PK PIT
 Sketch Plan Only

Location code:	
Date:	May, 1979
Scale:	1:250
Plate No:	TAS 19

2030

ROCK SAMPLE LOCATIONS & DESCRIPTIONS

SAMPLE NO.	GRID REF.	DESCRIPTION
		<u>NATIVE TOP</u>
GW/T/Q215	473600/393330	Laminated PC quartzite with thin talc shists & mica shist bands. Fe stained, small Ferruginous leached cavities.
216	473600/393330	Similar to 215 but more strongly leached. Minor MnO.
217	473670/393120	Similar to 216
218	473850/393280	Graphitic shist
220	473910/393270	Graphitic shist
221	474040/393240	Highly weathered black shist. FeO & MnO stained
222	474040/393240	Moderately weathered, leached FeO stained mica shist
223	474040/393240	Dark grey mica & quartz mica shist with FeO sub cellular structures
224	470880/395080	Similar to 223
225	470840/395110	FeO stained quartz vein & black mica shist
226	470880/394620	Laminated mica & quartz mica shist with small leached cavities
		<u>BEEFEATER HILL</u>
227	466320/399750	Quartz vein float in ash flow
228	466430/399730	Quartz vein float in phyllite
229	467090/399690	Quartz vein scree
230	467180/399780	Brecciated limonite stained greywacke with minor quartz veinlets
231	467330/400060	Quartz vein in brecciated sandstone
232	467150/400200	Quartz vein in greywacke
233	466970/400190	Small quartz boulders
234	466880/400140	Quartz boulder material
235	466750/400150	Quartz vein
236	466610/400100	Leached cellular FeO & quartz vein
237	466580/400020	Quartz vein with minor cellular FeO
238	466480/400070	Similar to 237
239	466400/400230	Quartz vein float
		<u>PUNCHES TERROR</u>
241	459910/406250	White-pale green clay with small veins of quartz to 30mm wide
242	459910/406250	Pale green clay- possibly a completely weathered basic volcanic
243	459910/406250	Quartz vein material
207000	460110/402220	Weathered basic tuff
206976	460160/40225	Massive magnetite

031

APPENDIX 5

ROCK SAMPLE LOCATIONS & DESCRIPTIONS

Continued

SAMPLE NO.	GRID REF.	DESCRIPTION
206977	460160/40225	Massive magnetite
206978	460160/40225	Weathered basic tuff & magnetite
206979	460110/402220	Weathered basic tuff or volcaniclastic & magnetite
206980	460110/402220	Orange coloured, as above
206981	460110/402220	As above
230802	460110/402220	Massive magnetite
230805	45950/406260	Partly weathered acid vitric tuff
230806	45950/406260	2cm quartz vein with weathered scheelite?
230808	45950/406260	Weathered acid - intermediate tuff

APPENDIX 6

ROCK SAMPLE ANALYSES

033

200034

AMDEL ANALYTICAL SERVICE

REPORT AN 5241/79

PAGE 1

NATA CERTIFICATE

XRF ANALYSIS CODE R1

RESULTS IN PPM

SAMPLE	SN
GW/T/Q215	22
GW/T/Q216	30
GW/T/Q217	6
GW/T/Q218	10
GW/T/Q220	4
GW/T/Q221	14
GW/T/Q222	<4
GW/T/Q223	10
GW/T/Q224	6
GW/T/Q225	20
GW/T/Q226	4
GW/T/Q227	16
GW/T/Q228	16
GW/T/Q229	6
GW/T/Q230	6
GW/T/Q231	<4
GW/T/Q232	<4
GW/T/Q233	12
GW/T/Q234	<4
GW/T/Q235	8
GW/T/Q236	<4
GW/T/Q237	6
GW/T/Q238	<4
GW/T/Q239	8
GW/T/Q241	4
GW/T/Q242	6
GW/T/Q243	6

NETW LIMIT (4)

NATA CERTIFICATE

XRF ANALYSIS CODE B1

RESULTS IN PPM

SAMPLE	W
GW/T/Q215	<10
GW/T/Q216	25
GW/T/Q217	<10
GW/T/Q218	<10
GW/T/Q220	<10
GW/T/Q221	<10
GW/T/Q222	10
GW/T/Q223	<10
GW/T/Q224	<10
GW/T/Q225	<10
GW/T/Q226	<10
GW/T/Q227	10
GW/T/Q228	<10
GW/T/Q229	<10
GW/T/Q230	<10
GW/T/Q231	<10
GW/T/Q232	<10
GW/T/Q233	<10
GW/T/Q234	<10
GW/T/Q235	<10
GW/T/Q236	<10
GW/T/Q237	<10
GW/T/Q238	<10
GW/T/Q239	<10
GW/T/Q241	20
GW/T/Q242	20
GW/T/Q243	10

DETN LIMIT (10)

REPORT AC 5241/79

200036

x = not detected at the limits quoted
Results in ppm unless otherwise stated. Detection limits in brackets.

Sample No.	Ba (200)	Co (5)	Mn (10)	Ni (5)	Yb (1)	Be (1)	Mo (3)	Ce (300)	La (100)	Nb (20)
215	111X	11110	17100	1115	1113	1112	1115	111X	111X	111
216	121010	111X	111010	111X	1112	1111	11110	111X	111010	1115
217	111X	111X	11100	11310	1113	1111	1113	111X	111X	111
218	171010	11115	11310	11310	1115	11110	111X	111X	111510	111
220	181010	11110	121010	1115	1210	11310	111X	111X	111510	112
1	151010	111410	181010	111410	11110	11210	1115	111X	111510	111
2	171010	111110	111510	1115	11110	11210	111X	111X	111X	111X
3	181010	11115	111510	1115	1115	11210	111X	111X	111510	111X
4	161010	1111X	111510	11210	11110	11210	111X	111X	111010	112
5	111X	111X	111810	11110	1112	1111	1117	111X	111X	111X
6	161010	11115	111810	111010	11210	11115	111X	111X	111010	111X
7	111X	131010	210010	111410	111X	111X	1113	111X	111X	111X
8	111X	111110	111010	11115	111X	1111	1113	111X	111X	111X
9	111X	111X	111410	111110	1111	1112	111X	111X	111X	111X
30	121010	11210	111010	111010	1112	1113	1113	111X	111X	111X
1	121010	111X	111310	11215	1113	1113	111X	111X	111X	111X
2	111X	111X	111810	111110	111X	111X	111X	111X	111X	111
3	111X	111X	121010	111110	111X	111X	1115	111X	111X	111X
4	111X	11115	111010	11115	111X	111X	111X	111X	111X	111X
5	111X	111X	111810	111710	111X	111X	1113	111X	111X	111X
6	111X	111010	151010	111410	111X	111X	1113	111X	111X	111X
7	111X	111110	111710	11115	111X	111X	1113	111X	111X	111X
8	111X	111110	121010	11310	111X	111X	111710	111X	111X	111X
239	111X	111X	111710	11210	111X	111X	11115	111X	111X	111X
241	121010	111X	11210	111010	1113	1117	111X	111X	111X	111X
2	141010	11115	11210	111510	11116	111410	111X	111X	111510	1120
243	111X	11115	111410	11210	1112	11118	1113	111X	111510	111X

Results are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analytical technique.

REPORT AC 5241/79

x = not detected at the limits quoted
 Results in ppm unless otherwise stated. Detection limits in brackets.

Sample No.	Ag (0.1)	Cd (3)	Ge (3)	Sb (30)	As (50)	Cu (1)	Bi (1)	Ga (1)	Pb (1)	Zn (20)
215	101.14	X		X	X	4.0	X	3	2.0	
216	101.17	X		X	X	5.0	2	7	8.0	20
217	101.13	X		X	X	4.0	X	7	2.0	
218	101.13	X	2	X	X	4.0	X	3.0	5.0	
220	101.13	X	2	X	X	3.0	X	3.0	5.0	
1	101.11	X		X	X	4.0	1	2.0	4.0	30
2	101.13	X		X	X	4.0	1	1.5	3.0	
3	101.12	X		X	X	5.0	X	2.5	3.0	
4	101.11	X		X	X	3.0	X	2.0	3.0	
5	101.12	X		X	X	3.0	X	1	5	X
6	101.13	X		X	X	4.0	X	1.5	3.0	X
7	101.12	X	X	X	X	5.0	X	X	4.5	20
8	101.12	X	X	X	X	3.0	X	X	5	20
9	101.11	X		X	X	3.0	X	X	1.0	20
30	101.11	X	2	X	10.0	7.0	X	1.0	8.0	20.0
1	101.12	X	2	X	X	4.0	X	7	2.0	20
2	101.11	X		X	X	3.0	X	X	1.0	X
3	101.11	X	X	X	X	3.0	X	X	1.0	X
4	101.11	X	X	X	X	4.0	X	X	7	X
5	101.11	X	X	X	X	3.0	X	X	5	20
6	101.11	X	X	X	X	7.0	X	X	2.5	X
7	101.12	X	X	X	X	4.0	X	X	7	X
8	101.11	X	X	X	X	7.0	X	X	1.0	X
239	101.11	X	X	X	X	4.0	X	X	2	20
241	101.13	X	2	X	X	3.0	X	5.0	10.0	40
2	101.14	X		X	X	3.0	X	5.0	5.0	30
243	101.14	X		X	X	3.0	X	1.0	4.0	X

Results are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analytical technique.

037

200038.

REPORT AC 5241/79

x = not detected at the limits quoted

Results in ppm unless otherwise stated. Detection limits in brackets.

Sample No.	Y (10)	Au - AAS. code C3 (0.05)								
W/T 215	1210	<0.05								
6	1310	<0.05								
7	1210	<0.05								
218	1510	<0.05								
220	1810	<0.05								
1	1510	<0.05								
2	1410	<0.05								
3	1310	<0.05								
4	1510	<0.05								
5	1210	<0.05								
6	1510	<0.05								
7	1X	<0.05								
8	1110	<0.05								
9	1X	<0.05								
30	1210	<0.05								
1	1310	<0.05								
2	1X	<0.05								
3	1X	<0.05								
4	1X	<0.05								
5	1X	<0.05								
6	1X	<0.05								
7	1X	<0.05								
8	1X	<0.05								
239	1X	<0.05								
241	1210	<0.05								
2	1410	<0.05								
T 243	1X	<0.05								

Results are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined.

Index numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any lot. (e.g. 28/20/4845). Details of Tenure, G = granted lot, P.G. = purchase grant, P. = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier settlement, S.S.L. = soldier settlement lease, R.A. = residence area, L. = lease lot, T.L. = temporary licence, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. or Box 44a G.P.O. Hobart.

CADASTRAL REFERENCE SHEET 20/4640													
Index	Map Ref	Survey Plan	Lot	Area	Name / Purpose	Tenure	Index	Map Ref	Survey Plan	Lot	Area	Name / Purpose	Tenure
1	E10	P.8/4	-	-	Town of Elizabeth Town	-	153	G7	597/1870	-	1.191ha	Acqd. for Road	C.L.
2	F10	2/207	314	129.5ha	Spicer, J.	P.G.	155	H6	D.122/10	-	940m	Acqd. for Road	C.L.
3	F9	1/235	-	91.03ha	Romilly, W.	P.G.	156	H6	D.184/10	-	980m	Acqd. for Road	C.L.
4	G10	103/6	-	24.48ha	Gillar, J.R.	P.G.	157	H6	P.4198	-	Severals	Acqd. for Road	C.L.
5	G9	91/8	-	26.23ha	Comes, E.A.	P.G.	158	J4	P.1555	-	Severals	Acqd. for Road	C.L.
6	H10	125/32	-	971.2ha	State Forest Gaz. 25.7.1958	C.L.	159	J4	P.1806	-	Severals	Acqd. for Road	C.L.
7	H9	136/17	-	6.070ha	Belbin, C.E.	P.G.	160	J5	977/5900	-	680m	Acqd. for Road	C.L.
8	I10	152/11	-	11.08ha	Lee, E.W.	P.G.	161	J5	D.56/110	-	140m	Acqd. for Road	C.L.
9	I9	91/9	-	19.71ha	Walsh, M.E.	P.G.	162	J5	95/8700	-	57m	Acqd. for Road	C.L.
10	I8	91/9	-	19.46ha	Comes, E.A.	P.G.	163	J5	D.48/10	-	367m	Acqd. for Road	C.L.
11	I7	91/9	-	9.165ha	Walsh, J.T.	P.G.	164	J5	D.210/70	-	615m	Acqd. for Road	C.L.
12	I6	91/9	-	19.42ha	Walsh, G.T.	P.G.	165	J5	13/8/20	-	333m	Acqd. for Road	C.L.
13	I5	91/9	-	10.04ha	Gillar, J.T.	P.G.	166	J5	1/100	-	1700m	Acqd. for Road	P.G.
14	I4	91/9	-	20.60ha	Belbin, C.E.	P.G.	167	J5	-	-	-	-	-
15	I3	91/9	-	6.34ha	Belbin, C.E.	P.G.	-	-	-	-	-	-	-
16	I2	91/9	-	20.18ha	Belbin, C.E.	P.G.	-	-	-	-	-	-	-
17	I1	91/9	-	161.9ha	Farmer, R.P.	P.G.	-	-	-	-	-	-	-
18	H9	136/18	-	14.16ha	Timber Reserve Gaz. 24.6.1970	C.L.	-	-	-	-	-	-	-
19	H8	148/5	-	24.70ha	Walker, W.C.	P.G.	-	-	-	-	-	-	-
20	H7	150/9	-	10.12ha	McNamara, T.	P.G.	-	-	-	-	-	-	-
21	H6	142/70	-	10.62ha	Saunders, W.H.	P.G.	-	-	-	-	-	-	-
22	H5	136/18	-	19.42ha	Sheehan, J.	P.G.	-	-	-	-	-	-	-
23	H4	148/5	-	20.02ha	Griffiths, D.	P.G.	-	-	-	-	-	-	-
24	H3	150/9	-	16.98ha	Daly, W.	P.G.	-	-	-	-	-	-	-
25	H2	142/70	-	8.09ha	Doverell, J.	P.G.	-	-	-	-	-	-	-
26	H1	142/70	-	24.40ha	Vacant	C.L.	-	-	-	-	-	-	-
27	G9	114/22	-	18.29/9	Daley, J.	P.G.	-	-	-	-	-	-	-
28	G8	136/18	-	10.12ha	Green, J.	P.G.	-	-	-	-	-	-	-
29	G7	148/5	-	15.58ha	Gregory, E.G.	P.G.	-	-	-	-	-	-	-
30	G6	150/9	-	11.94ha	Charlesworth, E.	P.G.	-	-	-	-	-	-	-
31	G5	150/9	-	18.94ha	Smith, J.	P.G.	-	-	-	-	-	-	-
32	G4	150/9	-	39.66ha	Shepard, J.	P.G.	-	-	-	-	-	-	-
33	G3	150/9	-	Part of 449.1ha	Munce, S., S.M., E.M., & R.H.	G.	-	-	-	-	-	-	-
34	G2	150/9	-	Part of 449.1ha	Munce, S., S.M., E.M., & R.H.	G.	-	-	-	-	-	-	-
35	G1	150/9	-	Part of 449.1ha	Munce, S., S.M., E.M., & R.H.	G.	-	-	-	-	-	-	-
36	F4	P.0/2	-	18.01ha	Town of Deloraine Gaz. 3.7.1886	P.G.	-	-	-	-	-	-	-
37	F3	2/253	-	15.52ha	Watts, W.K.	P.G.	-	-	-	-	-	-	-
38	F2	152/10	-	15.52ha	Cohen, E.T.	P.G.	-	-	-	-	-	-	-
39	F1	148/1	-	17.20ha	Cohen, E.T.	P.G.	-	-	-	-	-	-	-
40	E4	14/18	-	17.24ha	Aspinall, S.	P.G.	-	-	-	-	-	-	-
41	E3	21/43	-	20.23ha	Hampton, J.	P.G.	-	-	-	-	-	-	-
42	E2	24/30	-	10.12ha	Black, M.	P.G.	-	-	-	-	-	-	-
43	E1	24/28	-	9.712ha	Black, M.	P.G.	-	-	-	-	-	-	-
44	D4	2/229	528	20.23ha	French, W.	P.G.	-	-	-	-	-	-	-
45	D3	2/229	528	121.4ha	Weston, H.	P.G.	-	-	-	-	-	-	-
46	D2	2/229	528	60.70ha	Vernon, M.H.	P.G.	-	-	-	-	-	-	-
47	D1	2/217	429	Part of 86.20ha	Mackay, J.D. & Henry, W.	C.G.	-	-	-	-	-	-	-
48	C4	159/16	-	2.125ha	Aspinall, F.	P.G.	-	-	-	-	-	-	-
49	C3	2/199	-	99.99ha	Sams, W.C. & Green, R.	P.G.	-	-	-	-	-	-	-
50	C2	2/199	-	Part of 259.0ha	Sams, W.C.	P.G.	-	-	-	-	-	-	-
51	C1	1/92	-	40.47ha	Walbourn, J.	P.G.	-	-	-	-	-	-	-
52	B4	1/104	-	182.1ha	Richardson, E. & Bonney, J.	P.G.	-	-	-	-	-	-	-
53	B3	1/99&110	-	495.0ha	Bell, H.	Loc.	-	-	-	-	-	-	-
54	B2	P.26 West	-	323.7ha	Moriarty, M.	G.	-	-	-	-	-	-	-
55	B1	P.26 West	-	404.7ha	Gunn, W.	G.	-	-	-	-	-	-	-
56	A4	168/22	-	66.28ha	Johnstone, E.E.	S.S.	-	-	-	-	-	-	-
57	A3	P.26 West	-	103ha	Moriarty, M.	G.	-	-	-	-	-	-	-
58	A2	1/111	58	Part of 167.9ha	Moriarty, M.	P.G.	-	-	-	-	-	-	-
59	A1	2/203	-	Part of 167.9ha	Kingwell, W.B.	P.G.	-	-	-	-	-	-	-
60	A0	1/101	-	80.94ha	Vaux, F.	P.G.	-	-	-	-	-	-	-
61	A0	P.102	-	61.06ha	McMahon, T.V.	S.S.	-	-	-	-	-	-	-
62	A0	P.102	-	7.15ha	Fair, W.	S.S.	-	-	-	-	-	-	-
63	A0	P.101A	-	61.77ha	Owen, J.J.	S.S.	-	-	-	-	-	-	-
64	A0	P.101A	-	73.5m	Griffin, J.N.	S.S.	-	-	-	-	-	-	-
65	A0	P.101A	-	60.42ha	Griffin, J.N.	S.S.	-	-	-	-	-	-	-
66	A0	P.101A	-	44.61ha	Griffin, B.G. & K.	S.S.	-	-	-	-	-	-	-
67	A0	P.101A	-	72.84ha	Griffin, D.	P.G.	-	-	-	-	-	-	-
68	A0	26/3 Riv	27108	528ha	Viney, A.R.	P.G.	-	-	-	-	-	-	-
69	A0	159/18	-	24.21ha	Goie, W.C.	P.G.	-	-	-	-	-	-	-
70	A0	P.101	-	68.87ha	Stephenson, A.R.	S.S.	-	-	-	-	-	-	-
71	A0	P.101	-	59.64ha	Oliver, A.J.	S.S.	-	-	-	-	-	-	-
72	A0	P.101	-	38.38ha	Griffin, B.J.	S.S.	-	-	-	-	-	-	-
73	A0	P.101	-	102.9ha	O'Neill, M.J.	S.S.	-	-	-	-	-	-	-
74	A0	P.101	-	33.39ha	Griffin, B.J.	S.S.	-	-	-	-	-	-	-
75	A0	P.101	-	102.9ha	Richardson, E. & Bonney, J.	S.S.	-	-	-	-	-	-	-
76	A0	P.26 West	-	72.84ha	Richardson, E.	G.	-	-	-	-	-	-	-
77	A0	1/119	758	323.7ha	Moriarty, M.	G.	-	-	-	-	-	-	-
78	A0	1/119	755	285.1ha	Moriarty, M.	P.G.	-	-	-	-	-	-	-
79	A0	P.26 West	-	Part of 103ha	Moriarty, M.	G.	-	-	-	-	-	-	-
80	A0	P.102	-	51.57ha	Oliver, R.H.	S.S.	-	-	-	-	-	-	-
81	A0	P.102	-	42.22ha	Branch, L.E.	S.S.	-	-	-	-	-	-	-
82	A0	P.102	-	52.26ha	Rowley, R.	S.S.	-	-	-	-	-	-	-
83	A0	11/85.S.	-	1.262ha	Uyatt, H.R.	S.S.	-	-	-	-	-	-	-
84	A0	1/119	711	Part of 259.0ha	Moriarty, M.	P.G.	-	-	-	-	-	-	-
85	A0	140/37	-	47.37ha	Atkins, V.R.	P.G.	-	-	-	-	-	-	-
86	A0	140/37	-	44.91ha	Johnstone, A.W.	S.S.	-	-	-	-	-	-	-
87	A0	P.102	-	64.11ha	Sherman, C.A.V.	S.S.	-	-	-	-	-	-	-
88	A0	P.102	-	63.77ha	Langmaid, B.S.	S.S.	-	-	-	-	-	-	-
89	A0	P.102	-	49.94ha	Payton, J.D.	S.S.	-	-	-	-	-	-	-
90	A0	P.102	-	49.90ha	Payton, J.D.	S.S.	-	-	-	-	-	-	-
91	A0	P.102	-	35.85ha	Elmer, S.B.D.	S.S.	-	-	-	-	-	-	-
92	A0	P.102	-	21.76ha	Branch, L.E.	S.S.	-	-	-	-	-	-	-
93	A0	P.102	-	68.39ha	Hall, E.D.	S.S.	-	-	-	-	-	-	-
94	A0	P.102	-	41.10ha	Elmer, S.B.D.	S.S.	-	-	-	-	-	-	-
95	A0	P.102	-	40.61ha	Langmaid, J.	S.S.	-	-	-	-	-	-	-
96	A0	P.102	-	79.98ha	Atkins, V.R.	S.S.	-	-	-	-	-	-	-
97	A0	1/118	-	485.6ha	Schaw, C.	P.G.	-	-	-	-	-	-	-
98	A0	12/61	-	40.47ha	Hartnell, W.	P.G.	-	-	-	-	-	-	-
99	A0	12/62	-	19.93ha	Gregory, G.	P.G.	-	-	-	-	-	-	-
100	A0	12/60	-	12.89ha	Vacant	C.L.	-	-	-	-	-	-	-
101	A0	2/274	6040	12.89ha	Branch, T.	P.C.P.	-	-	-	-	-	-	-
102	A0	38/2	-	16.39ha	Grubb, F.W.	P.G.	-	-	-	-	-	-	-
103	A0	9/65	-	40.97ha	Gannon, F.	P.G.	-	-	-	-	-	-	-
104	A0	29/37	-	7.487ha	Ritchie, J.	P.G.	-	-	-	-	-	-	-

Index numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any lot. (e.g. 28/20/4845). Details of Tenure: G = granted lot, P.G. = purchase grant, P. = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier settlement, S.S.L. = soldier settlement lease, R.A. = residence area, L. = lease lot, T.L. = temporary licence, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. or Box 44a G.P.O. Hobart.

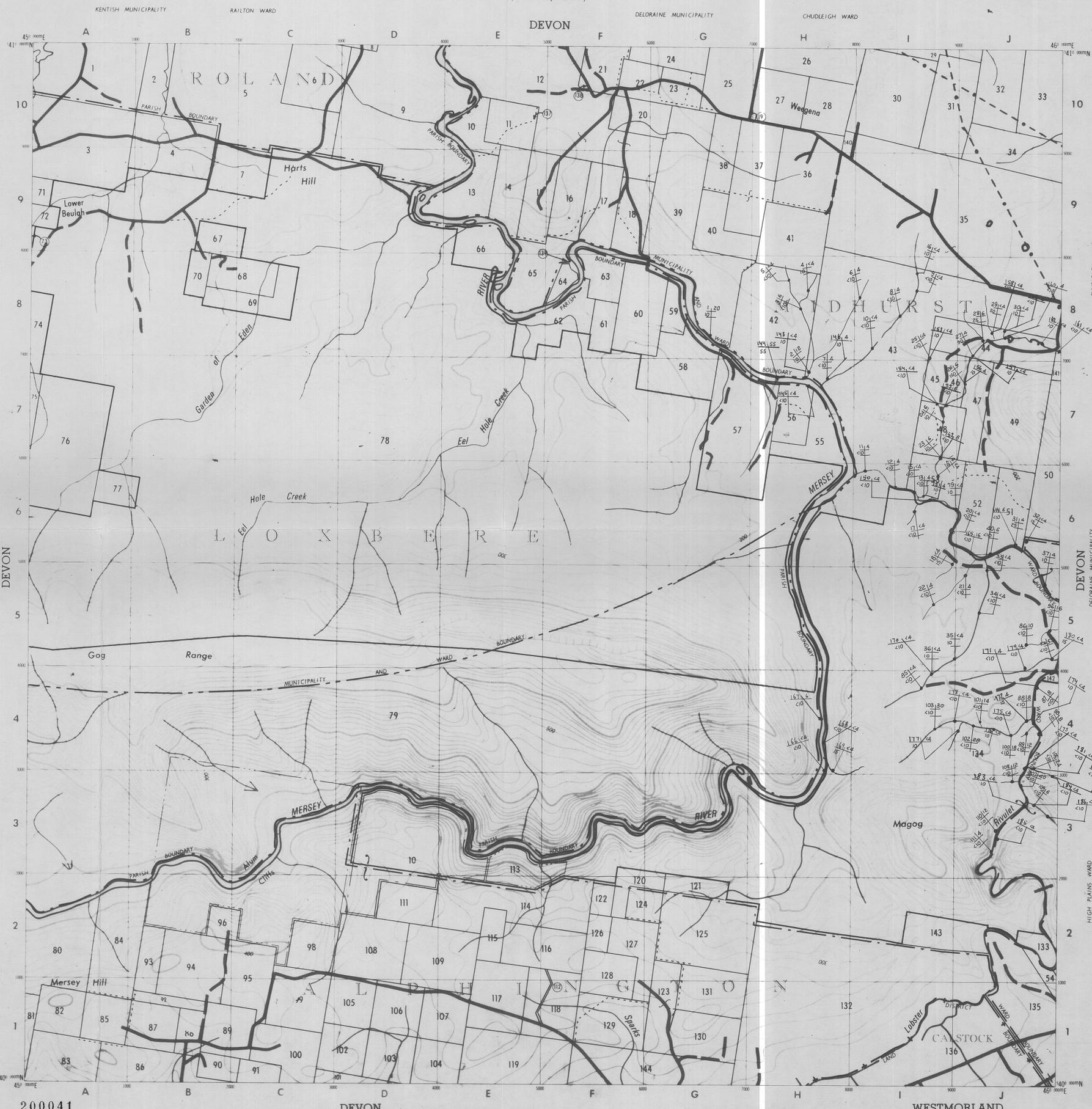
CADASTRAL REFERENCE SHEET 20/4739

Index	Map Ref.	Survey Plan	Lot	Area	Name / Purpose	Tenure	Index	Map Ref.	Survey Plan	Lot	Area	Name / Purpose	Tenure
1	A10	36/22	132.9			G.	101	F1	1/1	132.9			G.
2	A10	14/251	409.9ha		Butler, E.P. & Nutt, R.W.	G.	102	F1	1/1	409.9ha			G.
3	A10	14/254	301.5ha		Foote, E.	G.	103	F1	1/1	301.5ha			G.
4	A10	14/254	19.02ha		Butler, E.P. & Nutt, R.W.	G.	104	F1	1/1	19.02ha			G.
5	A10	2/18	46.23ha		Field, J.	P.G.	105	F1	1/1	46.23ha			P.G.
6	A10	6/7	40.06ha		Toad, W.	P.G.	106	F1	1/1	40.06ha			P.G.
7	A10	216/8	1.210ha		Acq. for Gravel Reserve	P.G.	107	F1	1/1	1.210ha			P.G.
8	A10	20/10	71.51ha		Rade, A.	P.G.	108	F1	1/1	71.51ha			P.G.
9	A10	20/10	5.870ha		Municipal Reserve	P.G.	109	F1	1/1	5.870ha			P.G.
10	A10	6/8	20.64ha		Woods, G.	P.G.	110	F1	1/1	20.64ha			P.G.
11	A10	4/11	40.57ha		Field, J.	P.G.	111	F1	1/1	40.57ha			P.G.
12	A10	2/19	263.0ha		Field, J.	P.G.	112	F1	1/1	263.0ha			P.G.
13	A10	4/8	259.0ha		Part of Grant to J. Boucher	P.G.	113	F1	1/1	259.0ha			P.G.
14	A10	2/10	202.3ha		Ramich, W.M.	P.G.	114	F1	1/1	202.3ha			P.G.
15	A10	4/12	26.25ha		Horse, C.	P.G.	115	F1	1/1	26.25ha			P.G.
16	A10	4/10	40.67ha		Horse, C.	P.G.	116	F1	1/1	40.67ha			P.G.
17	A10	4/15	27.92ha		Horse, C.	P.G.	117	F1	1/1	27.92ha			P.G.
18	A10	4/15	26.20ha		Harris, C.	P.G.	118	F1	1/1	26.20ha			P.G.
19	A10	4/15	404.7m ²		P.W.D. Depot	C.L.	119	F1	1/1	404.7m ²			C.L.
20	A10	4/15	20.33ha		Harris, C.	P.G.	120	F1	1/1	20.33ha			P.G.
21	A10	8/28	19.58ha		Cook, J.	P.G.	121	F1	1/1	19.58ha			P.G.
22	A10	8/28	129.3ha		Field, J.	P.G.	122	F1	1/1	129.3ha			P.G.
23	A10	11/12	19.12ha		Bligh, W.J.	P.G.	123	F1	1/1	19.12ha			P.G.
24	A10	2/15	40.27ha		Scott, J.	P.G.	124	F1	1/1	40.27ha			P.G.
25	A10	8/28	23.88ha		Havens, E.H.	P.G.	125	F1	1/1	23.88ha			P.G.
26	A10	17/5	87.59ha		Wart, F.	P.G.	126	F1	1/1	87.59ha			P.G.
27	A10	4/16	22.46ha		Jordan, H.	P.G.	127	F1	1/1	22.46ha			P.G.
28	A10	2/15	40.67ha		Scott, J.	P.G.	128	F1	1/1	40.67ha			P.G.
29	A10	2/15	211.7m ²		H.M. the Queen	C.L.	129	F1	1/1	211.7m ²			C.L.
30	A10	16/19	38.63ha		Leach, J.	P.G.	130	F1	1/1	38.63ha			P.G.
31	A10	8/17	41.18ha		Field, J.	P.G.	131	F1	1/1	41.18ha			P.G.
32	A10	8/23	128.2ha		Yood, J.S.	P.G.	132	F1	1/1	128.2ha			P.G.
33	A10	2/17	32.88ha		Field, J.	P.G.	133	F1	1/1	32.88ha			P.G.
34	A10	2/17	31.06ha		Field, J.	P.G.	134	F1	1/1	31.06ha			P.G.
35	A10	2/10	459.0ha		Field, J.	P.G.	135	F1	1/1	459.0ha			P.G.
36	A10	10/3436	323.7ha		Timber Reserve Gaz. 25.10.39	C.L.	136	F1	1/1	323.7ha			C.L.
37	A10	2/11	21.38ha		Harris, C.	P.G.	137	F1	1/1	21.38ha			P.G.
38	A10	8/27	18.41ha		Fordham, G.	P.G.	138	F1	1/1	18.41ha			P.G.
39	A10	10/44	10.12ha		Fordham, J.G.	P.G.	139	F1	1/1	10.12ha			P.G.
40	A10	16/14	9.67ha		Baker, S.	P.G.	140	F1	1/1	9.67ha			P.G.
41	A10	25/7	20.95ha		McConnell, N.	P.G.	141	F1	1/1	20.95ha			P.G.
42	A10	25/2	62.37ha		Maroney, W.	P.G.	142	F1	1/1	62.37ha			P.G.
43	A10	10/12	13.96ha		Baker, S.	P.G.	143	F1	1/1	13.96ha			P.G.
44	A10	8/33	22.46ha		Gaffney, K.	P.G.	144	F1	1/1	22.46ha			P.G.
45	A10	8/33	40.47ha		Leach, J.	P.G.	145	F1	1/1	40.47ha			P.G.
46	A10	8/33	22.46ha		Scott, J.	P.G.	146	F1	1/1	22.46ha			P.G.
47	A10	8/25	22.05ha		Green, S.	P.G.	147	F1	1/1	22.05ha			P.G.
48	A10	8/25	80.70ha		Fox, S.	P.G.	148	F1	1/1	80.70ha			P.G.
49	A10	8/25	21.06ha		Carr, J.	P.G.	149	F1	1/1	21.06ha			P.G.
50	A10	8/31	80.33ha		Berne, T.	P.G.	150	F1	1/1	80.33ha			P.G.
51	A10	16/13	6.87ha		Hare, D.W.	P.G.	151	F1	1/1	6.87ha			P.G.
52	A10	20/11	10.20ha		Hennessey, J.	P.G.	152	F1	1/1	10.20ha			P.G.
53	A10	18/10	8.09ha		Vacant	C.L.	153	F1	1/1	8.09ha			C.L.
54	A10	8/15	63.13ha		Hennessey, T.	P.G.	154	F1	1/1	63.13ha			P.G.
55	A10	10/26	127.1ha		Green, R.	P.G.	155	F1	1/1	127.1ha			P.G.
56	A10	14/159	607.0ha		Garrett, R.	P.G.	156	F1	1/1	607.0ha			P.G.
57	A10	2/16	28.63ha		Field, W. T.W. & J.	P.G.	157	F1	1/1	28.63ha			P.G.
58	A10	2/16	20.33ha		Field, W. T.W. & J.	P.G.	158	F1	1/1	20.33ha			P.G.
59	A10	2/16	21.38ha		Field, W. T.W. & J.	P.G.	159	F1	1/1	21.38ha			P.G.
60	A10	2/21	492.5ha		Field, J.	P.G.	160	F1	1/1	492.5ha			P.G.
61	A10	15/9A	30.25ha		Crubb, F.W.	P.G.	161	F1	1/1	30.25ha			P.G.
62	A10	2/45	66.06ha		Crubb, F.W.	P.G.	162	F1	1/1	66.06ha			P.G.
63	A10	14/12	18.12ha		Mahony, A.	P.G.	163	F1	1/1	18.12ha			P.G.
64	A10	5/37	138ha		Field, W. T.W. & J.	P.G.	164	F1	1/1	138ha			P.G.
65	A10	4/44	39.25ha		Garrett, R.	P.G.	165	F1	1/1	39.25ha			P.G.
66	A10	9/38	19.02ha		Berne, J.	P.G.	166	F1	1/1	19.02ha			P.G.
67	A10	9/32	21.06ha		Donoghue, T.	P.G.	167	F1	1/1	21.06ha			P.G.
68	A10	9/34	20.02ha		O'Connell, C.E.	P.G.	168	F1	1/1	20.02ha			P.G.
69	A10	20/12	2133ha		State Forest Gaz. 8.6.49	C.L.	169	F1	1/1	2133ha			C.L.
70	A10	8/12	10.02ha		Baker, A.	P.G.	170	F1	1/1	10.02ha			P.G.
71	A10	8/12	20.12ha		Paterson, W.	P.G.	171	F1	1/1	20.12ha			P.G.
72	A10	2/17	19.77ha		Clarke, C.E.	P.G.	172	F1	1/1	19.77ha			P.G.
73	A10	4/14	51.28ha		Ratter, P.	P.G.	173	F1	1/1	51.28ha			P.G.
74	A10	2/12	255.0ha		Archer, W.	P.G.	174	F1	1/1	255.0ha			P.G.
75	A10	15	Part of		State Forest Gaz. 14.7.48	C.L.	175	F1	1/1	Part of			C.L.
76	A10	16/17	62.6ha			P.G.	176	F1	1/1	62.6ha			P.G.
77	A10	3/28	36.31ha		Hall, J. & Badcock, S.	P.G.	177	F1	1/1	36.31ha			P.G.
78	A10	P.59	259.0ha		Hall, J.	P.G.	178	F1	1/1	259.0ha			P.G.
79	A10	P.59	89.42ha		Bowman, P.J.	P.G.	179	F1	1/1	89.42ha			P.G.
80	A10	P.59	89.02ha		Powell, J.	P.G.	180	F1	1/1	89.02ha			P.G.
81	A10	P.59	89.46ha		Chilcott, E.	P.G.	181	F1	1/1	89.46ha			P.G.
82	A10	14/213	167.3ha		Martin, S.	P.G.	182	F1	1/1	167.3ha			P.G.
83	A10	14/217	107.3ha		Martin, S.	P.G.	183	F1	1/1	107.3ha			P.G.
84	A10	P.20	129.5ha		Field, W. & Others	P.G.	184	F1	1/1	129.5ha			P.G.
85	A10	4/27	24.28ha		Powell, J.	P.G.	185	F1	1/1	24.28ha			P.G.
86	A10	4/27	24.08ha		Powell, J.	P.G.	186	F1	1/1	24.08ha			P.G.
87	A10	4/37	16.19ha		White, J.	P.G.	187	F1	1/1	16.19ha			P.G.
88	A10	P.2961	2.063ha		Bone, P.L.	P.G.	188	F1	1/1	2.063ha			P.G.
89	A10	P.20	259.0ha		Jackman, J.H.	P.G.	189	F1	1/1	259.0ha			P.G.
90	A10	4/36	22.86ha		Harris, C.	P.G.	190	F1	1/1	22.86ha			P.G.
91	A10	4/39	8.09ha		Donnell, B.O.	P.G.	191	F1	1/1	8.09ha			P.G.
92	A10	9/1	18.92ha		White, J.	P.G.	192	F1	1/1	18.92ha			P.G.
93	A10	4/38	18.82ha		White, J.	P.G.	193	F1	1/1	18.82ha			P.G.
94	A10	9/8	8.09ha		White, T.	P.G.	194	F1	1/1	8.09ha			P.G.
95	A10	9/11	20.13ha		White, M.	P.G.	195	F1	1/1	20.13ha			P.G.
96	A10	2/52	39.96ha		White, M.	P.G.	196	F1	1/1	39.96ha			P.G.
97	A10	2/39	56.23ha		Hobbs, J.F.	P.G.	197	F1	1/1	56.23ha			P.G.
98	A10	4/32	26.71ha		Donovan, T.	P.G.	198	F1	1/1	26.71ha			P.G.
99	A10	4/32	20.40ha		Connor, J.	P.G.	199	F1	1/1	20.40ha			P.G.
100	A10	4/32	43.28ha		Fielding, W.	P.G.	200	F1	1/1	43.28ha			P.G.
101	A10	9/10	18.92ha		O'Connor, J.	P.G.	201	F1	1/1	18.92ha			P.G.
102	A10	P.3153	19.39ha		Hollins, K.R.	P.G.	202	F1	1/1	19.39ha			P.G.
103	A10	P.2961	10.17ha		Bone, P.L.	P.G.	203	F1	1/1	10.17ha			P.G.
104	A10	P.52	217.7ha		Part of Scott, A.P.	G.	204	F1	1/1	217.7ha			G.
105	A10	P.52	121.4ha		Scott, J.	G.	205	F1	1/1	121.4ha			G.
106	A10	26/23	1.854ha		Berne, T.	P.G.	206	F1	1/1	1.854ha			P.G.
107	A10	2/58	159.4ha		Berne, T.	P.G.	207	F1	1/1	159.4ha			P.G.
108	A10	2/58	37.43ha		Patfield, G.	P.G.	208	F1	1/1	37.43ha			P.G.
109	A10	2/58	37.23ha		Bunsey, M.	P.G.	209	F1	1/1	37.23ha			P.G.
110	A10	2/58	38.04ha		Donohue, A. & Collins, G.T.	P.G.	210	F1	1/1	38.04ha			P.G.
111	A10	2/58	41.48ha		Fielding, J.	P.G.	211	F1	1/1	41.48ha			P.G.
112	A10	2/58	33.28ha		Fielding, J.	P.G.	212	F1	1/1	33.28ha			P.G.
113	A10	2/45	40.47ha		Thomas, W.	P.G.	213	F1	1/1	40.47ha			P.G.
114													

Index numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any lot. (e.g. 20/4541). Details of Tenure: G = granted lot, P.G. = purchase grant, P. = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier settlement, S.S.L. = real settlement lease, R.A. = residence area, L. = lease lot, T.L. = temporary licence, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. or Box 44a G.P.O. Hobart.

CADASTRAL REFERENCE SHEET 20/4540

Table with columns: Index, Map Ref, Survey Plan, Lot, Area, Name Purpose, Tenure. Includes a 'Sample No.' table with columns W and Sn.



This is a Preliminary Edition prepared to provide advance information on areas in which mapping is in progress. This map is Crown Copyright and may only be reproduced upon written authority from the Surveyor-General.

PROJECTION: Transverse Mercator
HORIZONTAL DATUM: Australian Geodetic Datum 1966
VERTICAL DATUM: Mean Sea Level
COMPILED: based on 1:50 000 Topographical Series and Land District Charts.

SCALE 1:20 000
Line Scale Factor K for this sheet = 0.99962

CONTOUR INTERVAL 20 METRES
CONVERSION TABLES

Conversion tables for METRES TO FEET and FEET TO METRES. Includes a scale bar and a note 'THIS IS A METRIC MAP'.

GRID CONVERGENCE CENTRE OF SHEET = 0.5°

MAGNETIC VARIATION 1970 APPROX 12.3°
RATE OF CHANGE APPROX +0.1° EVERY 2 YEARS

MAP REFERENCE SYSTEM
20/4540

1 Fractional scale in thousands i.e. 1:20 000
2 South-West co-ordinates of this map sheet as represented by 10,000 metre grid intervals of the Australian Map Grid is 450,000 m East and 420,000 m North.

BOUNDARY LEGEND
Land District
Municipality
Parish
Ward
Town
Lease
Licence
State Forest
Survey
Miscellaneous

ROAD CLASSIFICATIONS
Principal road and highway
Secondary road
Minor road
Vehicular track
Reserved road

The representation of a road or track on this map is no evidence of the existence of a right of way

INDEX TO ADJOINING SHEETS table with grid coordinates (e.g., 4441, 4541, 4641).

LOCATION DIAGRAM



Users are requested to notify any error to the Surveyor-General, Box 44a, G.P.O. Hobart.

COMALCO LIMITED
TASMANIA
E.L. 1776 QUAMBY
STREAM GEOCHEMISTRY
SAMPLE LOCATION AND RESULTS
MINUS 80 MESH SEDIMENT
Compiled: O. Hedditch
Date: March 1979
Scale: 1:20000
Drg. No.: TAS-79-257

79-1326 1052

Index numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any lot. (e.g. 28/20/4845). Details of Tenure: G = granted lot, P.G. = purchase grant, P. = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier settlement, S.S.L. = real settlement lease, R.A. = residence area, L. = lease lot, T.L. = temporary licence, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. or Box 44a G.P.O. Hobart.

CADASTRAL REFERENCE SHEET 20/4640

Table with columns: Index, Map Ref, Survey Plan, Lot, Area, Name / Purpose, Tenure, Index, Map Ref, Survey Plan, Lot, Area, Name / Purpose, Tenure. Includes a section for 'COMALCO' and 'STREAM GEOCHEMISTRY SAMPLE LOCATIONS AND RESULTS'.



Map metadata including: PRODUCTION: Lands Dept 1974; PROJECTION: Transverse Mercator; HORIZONTAL DATUM: Australian Geodetic Datum 1966; VERTICAL DATUM: Mean Sea Level; COMPILATION: Based on 1:50 000 Topographical Series and Land District Charts; SCALE: 1:20 000; CONTOUR INTERVAL: 20 METRES; CONVERSION TABLES; MAGNETIC VARIATION 1970 APPROX 13.0°; MAP REFERENCE SYSTEM: 20/4640; BOUNDARY LEGEND; ROAD CLASSIFICATIONS; INDEX TO ADJOINING SHEETS; LOCATION DIAGRAM.

5 cm scale bar

Sample No. Sn, Snm, Wm, Cu, Pb, Zn, Ag, As by Amdel, F spec ion electrode by Comalco. Results in ppm. H = panned concentrate, M = magnetic, W = water.

COMALCO
TASMANIA
EL 17/76 QUAMBY
STREAM GEOCHEMISTRY
SAMPLE LOCATIONS AND RESULTS
PANNED CONCENTRATE
MAGNETIC & WATER
C.I. Compiler: C. Hedditch
C.I. Date: May, 1979 Scale: 1:20 000 Drg. No. TAS-79-270

79-1326 1053 200042

Index numbers shown on this tenure map when used in conjunction with the sheet number provides a unique reference to any lot. (e.g. 20/4540/1234) Details of Tenure: G = granted lot, P = purchase lot, L.O. = location order, C.I. = certificate issued, S.S. = soldier settlement, S.S.L. = soldier settlement lease, R.A. = residence area, L = lease lot, T.L. = temporary licence, C.L. = crown land, G.R.P. = granted under Real Property Act. Copies of this plan may be obtained from the Lands Dept. or Box 44a G.P.O. Hobart.

CADASTRAL REFERENCE SHEET 20/4540

Table with columns: Index, Map Ref, Survey Plan, Lot, Area, Name / Purpose, Tenure. Includes a section for 'COMALCO' with sample locations and results for Panned Concentrate, Magnetic, and Water.



Map metadata including: Scale 1:20 000, Contour Interval 20 Metres, Conversion Tables (Metres to Feet, Kilometres to Miles), Magnetic Variation, Map Reference System (20/4540), Boundary Legend, Road Classifications, Index to Adjoining Sheets, and Location Diagram.

79-1326 1054

200043

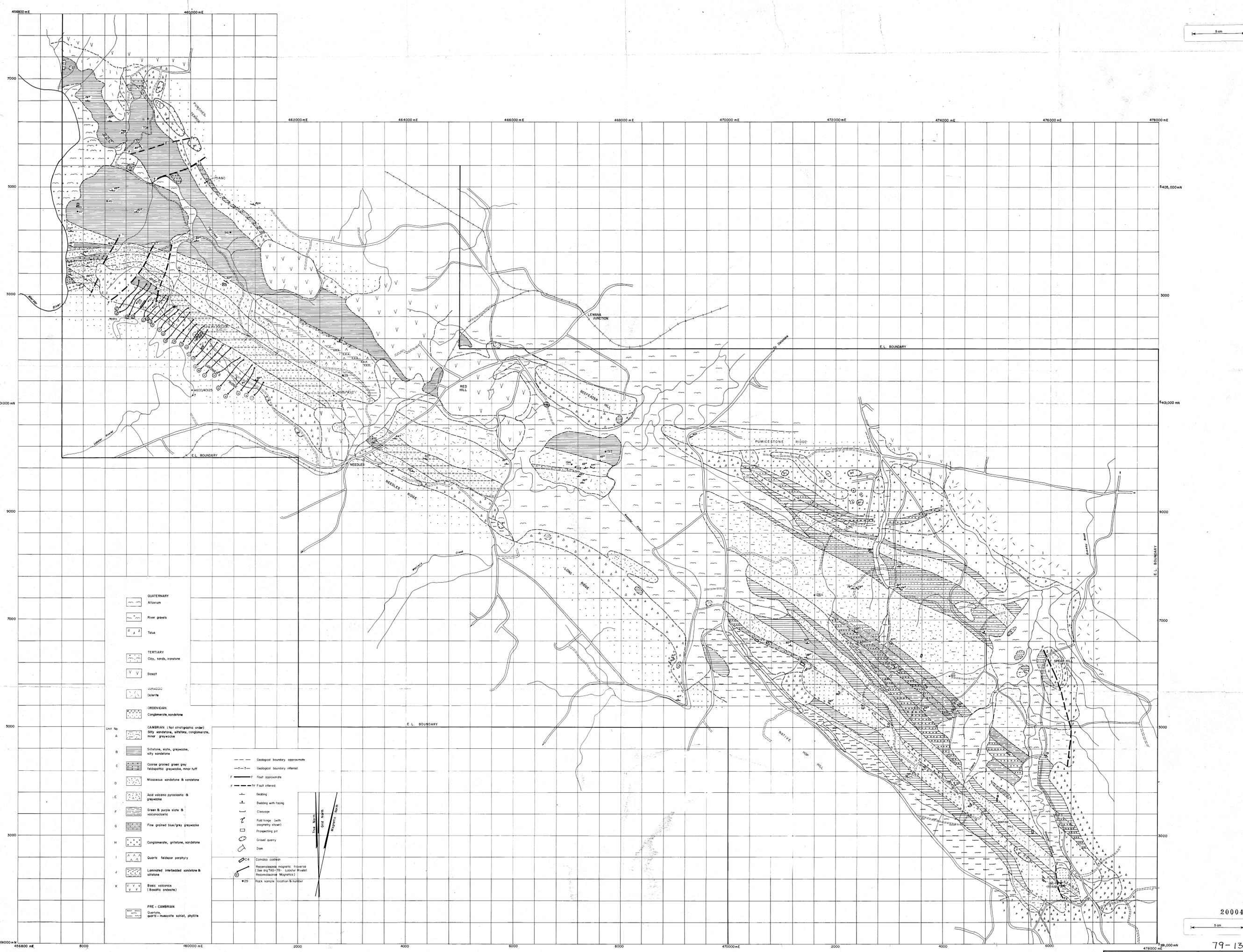
DEVON

DELORAINÉ MUNICIPALITY

CHUDEIGH WARD

WESTMORLAND

Users are requested to notify any error to the Surveyor-General, Box 44a, G.P.O. Hobart.



- QUATERNARY**
- Altium
 - River gravels
 - Talus
- TERTIARY**
- Clay, sands, ironstone
 - Basalt
- UPPER CRETACEOUS**
- Dolerite
- OROVIVIAN**
- Conglomerate, sandstone
- CAMBRIAN (Not stratigraphic order)**
- A Silty sandstone, siltstone, conglomerate, minor greywacke
 - B Siltstone, slate, greywacke, silty sandstone
 - C Coarse grained green grey felspathic greywacke, minor tuff
 - D Micaceous sandstone & sandstone
 - E Acid volcanic pyroclastic & greywacke
 - F Green & purple silt & volcanoclastic
 - G Fine grained blue/grey greywacke
 - H Conglomerate, gritstone, sandstone
 - I Quartz felspar porphyry
 - J Laminated interbedded sandstone & siltstone
 - K Basic volcanics (Basaltic andesite)
- PRE-CAMBRIAN**
- Quartzite, quartz-mica schist, phyllite

- Geological boundary approximate
- - - Geological boundary inferred
- F Fault approximate
- F Fault inferred
- Bedding
- Bedding with facing
- Cleavage
- Fault hinge (with assembly shown)
- Prospecting pit
- Gravel quarry
- Dam
- C4 Comalco corepan
- Reconnaissance magnetic traverse (See also 755-78 - Locus Profile)
- Reconnaissance Magnetic
- Rock sample location & number



200044

79-1326

COMALCO LIMITED

**GEOLOGY OF THE CAMBRIAN
ROCKS EL. 17/76 QUAMBY 1055**

Compiled: P. Komjathon	Revised:	Drawn: S. Hutchison
Date: May, 1978	Scale: 1:20,000	Dwg. No: Tm - 78 - 128