C.R.A. EXPLORATION PTY. LIMITED

DC59

271001

INITIAL EXPLORATION ON THE

STAVERTON PROSPECT E.L.7/73
NORTHERN TASMANIA

Date : 18th February 1978
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Copies to : Mines Department of Tasmania
Asarco (Australia) Pty. Ltd.

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1. SUMMARY

This report outlines the results of the first stage of exploration on the Staverton prospect, near Sheffield in Northern Tasmania. The prospect lies within E.L. 7/73 (Asarco - C.R.A.E Joint Venture).

The prospect area embraces a sequence of altered Cambrian acid volcanics, predominantly tuffs, which are pyritic in places.

Asarco sampled the drainages in the area during 1973-74 and obtained values of 400 & 390 ppm Pb and 760 & 106 ppm Zn from two small creeks with a total catchment area of 1 sq. km.

The present programme commenced in June 1977 with traverses up both anomalous creeks, followed by the cutting of a small 400 x 20 m grid. Geological mapping, soil and rock sampling, and gradient array I.P. have been completed on the grid.

Soil sampling has defined several moderately anomalous zones and one major anomaly with a peak value of 1,800 ppm Pb and 370 ppm Zn. The I.P. survey detected only very weak anomalies in spite of the highly pyritic nature of some of the outcropping volcanics.

It is planned to close the grid up to 100 x 20 m in the zones of interest and to carry out more detailed mapping and sampling. A limited amount of I.P. will be run to assist in defining possible drill targets.

2. CONCLUSIONS

The altered pyritic tuffs which occur at Staverton are potential hosts for massive sulphide mineralisation by analogy with the known deposits within the Mt. Read Volcanics.

The geochemical anomalies detected to date are sufficiently encouraging as to warrant further work on a limited scale.

3. RECOMMENDATIONS

Follow-up work should be limited to zones of anomalous geochemistry and aim to define possible drilling targets within these zones.

4. INTRODUCTION

The Staverton grid covers 1.5 sq. km on the eastern side of Lake Barrington, 15 km south west of Sheffield in Northern Tasmania. The area is covered by E.L. 7/73 of 440 sq. km. (Asarco - C.R.A.E. Joint Venture).

The rocks in the area are Cambrian altered acid volcanics considered prospective for Cu-Pb-Zn mineralisation of the Mt. Lyell and Rosebery types.

Asarco pegged E.L. 7/73 in March 1973 and carried out a regional drainage sampling programme. Anomalies were detected in two small creeks draining into Lake Barrington immediately west of Staverton township. Asarco did further drainage sampling in both creeks and obtained higher results than in the initial samples, but no follow-up work was attempted (see Asarco reports).

In July 1976 C.R.A.E. entered into a Joint Venture on E.L. 7/73.

Exploration by C.R.A.E. commenced at Staverton in June 1977 and work completed up to February 1978 is the subject of this report.

Geological and geochemical work was carried out by P. Bertram and G. Purvis. The I.P. survey was undertaken by Scintrex Pty. Ltd.

5. WORK COMPLETED

The initial work comprised a traverse by boat along the eastern shore of Lake Barrington, and traverses up both anomalous creeks. Stream sediment, rock and soil samples were taken. This was followed by rock sampling on the 400 x 20 m grid.

Results are shown on the maps and appendices at the back of the report.

Scintrex carried out a brief gradient array I.P. survey in July 1977. The results are the subject of a separate report by A. Howland-Rose (see references).

J.G. Purvis.

REFERENCES

Barker R.G. 1974 Stream Sediment Sampling Survey E.L. 7/73 Paradise, Tasmania - Asarco (Australia) Pty. Ltd., Report

Barker R.G. 1975 E.L. 7/73 Paradise, Tasmania, Report for the year ending March 15th 1975. Asarco (Australia) Pty. Ltd. Report

Howland-Rose A.W. 1977 Brief Comments on a Gradient E.I.P. Survey over the Staverton Grid near Devonport, Northern Tasmania. Scintrex Pty. Ltd. Report.

KEYWORDS

Copper, Lead, zinc, acid volcanics, Cambrian, alteration, geol. mapping, detailed, geochem-soil, geochem-rock, geophys - I.P.

LOCATION

Burnie SK55-3 1:250,000 map sheet

LIST OF PLANS

Plan No.	Title	Scale
Tc 100	Geological Map Staverton Prospect E.L. 7/73	1:3000 (approx).
Tc 101	Sample Locations & Numbers Staverton Prospect E.L. 7/73	1:3000 (approx).

Tc 102	Geochemical Map - Lead Staverton Prospect E.L. 7/73	1:3000 (approx).
Tc 103	Geochemical Map - Zinc Staverton Prospect E.L. 7/73	1:3000 (approx).
Tc 104	Geochemical Map - Copper Staverton Prospect E.L. 7/73	1:3000 (approx).
Tc 105	Geochemical Map - Manganese Staverton Prospect E.L. 7/73	1:3000 (approx).

LIST OF APPENDICIES

APPENDIX I

ROCK SAMPLE RESULTS

GEOCHEMICAL ROCK SAMPLING LEDGER

Page No. .....

TENEMENT EL 7/73 D.P.O. No. .....

AREA/PROSPECT STAVERTON SAMPLE No's..... GEOLOGIST G.P. & P.B. DATE.....

PLAN REFERENCE..... ANALYSED BY.....

Sample No.		Metal Content in ppm. Pb	Zn	Cu	Ag	Mn			Geological observations
618149		15	18	2	<1	760			o/c: GRAPHITIC & LIMONITIC AV SCHIST.
618150		40	200	10	ND	340			SCREE: RED FERRUG. & GRAPHITIC(?) AV SCHIST.
618151		130	150	15	ND	1470			SCREE: VERY LIMONITIC AV SCHIST.
618155		20	30	10	ND	80			o/c: VEIN QTZ. ± SULPHIDES IN QTZ-SER. SCHIST.
618161		20	110	10	ND	2820			o/c: LIM. QTZ-SER. SCHIST AFTER TUFF ± MINOR GRANITE.
618163		20	30	10	ND	175			o/c: FERRUG. QTZ-SER. SCHIST (GRAPHITIC OR MANGANIFEROUS?)
618164		250	180	40	ND	1100			o/c: BEDDED TUFF-SHALE, TUFFACEOUS SLST. & MUDSTONE.
618167		20	90	15	ND	65			o/c: WEAKLY ALT., SLIGHTLY GRANITIC TUFF-SHALE.
618175		20	80	10	1	1470			o/c: QTZ-SER. SCHIST AFTER VITRIC TUFF; MINOR LIM
~~618176~~		~~15~~	~~40~~	~~6~~	~~1~~	~~10~~			~~o/c: MINOR QTZ-SER. SCHIST AFTER TUFF.~~
~~618177~~		~~15~~	~~20~~	~~6~~	~~1~~	~~10~~			~~o/c.~~
618582	900SE/380N	30	60	20	<1	240			o/c: CHLOR. WELDED TUFF ± 1-2% SULPHIDES.
618592	900SE/220N	20	90	2	<1	280			SCREE: CHLOR. QTZ-SER. SCHIST ± ↑1% SULPHIDES.
618598	900SE/120N	130	32	48	<1	30			SCREE: ALT. WELDED TUFF ± ↑10% LIM. AFTER SULPHIDES.
618611	900SE/140S	8	15	5	<1	60			SCREE: CHLOR. QTZ-SER. SCHIST ± ↑5% PITS AFTER SULPHIDES
618623	900SE/360S	18	50	2	<1	110			o/c: STR. ALT. CHLOR. TUFF ± ↑1% LIM. AFTER SULPHIDES.
618659	100SE/340S	28	32	18	<1	80			SCREE: FI.GR. CHLOR. SCHIST ± ↑1% PITS AFTER SULPHIDES.
618675	500SE/130N	1000	740	18	<1	4150			SCREE: QTZ-SER. SCHIST ± QTZ-VEINS ± ↑10% LIMONITE
618678	500SE/160N	640	140	15	<1	1300			o/c: QTZ-SER. SCHIST ± 1-2% LIM. AFTER SULPHIDES.
618681	500SE/190N	140	350	25	<1	2650			SCREE: ALT. AV. ± BANDED LIMONITE.
618682	500SE/200N	880	2350	130	<1	220			SCREE: QTZ-SER. SCHIST ± ↑5% LIM. BOXWORKS.

Page No.....

TENEMENT EL 7/73 GEOCHEMICAL ROCK SAMPLING LEDGER D.P.O. No.....

AREA/PROSPECT STAVERTON SAMPLE Nos. ..... GEOLOGIST PB DATE .....

PLAN REFERENCE..... ANALYSED BY.....

Sample No.		Metal Content in ppm.							Geological observations
		Pb	Zn	Cu	Ag	Mn			
618686	500SE/260N	65	280	210	<1	1700			SCREE: QTZ-SER. SCHIST ± ↑ 3% LIM. AFTER SULPH
618689	500SE/290N	42	720	48	<1	1700			SCREE: MOD ALT. FI.GR. TUFF ± ↑ 1% LIM. AFTER SULPH
618730	1300SE/80N	35	100	30	2	3200			SCREE: QTZ-SER. SCHIST ± ↑ 20% LIMONITE
618731	1300SE/85N	25	80	15	2	2100			SCREE: CHLOR ALT. AV ± ↑ 10% LIM. + VEIN QTZ
618737	1300SE/180N	25	125	5	2	1100			SCREE: STR. ALT. CHLOR. TUFF ± ↑ 10% LIM. + QTZITE PEBB
618739	1300SE/205N	20	130	5	2	150			SUB O/C: V. CHLOR. STR. ALT. TUFF ± SMALL PEBBLE
618741	1300SE/225N	20	90	20	2	1300			O/C: V. SILIC, V. CHLOR. ALT. AV ± ↑ 1% LIM.
618748	1300SE/340N	20	55	30	1	780			O/C: SILIC. FI.GR. WKLY. ALT. TUFF (?) OR LAVA
THE FOLLOWING SAMPLES TAKEN IN CREEK BETWEEN 500SE/140N AND 750SE/0:									
618781		40	410	40	2	740			SCREE: FI.GR. FOLD. TUFF ± LIM + Mn.
618782		20	55	5	1	120			SCREE: QTZ-SER. SCHIST ± ↑ 3% LIM. COMMON
618783		20	55	5	1	2800			SCREE: QTZ-SER. SCHIST ± ↑ 5% LIM + Mn.
618784		15	35	5	<1	300			SCREE: VEIN QTZ. ± LIM. AFTER SULPHIDES.
[redacted]									
[redacted]									
[redacted]									
618766	1300SE/3255	10	50	2	1	300			SUB O/C: QTZ-SER. SCHIST ± 2% PITS AFTER SULPH
618767	1300SE/340S	20	25	5	1	450			O/C: AS ABOVE.
618771	1300SE/400S	10	25	2	1	80			O/C: QTZ-SER. SCHIST ± PITS AFTER PY + LIM.
618776	1300SE/500S	10	20	<2	1	25			O/C: QTZ-SER. SCHIST ± ↑ 1% LIMONITE
618744	1300SE/280N	25	45	15	2	360			O/C: QTZ-SER SCHIST ± ↑ 2% LIMONITE

APPENDIX II

SOIL SAMPLE RESULTS

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TENEMENT EA 7/73 — GEOCHEMICAL SOIL SAMPLING LEDGER — Page No. 1

AREA/PROSPECT STAVERTON — SAMPLE Nos. — D.P.O. No.

PLAN REFERENCE — GEOLOGIST GP — DATE

ANALYSED BY ROBERTSON RESEARCH

A 9006

Grid Co-ordinate	Sample No.	Soil Composition					Soil Horizon	Sample		Bedrock			Metal Content in ppm.					Geological observations
		Rock %	Organic %	Sand %	Silt %	Clay %		Depth cm.	Colour	Outcrop	Concealed	Est. Depth to	Pb	Zn	Cu	Ag.	Mn	
	618152	10	40	20	25	5							560	1020	30	2	2650	STREAM SEDIMENT.
	618153	-	-	20	30	50	B	10	BROWN				310	290	38	1	400	SCREE : LIMONITIC QTZ-SERICITE SCHIST
	618154	35	5	20	20	20	B	20	"				25	24	8	ND	35	
	618156	25	15	20	30	10	C	20	BROWN	✓			20	32	4	ND	30	o/c: QTZ-SER SCHIST AFTER VITRIC XTAL TUFF ; MINOR LIM.
	618157	10	25	25	40	-							165	188	12	ND	75	STREAM SED : MAINLY LANDSLIDE MAT. — o/c ALT. TUFFS.
	618158	25	15	20	20	20	B	10	BROWN				200	68	50	1	740	
	618159	-	15	25	20	40	B	20	"				175	36	34	1	35	HOLE FAILED : SCHIST ; CLAYEY & SANDY SOIL.
	618160	50	5	20	25	-							875	124	14	2	800	STREAM SEDIMENT.
	618162	25	-	25	30	20	B		BROWN	✓			65	60	20	1	25	o/c: BEDDED TUFF-SHALES, TUFFACEOUS SLST. & MUDSTONE
	618165	15	5	25	25	30	B		BROWN	✓			50	96	16	1	25	o/c: HIGHLY ALT. SILICIFIED DACITIC CRYSTAL & TUFFACEOUS SLST.
	618166	25	5	20	10	40			"				40	56	20	ND	50	SCREE : HIGHLY ALT. VITRIC TUFF-SHALES, BEDDED + CHERT.
	618168	50	-	20	30	-							75	116	30	1	1080	STREAM SED : MUCH BASALT FLOAT IN CREEK
	618169	15	-	30	15	40							25	32	12	1	45	BANK SAMPLE : ALLUVIAL & MINOR RV SOIL.
	618170	10	5	25	30	30							25	40	16	1	175	BANK SAMPLE : " " " " " " .
	618171	40	-	10	20	30			YELLOW				15	16	6	1	35	
	618172	20	15	20	15	30			BROWN	✓			60	60	18	1	150	o/c + SCREE : QTZ-SER. SCHIST AFTER VIR. TUFFS ; RV SOIL.
	618173	10	-	20	20	50			"				165	96	28	2	50	SCREE : HEAVY ALT. TUFFACEOUS GRIT & VITRIC SISTS ; RV SOIL.
	618174	20	5	10	20	45			"	✓			40	52	32	1	120	o/c: QTZ-SER. SCHIST AFTER VITRIC TUFF ; MINOR LIM.
	618176	35	5	10	10	45			YELLOW	✓			15	40	6	1	10	o/c: HIGHLY ALT. QTZ-SER SCHIST AFTER XTAL TUFF.
	618177	30	5	10	20	35			"	✓			15	20	6	1	10	o/c: " " " " " " " "

* Check assay value.

GEOCHEMICAL SOIL SAMPLING LEDGER

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TENEMENT EL 7/73 D.P.O. No.

AREA/PROSPECT STAVERTON SAMPLE Nos.

GEOLOGIST PB DATE 26-11-77

PLAN REFERENCE 10 SOIL SAMPLING ANALYSED BY [redacted] ALS

A 9006

Grid Co-ordinate	Sample No.	Soil Composition					Soil Horizon	Sample		Bedrock			Metal Content in ppm						Geological observations
		Rock %	Organic %	Sand %	Silt %	Clay %		Depth cm.	Colour	Outcrop	Concealed	Est. Depth to	Pb	Zn	Cu	Ag	Mn		
LINE	100 SE																		
140 N	618636	30	10	20	20	20	B	40	YELLOW				15	20	5	<1	45		HOLE FRAG & SCREE: STR ALT TUFF & 1% MN, 1% QTZ VEIN.
120 N	618637	30	5	30	35	–	B	30	GREY				5	10	2	<1	30		HOLE FRAG & SCREE: 40% QTZ-SER SCHIST, 60% QTZ & QTZ VEIN.
100 N	618638	30	10	25	25	10	B	40	BROWN				30	70	15	2	110		HOLE FRAGS: SILIC, CHLORITIC WELDED(?) TUFF.
80 N	618639	30	5	15	20	30	B	60	BROWN				25	35	10	1	95		HOLE FRAG & SCREE: 60% MOD ALT TUFF & 1% QTZ VEIN AFTER SCHIST, 39% QTZ.
60 N	NO SAMPLE																		
40 N	618640	30	10	15	20	25	B	60	BROWN				20	20	5	1	40		HOLE FRAG: SILIC, CHLOR. MOD. ALTERED TUFF.
20 N	NO SAMPLE																		
0	618641	20	–	25	50	5	B	30	GREY				10	15	5	<1	20		HOLE FRAG: SILIC WELDED TUFF & MINOR MN
20S	618642	40	10	10	20	20	B	50	YELLOW				15	25	5	1	25		HOLE FRAG & SCREE: STR ALT CHLOR TUFF + QUARTZ.
40S	618643	40	5	20	20	15	B	50	BROWN				35	35	15	1	55		HOLE FRAG: CHLORITIC QTZ-SERICITIC SCHIST.
60S	618644	30	5	25	20	20	B	60	"				70	40	25	2	85		HOLE FRAG: QTZ-SER SCHIST; CLAYEY AT SOIL
80S	618645	20	30	20	25	5	B	30	"				30	25	10	1	85		HOLE FRAG & SCREE: QTZ-SERICITE SCHIST
100S	618646	50	10	15	20	5	B	70	"				190	45	20	<1	340		HOLE FRAG & SCREE: " " " .
120S	618647	30	10	20	25	15	B	50	"				480	60	20	<1	2100		HOLE FRAG & SCREE: " " " .
140S	618648	30	10	15	25	20	B	50	"				180	55	15	1	240		HOLE FRAG & SCREE: " " " .
160S	618649	40	5	20	15	20	B	40	"				90	75	35	2	200		HOLE FRAG & SCREE: MOD. ALT. RHY FRAMED TUFF.
180S	618650	40	5	10	15	30	B	60	"				80	65	15	1	105		HOLE FRAG & SCREE: MOD ALT. CHLOR. SANDY TUFF.
200S	618651	40	10	20	30	–	B	30	"				165	70	30	1	340		HOLE FRAG & SCREE: QTZ-SER SCHIST AFTER SANDY TUFF.
220S	618652	40	10	15	30	5	B	50	"				165	80	25	2	520		HOLE FRAG & SCREE: " " " " " "
240S	618653	40	10	15	25	10	B	40	"				230	80	40	1	270		HOLE FRAG & SCREE: " " " " " "
260S	618654	30	10	15	25	20	B	50	"				160	75	25	1	100		HOLE FRAG & SCREE: " " " " " "
280S	618655	30	10	20	20	20	B	60	"				160	80	20	1	160		HOLE FRAG & SCREE: AS ABOVE & 05% QTZ AFTER SCHIST.
300S	618656	30	10	20	30	10	B	60	"				40	40	10	1	210		HOLE FRAG & SCREE: CHLOR QTZ-SER SCHIST AFTER SANDY TUFF
320S	618657	30	10	15	25	20	B	40	"				50	45	15	1	140		HOLE FRAG & SCREE: MOD ALT. CHLOR. TUFF (ASH?)
340S	618658	40	15	15	20	10	B	40	"				55	60	30	2	360		HOLE FRAG & SCREE: FINE CHL SCHIST & 1% QTZ VEIN AFTER SCHIST.
360S	618660	30	10	15	40	5	B	40	"				45	70	10	2	420		HOLE FRAG: QTZ-SER SCHIST AFTER FINE TUFF.
380S	618661	40	10	20	25	5	B	50	"				35	65	15	<1	290		HOLE FRAG & SCREE: MOD ALT CHLOR. SANDY TUFF + VEIN QTZ.
400S	618662	50	5	15	20	10	B	40	"				60	85	20	1	440		HOLE FRAG & SCREE: " " " " " " " .
420S	618663	40	15	30	15	–	B	40	"				55	55	25	1	440		HOLE FRAG & SCREE: STR ALT CHLORITIC GRITTY TUFF.
440S	618664	30	5	25	40	–	C	40	"	✓			40	45	15	1	240		O/C: CHLORITIC QTZ-SERICITE SCHIST.
460S	618665	40	10	10	20	20	B	40	"				30	85	25	1	410		HOLE FRAG & SCREE: MOD ALT. CHLORITIC SANDY TUFF.
480S	618666	50	10	15	15	10	B	40	"				90	80	25	<1	600		HOLE FRAG & SCREE: CHLOR QTZ-SER SCHIST AFTER FINE TUFF.
500S	618667	30	15	20	30	5	B	30	"				50	95	40	1	1700		SCREE: BASALT & WKLY ALT & FELDSPATHIC TUFF.
520S	618668	20	20	25	30	5	C	30	"	✓			45	85	30	1	280		O/C: CHLOR. QTZ-SER SCHIST AFTER SANDY TUFF.
540S	618669	30	20	20	30	–	C	40	"	✓			40	100	30	2	540		O/C: " " " " " " "

* Check assay value.

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TENEMENT EL 7/73 — GEOCHEMICAL SOIL SAMPLING LEDGER — D.P.O. No.

AREA/PROSPECT STAVERTON — SAMPLE Nos. — GEOLOGIST PB — DATE 24-11-77

PLAN REFERENCE 1P SOIL SAMPLING — ANALYSED BY [redacted] ALS

A 9006

Grid Co-ordinate	Sample No.	Soil Composition: Rock %	Organic %	Sand %	Silt %	Clay %	Soil Horizon	Sample: Depth cm.	Colour	Bedrock: Outcrop	Concealed	Est. Depth to	Metal Content in ppm: Pb	Zn	Cu	Ag	Mn	Geological observations
LINE 100SE	(CONT.)																	
560 S	618670	50	15	15	20	–	B	50	BROWN				40	75	50	1	940	HOLE FRAGMENTS: HBD ALT. SANDY TUFF.
STREAM	SEDIMENT	SAMPLING:																
Samples	taken in	creek	between		500	SE	140 N	and	750	SE	on	baseline.	(Samples	taken	at	100m	intervals).	
500 SE/140N	618778												1300	1100	45	4	3100	
	618779												760	800	35	4	1500	
*	618780												330	920	30	2	1700	
750 SE	618785												270	880	30	2	1600	
	618786												270	780	35	2	2000	
900SE/149S	618787												45	170	25	1	760	

* Check assay value.

TENEMENT EL 7/73 — GEOCHEMICAL SOIL SAMPLING LEDGER — Page No. 4

AREA/PROSPECT STAVERTON — SAMPLE Nos. — D.P.O. No.

PLAN REFERENCE 1" SOIL SAMPLING — GEOLOGIST PB — DATE 25-11-77

ANALYSED BY [redacted] ALS

A 9006

Grid Co-ordinate	Sample No.	Soil Composition: Rock %	Organic %	Sand %	Silt %	Clay %	Soil Horizon	Sample: Depth cm.	Colour	Bedrock: Outcrop	Concealed	Est. Depth to	Metal Content in ppm: Pb	Zn	Cu	Ag	Mn		Geological observations
LINE	500 SE																		
340 N	618691	20	15	20	30	10	C	40	BROWN	✓			120	165	55	2	1800		o/c: QTZ-SER. SCHIST ± MINOR LIM & Mn STAINING.
320 N	618690	30	10	25	30	5	B	40	"				165	210	65	2	1700		HOLE FRAG & SCREE: MOD. ALT. CHLOR. FL. GR. TUFF ± ↑1% LIM.
300 N	618688	40	10	15	25	10	B	40	"				175	250	60	2	1500		SCREE: MOD. ALT. FL. GR. TUFF ± ↑5% LIM.
280 N	618687	30	10	20	30	10	B	50	"				180	260	65	2	1000		HOLE FRAG & SCREE: STR. ALT. FL. GR. TUFF ± ↑2% LIM. + Mn.
260 N	618685	30	15	20	30	5	B	40	"				190	175	55	2	500		HOLE FRAG & SCREE: QTZ-SER. SCHIST ± ↑3% LIM. AFTER SILICIFIED
240 N	618684	30	10	25	25	10	B	40	"				1100	300	70	2	460		HOLE FRAGS & SCREE: QTZ-SER. SCHIST ± ↑1% LIM. + Mn + IRON QTZ.
220 N	618683	40	20	10	20	10	C	40	"	✓			1800	370	75	5	880		o/c: QTZ-SER. SCHIST AFTER GRITTY TUFF ± MINOR LIM.
200 N	618680	30	20	20	25	5	C	40	"	✓			1700	310	95	5	560		o/c: STR. ALT. FELDSPATHIC TUFF ± Mn STAINING.
180 N	618679	50	10	15	20	5	B	50	"				1500	310	110	8	540		HOLE FRAGS/SCREE: CHLOR. QTZ-SER. SCHIST AFTER GRITTY TUFF
160 N	618677	50	10	20	20	—	C	40	"	✓			1100	270	75	4	520		o/c: QTZ-SER. SCHIST AFTER WELDED TUFF ± 1-2% LIM.
140 N	618676	30	5	20	15	30	B	60	"				1300	480	110	7	860		HOLE FRAG & SCREE: CHLOR. QTZ-SER. SCHIST AFTER FL. GR. TUFF.
120 N	618674	50	20	10	20	—	B	40	KHAKI				410	310	30	2	2700		HOLE FRAG & SCREE: QTZ-SER. SCHIST ± ↑3% LIMONITE.
100 N	618673	40	10	15	25	10	B	30	BROWN				210	70	10	1	560		HOLE FRAG & SCREE: QTZ-SER. SCHIST ± MINOR LIM. AFTER CARBON.
80 N	NO SAMPLE																		
60 N	618672	40	15	20	25	—	B	50	YELLOW				20	20	5	<1	35		HOLE FRAG & SCREE: QTZ-SER. SCHIST AFTER WELDED TUFF.
40 N	NO SAMPLE																		
20 N	618671	40	20	15	20	5	B	30	YELLOW				15	15	2	<1	25		HOLE FRAG & SCREE: QTZ-SERICITIC SCHIST.
0	618692	60	10	10	20	—	B	40	"				15	5	5	<1	10		HOLE FRAG & SCREE: QTZ-SER. SCHIST AFTER WELDED TUFF.
20 S	618693	40	10	25	15	10	C	50	"	✓			30	10	5	<1	20		o/c: CHLORITIC QTZ-SER. SCHIST AFTER WELDED TUFF.
40 S	618694	40	10	20	20	10	C	30	"	✓			20	10	5	<1	15		o/c: " " " " " " "
60 S	NO SAMPLE																		
80 S	618695	40	10	25	20	5	C	30	YELLOW	✓			25	25	5	<1	185		o/c: QTZ-SER. SCHIST AFTER XTAL TUFF.
100 S	618696	60	10	15	15	—	C	40	KHAKI	✓			70	340	5	<1	1500		o/c: QTZ-SER. SCHIST AFTER WELDED TUFF.
120 S	NO SAMPLE																		
140 S	NO SAMPLE																		
160 S	618697	40	10	15	25	10	B	50	YELLOW				60	15	15	1	95		HOLE FRAG & SCREE: STR. ALT. FL. GR. WELDED TUFF.
180 S	618698	40	5	20	20	15	B	60	"				290	15	20	<1	30		HOLE FRAG & SCREE: " " " " " "
200 S	NO SAMPLE																		
220 S	618699	50	5	10	15	20	C	50	YELLOW	✓			45	35	5	1	70		o/c: QTZ-SER. SCHIST AFTER XTAL TUFF.
240 S	NO SAMPLE																		
260 S	618700	40	10	20	25	5	C	50	YELLOW	✓			35	50	2	<1	45		o/c: QTZ-SER. SCHIST AFTER WELDED TUFF.
280 S	618701	50	10	20	20	—	B	60	"				90	25	5	<1	100		HOLE FRAG & SCREE: QTZ-SER. SCHIST AFTER XTAL TUFF.
300 S	618702	40	10	20	30	—	B	50	"				60	25	5	<1	270		HOLE FRAG & SCREE: QTZ-SERICITIC SCHIST.
320 S	618703	40	10	25	25	—	B	40	PINK				30	20	5	<1	330		HOLE FRAG & SCREE: CHLOR. QTZ-SER. SCHIST AFTER WELDED TUFF.
340 S	NO SAMPLE																		

* Check assay value.

TENEMENT EL 7/73 — GEOCHEMICAL SOIL SAMPLING LEDGER — Page No. 5

AREA/PROSPECT STAVERTON — SAMPLE Nos. — D.P.O. No.

PLAN REFERENCE 1" SOIL SAMPLING — GEOLOGIST PB — DATE 25-11-77

ANALYSED BY [redacted] ALS

A 9006

Grid Co-ordinate	Sample No.	Soil Composition					Soil Horizon	Sample		Bedrock			Metal Content in ppm.					Geological observations
		Rock %	Organic %	Sand %	Silt %	Clay %		Depth cm.	Colour	Outcrop	Concealed	Est. Depth to	Pb	Zn	Cu	Ag	Mn	
LINE 500SE	(CONT.)																	
360 S	618704	40	5	15	20	20	B	50	BROWN				60	70	10	1	520	HOLE FRAGS & SCREE: MOD ALT. CHLOR. XTAL. TUFF.
380S	618705	30	10	20	30	10	B	40	"				45	50	10	1	660	HOLE FRAGS & SCREE: STR. ALT. CHLOR. SANDY TUFF.
400 S	618706	30	15	20	25	10	B	20	"				60	70	10	1	520	HOLE FRAG & SCREE: MOD ALT. CHLOR. XTAL. TUFF.
420S	618707	30	15	15	20	20	B	40	"				85	75	10	1	240	HOLE FRAG & SCREE: " " " " " .
440 S	618708	60	10	15	15	-	B	60	"				20	60	5	<1	320	HOLE FRAGS & SCREE: " " " " " .
460 S	618709	60	10	15	15	-	B	40	PINK				15	15	5	<1	270	HOLE FRAGS & SCREE: FINE GRAINED TUFF & SHALES
480 S	618710	-	-	-	-	100	B	60	YELLOW				35	65	2	<1	35	SCREE: STR. ALT TUFF & <1% LIM; PURELY CLAY SOIL
500 S	618711	30	10	25	25	10	B	40	PINK				25	35	2	<1	145	HOLE FRAGS & SCREE: STR. ALT. CHLOR. SANDY TUFF.

* Check assay value.

271017

APPENDIX II PAGE 6 of 9

TENEMENT ..... GEOCHEMICAL SOIL SAMPLING LEDGER Page No. 6

AREA/PROSPECT STAVERTON SAMPLE Nos. ..... D.P.O. No. .....

PLAN REFERENCE 1° SOIL SAMPLING GEOLOGIST PB DATE 22-11-77

A 9006 ANALYSED BY [redacted] ALS

Grid Co-ordinate	Sample No.	Soil Composition					Soil Horizon	Sample		Bedrock			Metal Content in ppm.						Geological observations
		Rock %	Organic %	Sand %	Silt %	Clay %		Depth cm.	Colour	Outcrop	Con-cealed	Est. Depth to	Pb	Zn	Cu	Ag	Mn		
LINE	900 SE																		
380N	618583	20	20	20	40	-	C	60	BROWN	✓			180	125	115	3	800		o/c: CHLOR. WELDED TUFF ∓ 1-2% SULPHIDES.
360N	618584	30	5	20	45	-	B	50	"				200	90	95	2	740		HOLE FRAG & SCREE: CHLORITIC FINE GRAINED TUFF.
340N	618585	40	10	20	25	5	B	30	"				800	130	90	3	2100		HOLE FRAGS & SCRE: WKLY. ALT. FI. GR. TUFF ∓ LIM. STAINS.
320N	618586	30	15	20	30	5	B	40	"				90	45	35	2	900		HOLE FRAGS: WKLY ALT. CHLOR. FI. GR. TUFF & GRITTY TUFF.
300N	618587	40	10	20	30	-	B	60	"				90	250	35	2	1800		HOLE FRAG & SCREE: ALT. MED. GR. TUFF (GRITTY)
280N	618588	30	10	-	60	-	B	40	"				50	35	20	2	235		HOLE FRAGS & SCREE: WKLY ALT. SANDY TUFF.
260N	618589	20	10	20	40	10	B	60	"				65	30	20	2	130		HOLE FRAGS & SCREE: ALT. CHLOR. GRITTY TUFF ∓ MINOR AMTS OF PY.
240N	618590	20	15	20	40	5	B	40	"				320	50	40	2	580		SUB o/c: CHLOR. QTZ SCHIST AFTER FI. GR. VITRIC TUFF.
220N	618591	30	40	15	15	-	B	30	"				105	60	20	2	900		HOLE FRAGS & SCREE: CHLOR QTZ SCHIST AFTER WELDED TUFF
200N	618593	50	10	10	10	20	B	40	"				220	30	50	1	275		HOLE FRAGS & SCREE: MOD ALT. CHLOR. WELDED TUFF.
180N	618594	30	10	25	30	5	B	50	"				250	30	60	2	520		HOLE FRAGS & SCREE: " " " " "
160N	618595	20	20	25	35	-	B	30	"				280	35	80	2	300		HOLE FRAGS & SCREE: ALT. CHLOR. TUFF ∓ 1% PITS AFTER PY.
140N	618596	40	15	10	25	10	B	50	"				145	30	25	1	95		HOLE FRAGS & SCRE: STRONGLY ALT. CHLOR. WELDED TUFF ∓ MINOR LIM.
120N	618597	30	10	20	30	10	B	60	"				260	40	65	2	160		HOLE FRAG: MOD ALT. PY; SCREE: ALT. TUFF ∓ 1% LIM AFTER SULPHIDES.
100N	618598	40	5	25	15	15	B	60	"				240	30	80	2	45		HOLE FRAG: FINE GRAINED MOD. ALT. TUFF.
80N	618600	-	15	10	15	60	B	50	"				100	20	30	2	35		V. CLAYEY SOIL; HOLE FRAG: MOD. ALT. (WELDED?) TUFF.
60N	618601	10	-	-	10	80	B	60	"				540	45	70	2	35		V. CLAYEY SOIL; HOLE FRAG: " " " "
40N	618602	40	20	10	30	-	B	30	"				600	25	20	1	15		SCREE: CHLOR. WKLY ALT. TUFF ∓ 2-3% LIM. AFTER SULPHIDES.
20N	618603	40	10	15	15	20	B	30	"				620	100	90	2	500		HOLE FRAGS & SCREE: WKLY. ALT. FI. GR. CHLORITIC TUFF.
0	618604	50	5	20	25	-	B	60	"				620	95	100	2	330		HOLE FRAGS & SCREE: MOD. ALT. CHLORITIC TUFF.
20S	NO SAMPLE																		
40S	618605	40	10	20	25	5	B	50	"				280	75	130	2	280		HOLE FRAGS & SCREE: WKLY. ALT. MED GR CHLOR. TUFF (WELDED?)
60S	618606	50	20	15	15	-	B	40	"				300	150	150	2	560		HOLE FRAGS: MOD. ALT. CHLOR. GRITTY TUFF.
80S	618607	30	5	10	15	40	B	50	"				620	280	210	2	720		HOLE FRAGS & SCREE: MOD. ALT. FI. GR CHLORITIC TUFF
100S	618608	30	15	20	30	5	B	40	"				640	220	100	2	2800		HOLE FRAGS: MOD ALT. CHLOR. SANDY TUFF ∓ MINOR LIM.
120S	618609	20	5	10	15	50	B	50	"				250	80	35	2	1500		HOLE FRAGS & SCREE: CHLOR. QTZ-SER SCHIST AFTER GRITTY TUFF ∓ MINOR LIM.
140S	618610	30	10	10	20	30	B	30	"				90	40	20	2	250		HOLE FRAGS & SCREE: CHLOR. SCHIST ∓ 1% PITS AFTER SULPHIDES.
160S	618612	20	50	20	10	-	B	30	"				30	50	20	1	2300		HOLE FRAGS & SCREE: CHLORITIC QTZ-SERICITE SCHIST.
180S	618613	20	10	15	15	40	B	70	"				30	20	10	1	120		HOLE FRAGS & SCREE: QTZ-SER. SCHIST ∓ 1% LIM.
200S	618614	30	10	10	10	40	B	60	"				30	35	10	1	580		HOLE FRAGS: CHLOR. QTZ-SER SCHIST + VEIN QTZ.
220S	618615	40	10	15	15	20	B	40	"				60	90	25	1	390		HOLE FRAGS: CHLORITIC QTZ-SER. SCHIST.
240S	618616	40	15	15	20	10	B	40	"				60	50	15	1	1500		HOLE FRAGS & SCREE: STR ALT. CHLOR. SANDY TUFF + VEIN QTZ.
260S	618617	40	20	15	15	10	B	30	"				115	20	20	1	620		HOLE FRAGS & SCREE: QTZ-SER SCHIST AFTER FI. GR. TUFF.
280S	618618	10	5	35	50	20	B	60	"				30	20	10	1	280		HOLE FRAGS & SCREE: SHALES + WKLY ALT FI. GR TUFF + VEIN QTZ
300S	618619	50	10	15	20	5	B	40	"				110	50	20	1	160		HOLE FRAG & SCREE: FI. GR. TUFF + SHALES + MOD. ALT. TUFF.

* Check assay value.

Page No. 7

TENEMENT

GEOCHEMICAL SOIL SAMPLING LEDGER

D.P.O. No.

AREA/PROSPECT STAVERTON SAMPLE Nos.

GEOLOGIST PB DATE 22-11-77

PLAN REFERENCE 1° SOIL SAMPLING ANALYSED BY [redacted] ALS

A 9006

Grid Co-ordinate	Sample No.	Soil Composition					Soil Horizon	Sample		Bedrock			Metal Content in ppm.						Geological observations
		Rock %	Organic %	Sand %	Silt %	Clay %		Depth cm.	Colour	Outcrop	Concealed	Est. Depth to	Pb	Zn	Cu	Ag	Mn		
LINE 900SE (CONT.)																			
3205	618620	30	10	20	10	30	B	40	BROWN				25	35	15	1	270		HOLE FRAGS & SCREE: MOD ALT. CHLOR GRITTY TUFF.
3405	618621	30	10	20	30	10	B	40	"				35	25	5	1	25		HOLE FRAGS & SCREE: MOD ALT. CHLOR. TUFF + SHALES.
3605	618622	40	15	15	20	10	C	30	GREY	✓			<5	5	5	<1	10		o/c: STR ALT. CHLOR (WELDED?) TUFF 2 1% LIM. AFTER SAMPLE
3805	618623	40	5	10	15	30	B	60	YELLOW				15	20	5	2	25		SCREE: MOD. ALT. FI. BR TUFF + MINOR VEIN QTZ.
4005	618625	40	10	20	25	5	B	60	GREY				<5	5	<2	1	5		HOLE FRAGS & SCREE: CHLOR QTZ-SER. SCHIST & MINOR LIM.
4205	618626	50	15	15	20	-	B	70	"				5	5	<2	<1	<5		HOLE FRAGS & SCREE: CHLORITIC QUARTZ-SERICITE SCHIST.
4405	618627	40	20	15	25	-	B	50	"				<5	5	<2	<1	<5		HOLE FRAGS & SCREE: QTZ-SER. SCHIST AFTER GRITTY TUFF.
4605	618628	60	10	10	20	-	B	30	"				<5	5	2	<1	5		HOLE FRAGS & SCREE: MOD ALT. GRITTY TUFF + MINOR VEIN QTZ.
4805	618629	60	5	20	15	-	B	60	"				5	10	2	<1	20		HOLE FRAGS & SCREE: QUARTZ-SERICITE SCHIST.
5005	618630	60	-	20	20	-	B	60	BLACK				10	5	2	1	15		HOLE FRAGS: QTZ-SER SCHIST (SOIL & SOME FRAGS GRANITIC?)
5205	618631	40	10	30	20	-	B	60	GREY				5	5	<2	<1	5		HOLE FRAGS: QUARTZ-SERICITE SCHIST.
5405	618632	60	20	10	10	-	B	30	"				10	10	2	<1	10		HOLE FRAGS & SCREE: QTZ-SER SCHIST AFTER GRITTY TUFF
5605	618633	50	10	20	20	-	B	50	"				10	5	2	1	5		HOLE FRAGS: QUARTZ-SERICITE SCHIST.
5805	618634	30	10	20	30	10	B	40	"				5	5	2	1	10		HOLE FRAGS: QTZ-SER. SCHIST + VEIN QUARTZ
6005	618635	40	10	20	20	10	B	30	"				10	5	2	<1	5		HOLE FRAGS: " " " " " "

* Check assay value.

TENEMENT E1 7/73 — GEOCHEMICAL SOIL SAMPLING LEDGER — Page No. 8

AREA/PROSPECT STAVERTON — SAMPLE Nos. — D.P.O. No.

PLAN REFERENCE 1° SOIL SAMPLING — GEOLOGIST PB — DATE 6-12-77

A 9005 — ANALYSED BY ALS

Grid Co-ordinate	Sample No.	Soil Composition: Rock %	Organic %	Sand %	Silt %	Clay %	Soil Horizon	Sample: Depth cm.	Colour	Bedrock: Outcrop	Concealed	Est. Depth to	Metal Content in ppm: Pb	Zn	Cu	Ag	Mn	Geological observations
LINE	1300 SE																	
340 N	NO SAMPLE																	
320 N	618747	30	10	20	40	-	B	40	BROWN	✓			150	60	20	2	1300	o/c: MOD. ALT. FERRUG. CRYSTAL TUFF.
300 N	618746	30	15	20	30	5	B	40	"				90	50	15	2	200	SCREE: WKLY. ALT. MED GR. XTAL TUFF ± MN STAINING.
280 N	618745	60	10	10	10	10	B	30	"	✓			120	40	15	2	600	o/c: QTZ-SER SCHIST ± ↑ 2% LIMONITE.
260 N	618743	40	15	20	20	5	B	40	"	✓			30	45	15	2	1000	o/c: WKLY. ALT. MED GR. MOD. SILIC. XTAL TUFF.
240 N	618742	40	10	20	20	10	B	50	"				20	45	10	2	1800	HOLE FRAGS & SCREE: 50% SER. ALT. AN, 50% SER. ALT. FELD TUFF
220 N	618740	30	10	25	30	5	B	30	"				20	30	5	2	560	HOLE FRAGS. FINE GRAINED MOD. ALT. TUFF.
200 N	618738	30	10	30	25	5	B	30	"				10	20	5	1	1500	HOLE FRAGS & SCREE: MOD. ALT. CHLOR. XTAL. TUFF.
180 N	618736	30	5	20	25	20	B	60	"				15	25	10	2	310	HOLE FRAGS & SCREE: SER. ALT. V. CHLORITIC TUFF ± MINOR LIM.
160 N	618735	40	10	10	20	20	B	60	"				20	30	10	1	540	HOLE FRAG & SCREE: MOD. ALT. CHLORITIC GRITTY TUFF.
140 N	618734	50	15	10	20	5	B	40	"				15	20	15	1	1400	HOLE FRAGS & SCREE: STR. ALT. FELD. TUFF; VEIN QTZ.
120 N	618733	40	10	10	10	30	B	50	"				20	30	40	2	7500	HOLE FRAG & SCREE: STR. ALT. FELDSPATHIC TUFF.
100 N	618732	50	10	20	10	10	B	30	"				50	45	25	2	2200	HOLE FRAG & SCREE: STR. ALT. FELD TUFF + VEIN QTZ (FRAGS.)
80 N	618729	20	10	20	30	20	B	90	"				150	185	35	2	4800	HOLE FRAGS: QUARTZ-SERICITE SCHIST.
60 N	618728	40	10	5	15	30	B	60	"				25	35	30	2	1800	HOLE FRAGS: QTZ-SER SCHIST. CLAYEY ALT SOIL.
40 N	NO SAMPLE												[redacted]					
20 N	618726	40	5	5	10	40	B	30	"				70	60	10	2	620	HOLE FRAG & SCREE: QTZ-SER SCHIST ± MINOR LIM. AFTER SULPHIDE
0	618725	40	10	10	20	20	B	30	"				40	30	10	2	660	HOLE FRAGS & SCREE: STRONGLY ALT. CRYSTAL TUFF.
20 S	NO SAMPLE																	
40 S	618749	50	5	10	15	20	B	50	"				25	60	15	2	420	HOLE FRAGS & SCREE: QTZ-SER. SCHIST; CLAYEY ALT SOIL.
60 S	618750	40	5	15	20	20	B	60	"				30	40	20	1	900	HOLE FRAGS & SCREE: " " " " " "
80 S	618751	40	5	10	15	30	B	60	"				40	50	15	2	195	HOLE FRAGS & SCREE: " " " " " "
100 S	618752	30	5	5	10	50	B	60	"				30	45	15	1	210	HOLE FRAGS & SCREE: " " " " " "
120 S	618753	30	10	20	20	20	B	40	"				30	40	10	1	440	HOLE FRAGS & SCREE: QTZ-SER. SCHIST AFTER XTAL TUFF; V. LIMONITIC
140 S	618754	40	10	15	15	20	B	60	"				25	40	10	2	110	HOLE FRAGS & SCREE: " " " " " " " "
160 S	618755	50	15	20	15	-	B	20	"				20	50	10	2	540	HOLE FRAGS & SCREE: MOD. ALT. WKLY CHLOR. XTAL TUFF.
180 S	618756	40	5	5	10	40	B	60	YELLOW				20	10	5	1	90	SCREE: MOD ALT. CRYSTAL TUFF; CLAYEY SOIL.
200 S	618757	20	5	15	20	40	B	40	BROWN				10	10	<2	1	10	HOLE FRAGS & SCREE: QTZ-SER SCHIST AFTER XTAL TUFF; CLAYEY SOIL
220 S	618758	50	10	15	25	-	B	30	GREY				15	5	<2	<1	50	HOLE FRAGS & SCREE: QTZ-SER SCHIST AFTER WELDED TUFF + VEIN QTZ.
240 S	618759	40	10	10	30	10	C	40	YELLOW	✓			10	10	5	1	35	o/c: QTZ-SER. SCHIST AFTER XTAL OR WELDED TUFF.
260 S	618760	50	5	15	15	15	C	50	GREY	✓			10	5	2	1	20	o/c: " " " " " " " "
280 S	618761	60	-	20	15	5	B	60	"				10	2	<2	1	10	HOLE FRAG & SCREE: QTZ-SER SCHIST AFTER WELDED TUFF.
300 S	618762	65	-	10	15	10	C	70	"	✓			10	2	<2	<1	5	o/c: QTZ-SER. SCHIST AFTER WELDED TUFF + MINOR VEIN QTZ.
320 S	618764	50	5	25	15	5	B	40	"				10	2	<2	<1	10	HOLE FRAGS & SCREE: AS ABOVE
340 S	618765	70	-	20	10	-	C	40	"	✓			10	2	2	1	25	o/c: QTZ-SER. SCHIST AFTER WELDED TUFF + MINOR VEIN QTZ.

* Check assay value.

TENEMENT EL 7/73 — GEOCHEMICAL SOIL SAMPLING LEDGER — Page No. 9

AREA/PROSPECT STAVERTON — SAMPLE Nos. — D.P.O. No.

PLAN REFERENCE 1" SOIL SAMPLING — GEOLOGIST PB — DATE 2-12-77

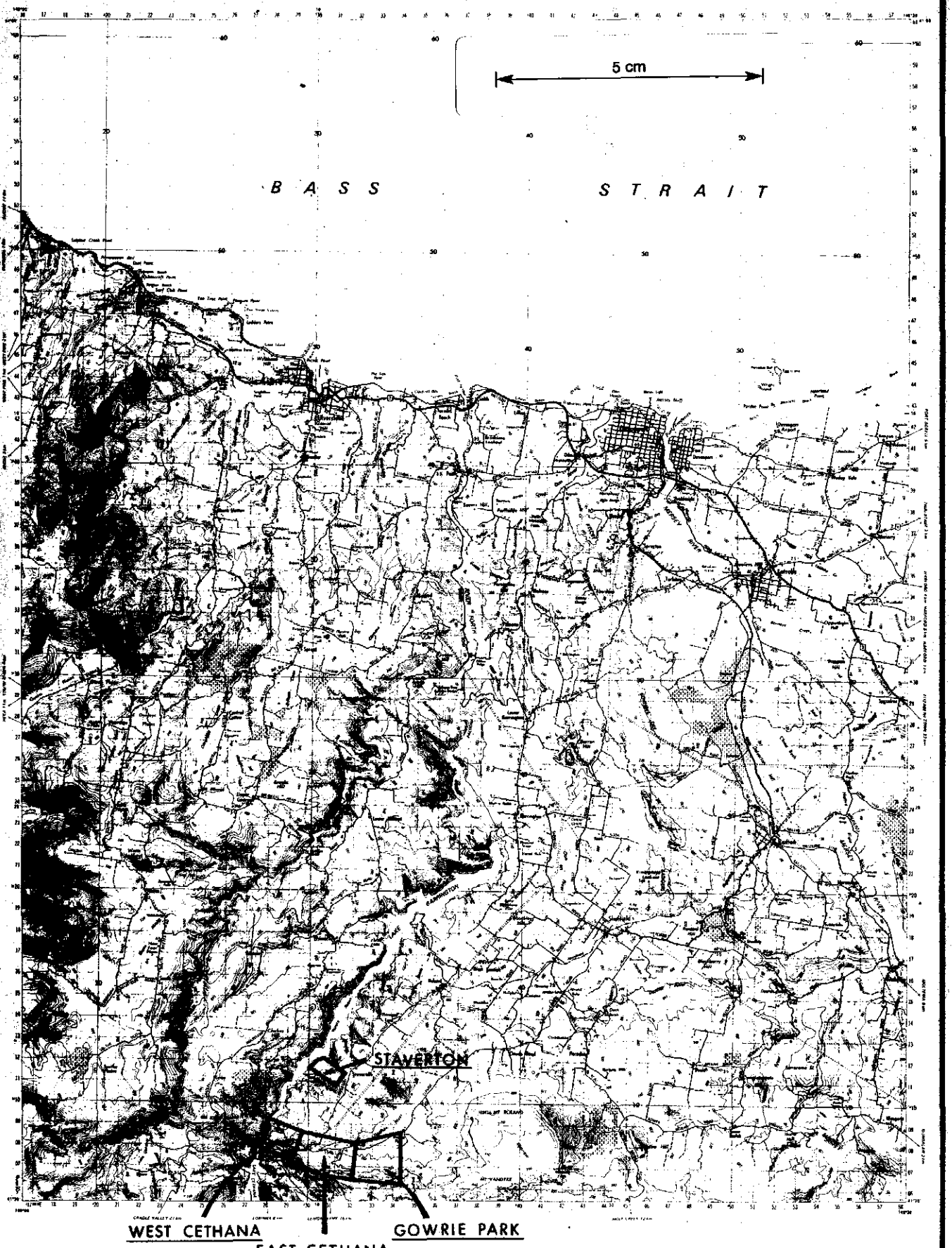
ANALYSED BY ALS

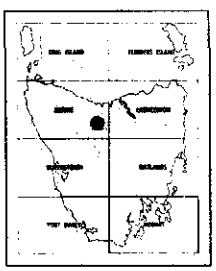
A 9006

Grid Co-ordinate	Sample No.	Soil Composition: Rock %	Organic %	Sand %	Silt %	Clay %	Soil Horizon	Sample: Depth cm.	Colour	Bedrock: Outcrop	Concealed	Est. Depth to	Metal Content in ppm: Pb	Zn	Cu	Ag	Mn		Geological observations
LINE 1300 SE	(CONT.)																		
360 S	618768	70	-	20	10	-	B	70	YELLOW				10	5	<2	<1	20		HOLE FAILED @ SCREE: QTZ-SER. SCHIST AFTER WELDED TUFF.
380S	618769	50	-	30	15	5	B	50	GREY				10	2	<2	<1	5		HOLE FAILED @ SCREE: QTZ-SER SCHIST AFTER RHYL TUFF.
400S	618770	60	5	20	15	-	C	40	"	✓			10	5	<2	1	10		OK: QTZ-SER SCHIST & EVIDENCE OF SILICIFIED (BITS + WH.)
420S	618772	60	5	20	15	-	C	40	"	✓			10	2	<2	<1	10		OK: " " " " " " " " " "
440S	618773	40	5	25	25	5	B	40	"				5	2	<2	<1	10		HOLE FAILED @ SCREE: AS ABOVE.
460S	618774	70	5	15	10	-	B	40	"				10	10	<2	1	10		HOLE FAILED @ SCREE: QTZ-SER SCHIST AFTER RHYL TUFF.
480S	618775	60	5	20	15	-	B	60	"				10	<2	<2	<1	<5		HOLE FAILED @ SCREE: SILICIFIED QTZ-SER SCHIST AFTER RHYL TUFF.
500S	NO SAMPLE																		
520S	618777	60	-	15	20	5	B	60	YELLOW				10	2	<2	1	5		HOLE FAILED @ SCREE: QTZ-SER SCHIST AFTER WELDED TUFF.

* Check assay value.

271021





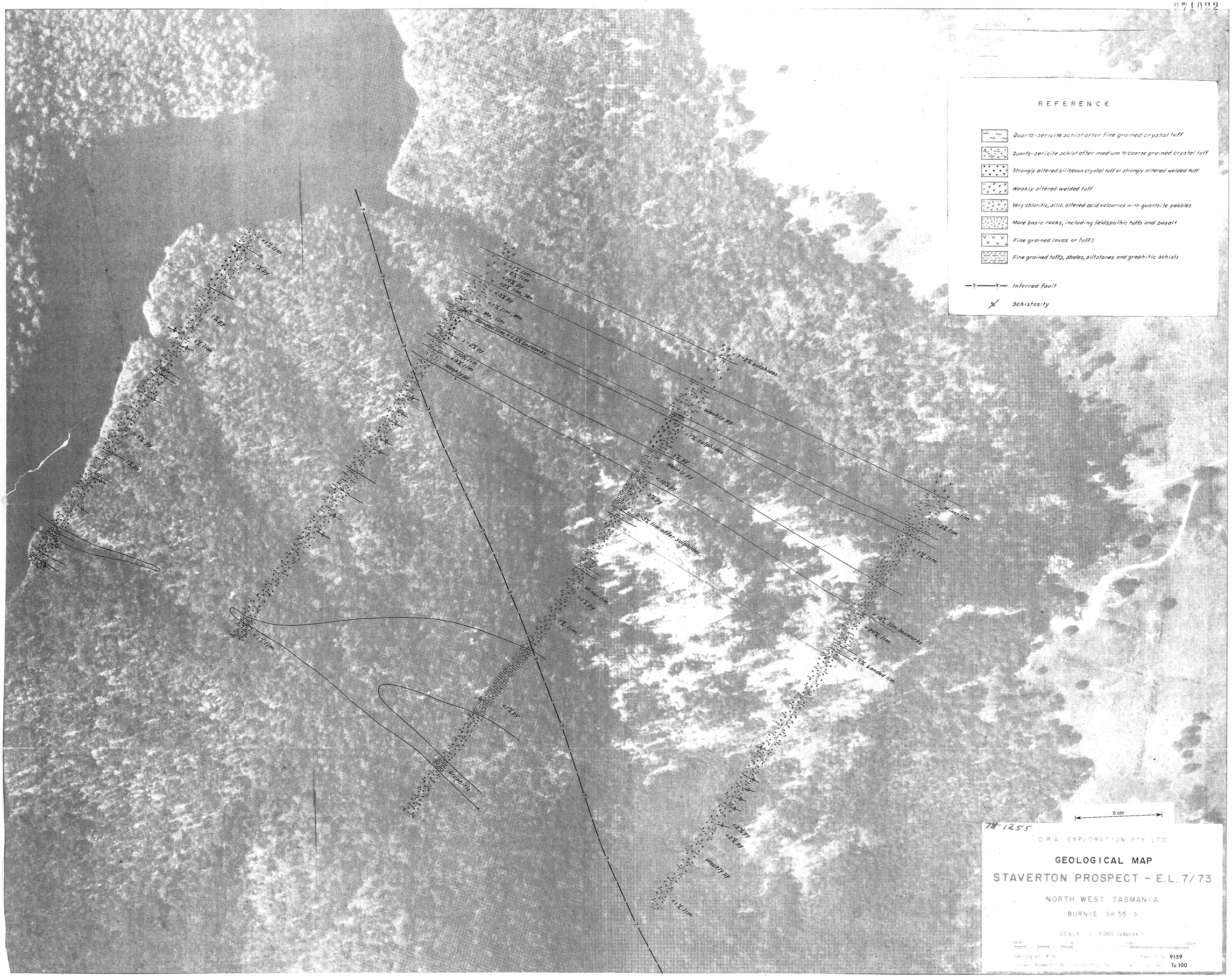
INDEX TO 1:250 000 SHEETS

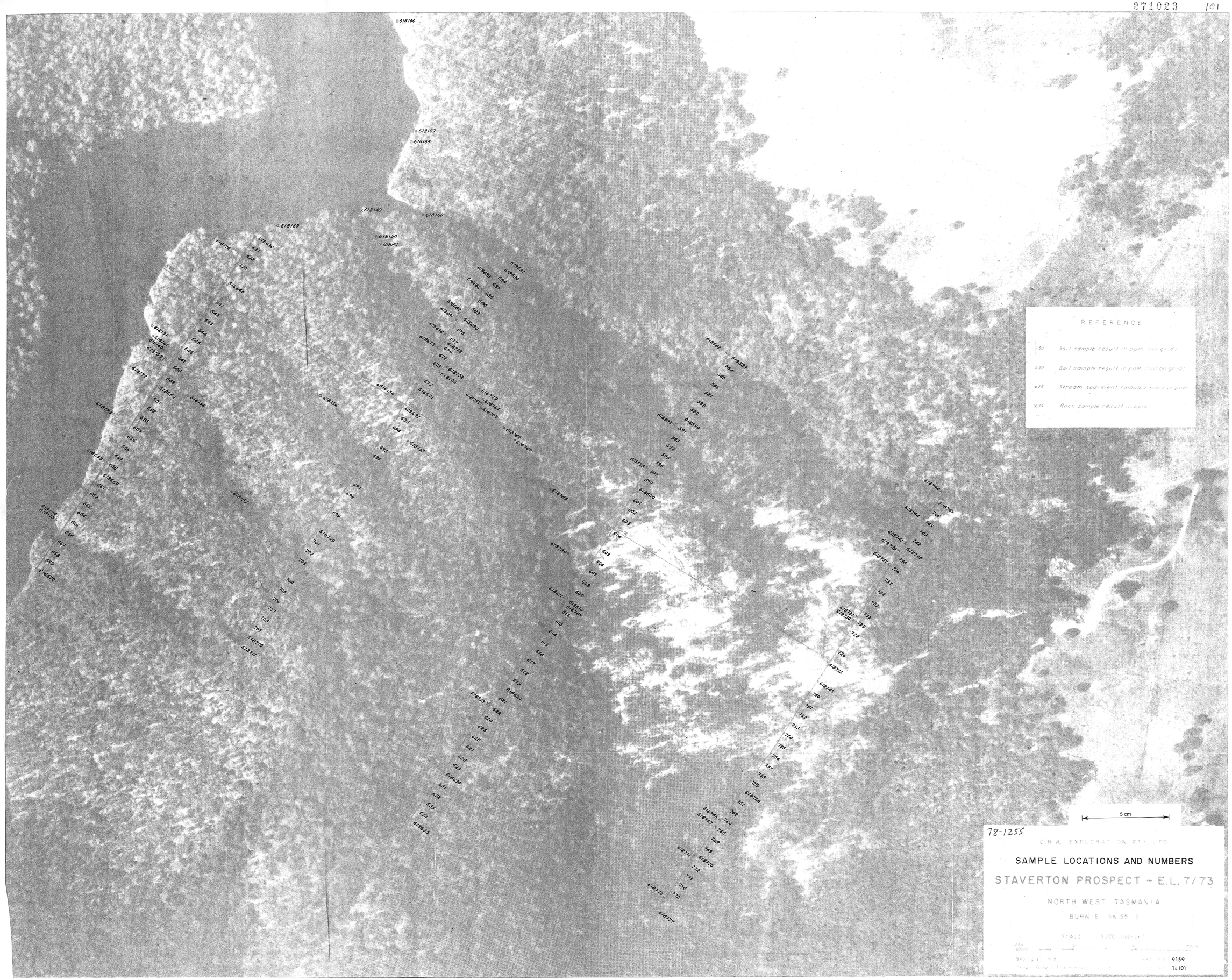
C.R.A. EXPLORATION PTY. LIMITED

LOCATION MAP

BURNIE SK 55-3

geologist: J.G.P.	scale: 1:250 000	report no: 9041, 44 9159, 60
drawn: N.A.P.	date: Nov. '77	plan no: Tc 89


REFERENCE
Quartz-sericite schist after fine grained crystal tuff
Quartz-sericite schist after medium to coarse grained crystal tuff
Strongly altered siliceous crystal tuff or strongly altered welded tuff
Weakly altered welded tuff
Very chloritic, silic. altered acid volcanics with quartzite pebbles
More basic rocks, including feldspathic tuffs and basalt
Fine grained lavas or tuff?
Fine grained tuffs, shales, siltstones and graphitic schists
Inferred Fault
Schistosity
<1% lim.
<1% py
1% py
1% lim
0.5% py
<1% lim.
<10% py
<2% lim. Mn.
<3% py
<1% lim, Mn.
Mn. lim.
Banded lim + 5% boxworks
1-2% py
<10% lim
<3% lim
Weakly py
1-2% sulphides
Weakly py
<1% sulphides
1% py
Weakly py
<10% py
2% py
2-3% lim after sulphides
Minor lim
<5% py
1% lim
<1% lim
<1% py
graphite
<1% lim
Weakly py
<2% py
<2% py
<1% lim
Minor lim
<2% lim
<1% lim
<10% lim boxworks
<20% lim
<1% banded lim
5 cm
78-1255
C.R.A. EXPLORATION PTY. LTD.
GEOLOGICAL MAP
STAVERTON PROSPECT - E.L. 7/73
NORTH WEST TASMANIA
BURNIE SK 55-3
SCALE 1:3000 (approx.)
GEOLOGIST P.B.
Report No. 9159
Plan No. Tc 100


REFERENCE
Soil sample result in ppm (on grid)
Soil sample result in ppm (not on grid)
Stream sediment sample result in ppm
Rock sample result in ppm
5 cm
78-1255
C.R.A. EXPLORATION PTY. LTD.
SAMPLE LOCATIONS AND NUMBERS
STAVERTON PROSPECT - E.L. 7/73
NORTH WEST TASMANIA
9159
Tc101

78-1255

REFERENCE

- 50 Soil sample result in ppm (on grid)
- ○50 Soil sample result in ppm (not on grid)
- ●25 Stream sediment sample result in ppm
- ×35 Rock sample result in ppm

5 cm

78-1255

C.R.A. EXPLORATION PTY. LTD.

GEOCHEMICAL MAP - LEAD

STAVERTON PROSPECT - E.L. 7/73

NORTH WEST TASMANIA

BURNIE SK 55-3

SCALE 1:3000 (approx)

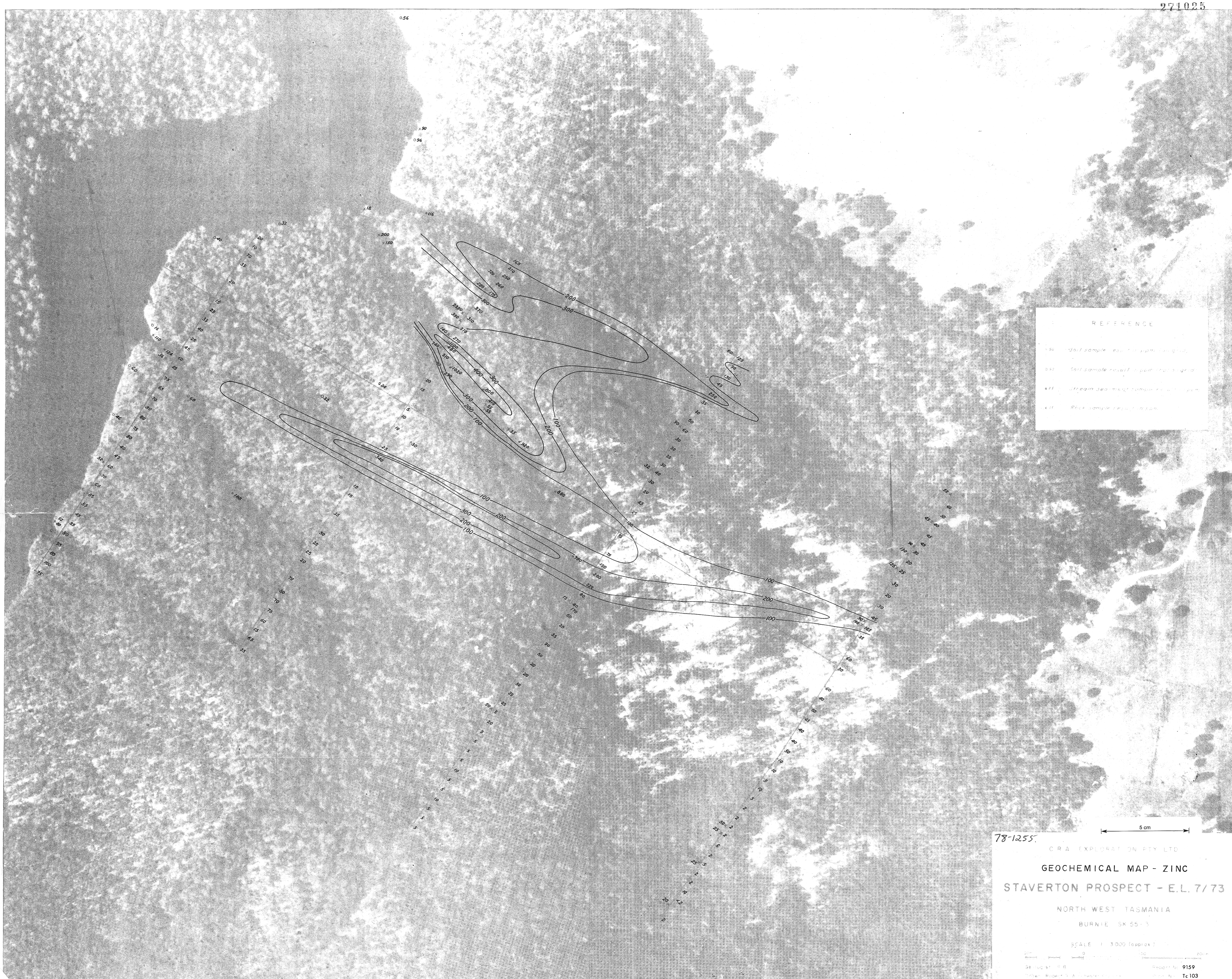
100m 0 100 200m

Geologist P.B. Report No. 9159

Drawn: Robert G. Winchester Pty. Ltd. Plan No. Tc102

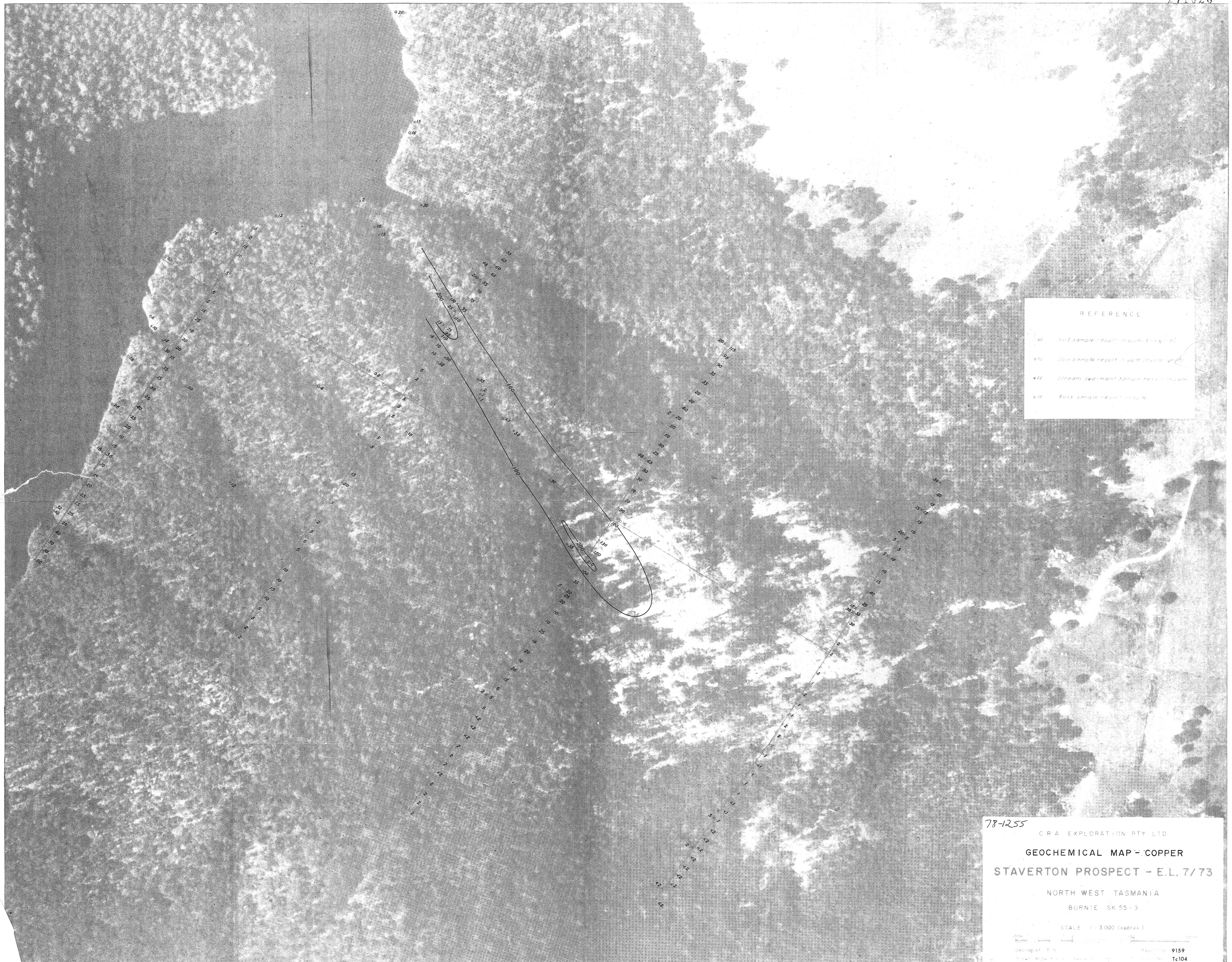
053

Tc 2


REFERENCE
5 cm
78-1255.
C.R.A. EXPLORATION PTY LTD
GEOCHEMICAL MAP - ZINC
STAVERTON PROSPECT - E.L. 7/73
NORTH WEST TASMANIA
BURNIE SK 55-3
SCALE 1:3000 (approx.)
Report No. 9159
Tc 103

104

271926



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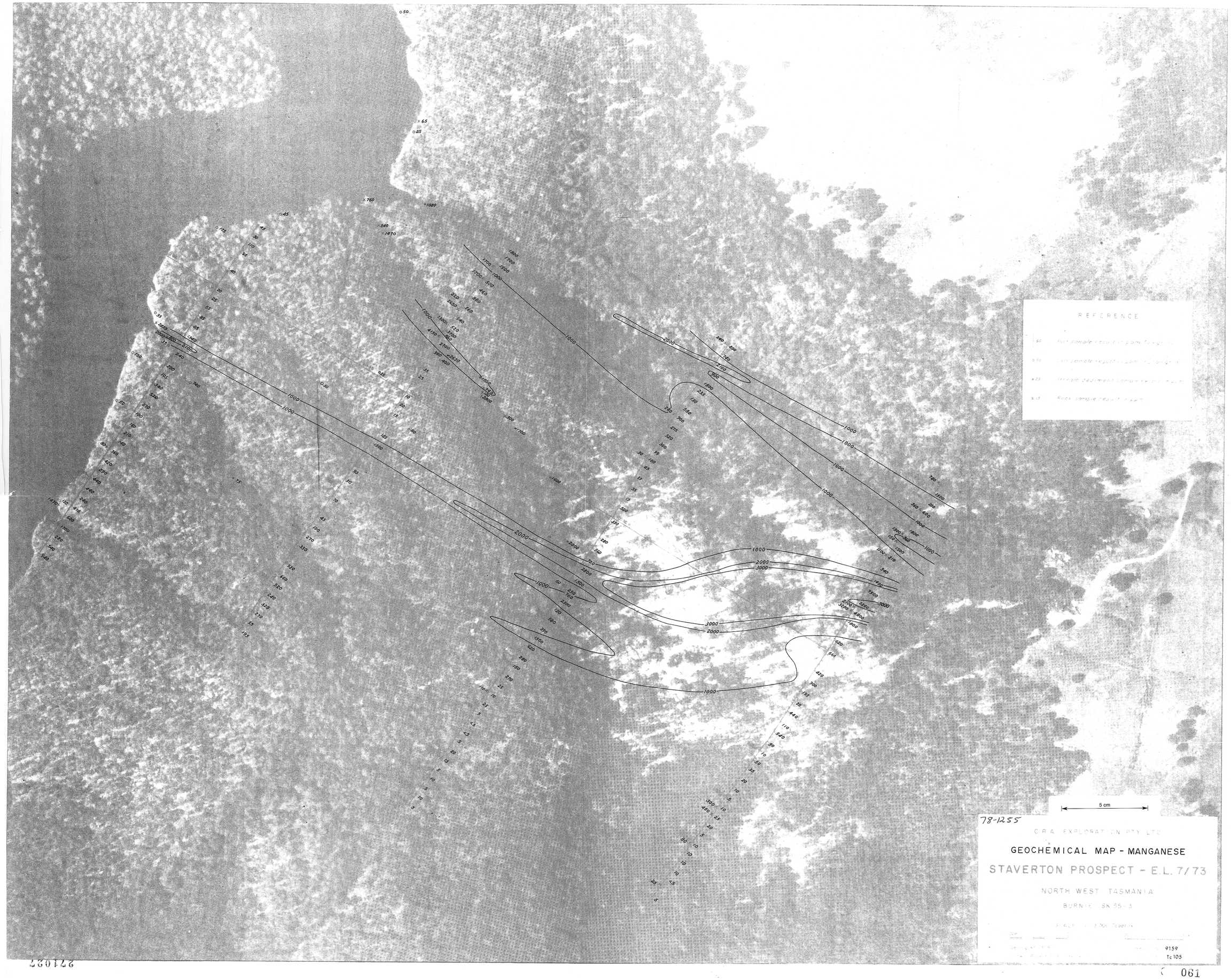
REFERENCE
5 cm
78-1255
C R A EXPLORATION PTY LTD
GEOCHEMICAL MAP - MANGANESE
STAVERTON PROSPECT - E.L. 7/73
NORTH WEST TASMANIA
BURNIE SK 55-3
9159
Tc 105