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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

Mineral Resources Division

**MICROFILMED**

EXPLORATION LICENCE NO. 1/62 - MT. BLACK

Relinquishment Report on Part of E.L. 1/62 -

The Mt. Murchison Area

Report No. T193

I.R. McDonald,

October, 1984.

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80/2/22
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LIST OF PLANS

Transparencies held

<u>Plan No.</u>	<u>Scale</u>	<u>Title</u>
Plate 1		Geological Legend - Exploration - No transparency.
A2-504-0345	1:50,000	Work Completed in Area of Relinquishment - Mt. Murchison.
A1-525-0328	1:10,000	Geology - Mt. Murchison Area.
-0329	"	Sample Locations - Mt. Murchison Area.
-0330	"	Stream Sediment Geochemistry - Mt. Murchison Area.

## 1. INTRODUCTION

Exploration Licence 1/62 is required to reduce its area to a maximum of 125km<sup>2</sup> by 22nd January, 1985. This necessitates a relinquishment of 13km<sup>2</sup> (refer Appendix 1). The area proposed for relinquishment lies on the eastern side of E.L. 1/62 near Mt. Murchison (Plan No. A2-504-0345).

The area totals 13.65km<sup>2</sup> and is described as follows:-

Starting from the north-eastern corner at 388,080mE, 5,370,450mN, on the southern boundary of E.L. 4/73, then westerly along that boundary to a point at 384,000mE, 5,370,950mN, then grid south to 5,369,000mN, then grid west to 383,000mE then grid south to the present boundary of E.L. 1/62 at 5,367,850mN, then easterly along that boundary to a point at 387,660mE, 5,367,270mN, then northerly back to the start point.

This report covers exploration activities within the above area. This work was undertaken during 1980.

Symbols and terminology used on geological plans are shown on Plate 1 - Geological Legend - Exploration.

## 2. WORK COMPLETED

### 2.1. Line Cutting

An access walking track to the Mt. Murchison area, totalling 4km in length, was cut via creeks and compass bearings from the Murchison Gorge Damsite to a point at 5,369,650mN; 387,350mE, where a helicopter landing site and a campsite were cut. From the campsite a further 6.4km of line and 5.9km of creek were cut to provide access across the area.

### 2.2. Geological Mapping

7.2km of line and 15.7km of creeks were mapped. 31 rock samples were collected and 5 of these were sent to C.M.S. for thin sectioning and petrographic description. The results are contained in C.M.S. Report's 80/3/21 and 80/2/22 in Appendix 2. 25 of the samples were analysed for Pb, Zn, Cu, Fe, Mn by A.A.S. after nitric/perchloric acid leach.

### 2.3. Geochemical Sampling

The creek and line mapping generated 163 bulk stream sediments, and 42 manganese oxide coated pebble samples. The stream sediments were sieved to -80 mesh and analysed for Pb, Zn, Cu, Fe, Mn, Co by A.A.S. after nitric/perchloric acid leach, and for Sn by A.A.S. after volatilisation with ammonium iodide. Manganese oxide coated pebbles were analysed for Pb, Zn, Cu, Fe, Mn, Co by A.A.S. following a cold hydroxylamine leach. Data sheets for all samples are contained in Appendix 3.

## 3. RESULTS RECEIVED

### 3.1. Geology (Refer to Plan No. A1-525-0328)

The outcrop of Murchison Granite was shown to be much more extensive than previously thought. The granite is typically a hornblende-biotite-adamellite as per sample 29654 described in C.M.S. Report 80/2/22 in Appendix 2. The granites are associated with porphyritic intrusive rhyolites which are most abundant around the contact of the granite south of 5,368,000mN. Petrographic description of a very similar rock from outside the area under discussion showed it to be an altered and stressed granite of medium to deep seated intrusion. The porphyritic appearance and finer grained groundmass were the result of irregular zones of granulation followed by recrystallisation of a fine grained albite cement and a strong sericite and chlorite alteration. It is very possible then that the intrusive rhyolites of the Mt. Murchison area merely represent tectonised zones within the granite. As most of these rocks occur on the margins of the granite they may reflect a forceful mode of emplacement of the granite.

The country rocks intruded by the granite are restricted to a fringe around its eastern and southern contacts. The western contact, north of 5,369,000mN is formed by the unconformable overlap of the Owen Conglomerate. The country rocks comprise a sequence of steep to west dipping sediments and acid volcanics. They are generally cleaved which may reflect shearing movements along the Tyennan Fault which bounds the Pre-Cambrian massif to the east. Although not mapped in this programme, the fault contact trends parallel to the E.L. boundary some 600m to the east. The most easterly unit mapped comprises siltstones and shales which outcrop at 387,900mE between 5,368,400mN and 5,368,800mN. These strike slightly east of north and dip west at 60-70°. A petrographic description of a typical example is given by sample 29652 in C.M.S. Report 80/2/22 in Appendix 2. These sediments are overlain by predominantly acid

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pyroclastics. A small zone of intermediate tuff was mapped at 5,368,400mN 387,700mE. In the north of the area around 5,369,500mN; 387,400mE, the rocks have a strong tectonic fabric and outcrop as quartz-feldspar-sericite-phyllites. These have been developed from either acid tuffs or lavas. In the south around 5,367,500mN the rocks have been identified in thin section as rhyolitic welded ignimbrites. The relevant petrographic descriptions for samples 35210 and 35219 are contained in C.M.S. Report 80/3/21 in Appendix 2.

At 5,367,800mN; 387,200mE, a thoroughly deformed and altered sediment was mapped. A petrographic description is given for sample 35216 in C.M.S. Report 80/3/21 in Appendix 2. The sediment lies apparently within the outcrop of the intrusive rhyolites. It may represent a xenolith or a roof pendant, but probably indicates that the contact relationships of the granite are much more complex than the limited outcrop suggests.

**3.2. Geochemistry** (Refer to Plans No's A1-525-0329, -0330 and to Data Sheets in Appendix 3)

Analysis of the results gave averages of 100 ppm Pb and 80 ppm Zn, and standard deviations of 94 ppm for Pb and 104 ppm Zn. Accordingly, values in excess of 200 ppm for Pb and Zn were regarded as weakly anomalous, and values in excess of 300 ppm as significantly anomalous. Values for Cu and Sn were very low throughout, being mainly below detection limits. Only 8 of the 163 samples gave a Cu response with a highest value of 35 ppm, and only 15 samples gave a Sn response with a highest value of 7 ppm. The very low Cu response is most probably a reflection of the bedrock geochemistry. Rock samples analysed from the area contained generally less than 30 ppm Cu with a highest value of 60 ppm Cu. The very low levels may be enhanced by acid ground-waters leaching Cu and rapidly transporting it out of the system.

The programme turned up several anomalous samples in Pb and Zn. Most of these are single sample anomalies and many are single element anomalies. Three catchment areas appear to be more consistently anomalous.

1. Two small southerly draining streams centred at 5,370,000mN 386,800mE are anomalous in both Pb and Zn.

2. Two north-easterly draining streams centred at 5,369,300mN 386,500mE of which one is anomalous in Pb and Zn with a distinct Pb trail and the other is weakly anomalous in Zn.
3. One stream is weakly anomalous in Pb for its entire length from 5,368,600mN 387,000mE to 5,369,650mN 387,250mE.

Almost all anomalous samples are also high in Mn and Co so some degree of scavenging would be suspected. This is particularly true of the most anomalous catchment No. 1 above.

Only 42 manganese oxide coated pebbles were collected compared with the 163 stream sediments so direct comparison of the results is difficult. However, there appears to be little correlation between coincident manganese pebbles and -80 mesh stream sediments. The pebbles show greater variability in Zn than in Pb as might be expected from the greater mobility of Zn. The best correlation seems to be between anomalous Zn in pebbles and weakly anomalous Pb in sediments. The anomalous catchment No. 1 above is in no way anomalous in manganese oxide pebble results. The other catchments, No's 2 and 3 have insufficient pebble samples to draw any comparisons.

The geology mapped in each of the above mentioned catchments is entirely Murchison Granite.

#### 4. CONCLUSIONS

The geology of the Mt. Murchison area, being composed largely of granite and sub-aerial ignimbrites, does not present an encouraging environment for mineralisation of the Rosebery type. The eastern-most sediment units, largely because of their position adjacent to the Pre-Cambrian block, may be the stratigraphic equivalents of the lowermost Cambrian, Success Creek Formation. However, sampling in this area failed to find any anomalies.

The anomalous samples recorded in the survey are difficult to explain in view of the underlying geology. Manganese oxide scavenging may have enhanced some samples but it is unlikely to explain them all. The most likely source of base metal anomalies in a predominantly granitic terrain would be small mineralised shears and small late stage vein concentrations.

APPENDIX 1.

Mines Department Advice on Required Relinquishment for  
E.L. 1/62.

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DEPARTMENT OF MINES

TELEPHONE: 30 8033  
WHEN TELEPHONING OR  
CALLING ASK FOR

GORDON'S HILL RD  
P.O. BOX 56  
ROSNY PARK  
TASMANIA 7018

A.J. Reeves EXT. No. 6614

21 FEB 1984

Supervising Geologist,  
Mineral Resources Division,  
E.Z. Co. of Australia Ltd.,  
P.O. Box 21,  
ROSEBERY,  
Tasmania. 7470

MGR		MGR	MINE	CH
			DEPT.	MINE
ACCTS	23 FEB 1984			

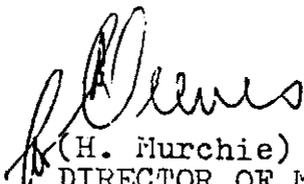
Dear Sir,

EXPLORATION LICENCES 1/62 AND 12/72  
REDUCTION IN AREA

All licence holders have two clear years from the first renewal after 30 June 1982 before reduction of area is required. Hence Exploration Licence 1/62 is to be reduced by 22 January 1985. The area of this licence is to be reduced to 125 square kilometres. This does not include the mine leases which account for 32 square kilometres, hence it will be necessary for E.Z. to relinquish 13 square kilometres.

Since the present area of Exploration Licence 12/72 is below 125 square kilometres, no reduction in area is required. The complete area however will be required to be relinquished by 25 December 1987.

Yours faithfully,

  
(H. Murchie)  
DIRECTOR OF MINES

APPENDIX 2.

Petrology Reports - C.M.S. Report No's 80/3/21  
80/2/22

APPENDIX 2.REPORT C.M.S. 80/3/21 (Extract)PETROLOGICAL DESCRIPTIONS

35210 5,367,815mN 386,680mE

(T.S. 31169) K-stain positive.

This is a pervasively sericitised **porphyritic** and **weakly clastic rhyolite**. Finer details have been obliterated by alteration and relatively marked shearing, and there is little to choose between a lava and a thoroughly welded (and thus lava-like) ignimbritic mode of origin. The distinction is academic in that an extrusive origin is considered likely.

Frequent stressed and partly fragmental quartz 'phenocrysts' ( $100\mu$  - 2mm) are accompanied by lenses of sericite, representing completely altered and sheared feldspar grains. These are embedded in a more or less massive, sericitic matrix with sporadic poorly defined (sericitised/flattened) lithic clasts (to 1.5mm) and a weak relict flow banding.

Quartz is of phenocrystal habit (embayed margins, partly bipyramidal) and the fragmentation is an in-situ phenomenon. Phenocrysts, overall are rather evenly disseminated and this gives the rock a distinct lava-like character. However, very vague, shard-like features persist in pressure shadow zones, marginal to quartz grains and rock clasts, and in some of the poorly defined lithic clasts. These features tend to confirm a thoroughly welded ignimbrite interpretation.

Adularia, albite, chlorite and carbonate are accessory alteration phases. These were introduced partly in pre-tectonic, discontinuous veins and microfracture healings.

35216 5,367,825mN 387,205mE

(T.S. 31170) K-stain negative.

This is a **greenschist metapsammite**, clearly an **argillaceous orthoquartzite**. The rock is of distinctly detrital character and devoid of pyroclastic or volcanomict features.

The relict framework is poorly to moderately sorted in the silt to fine sand range, with sporadic medium-sand-sized grains. Detritus is almost entirely quartz with (somewhat

flattened) angular to well rounded shapes. Bedding is variably relict on a sub- to millimetric scale, defined in part by the distribution of detrital heavy mineral particles (zircon, opaques, leucoxenitic semi-opaques, rare tourmaline) and by sporadic crude argillaceous partings, and is intersected by the tectonic cleavage at low to intermediate angles. The stressed/partly recrystallised cement consists of quartz with accessory sericite.

Patchy haematite-staining is evident in argillaceous zones. The haematite is largely degraded to limonite, but appears to be late-or post-tectonic.

35219 5,367,475mN 387,045mE

(T.S. 31171) K-stain positive.

This is a thoroughly altered and sheared **rhyolite**, texturally similar to 35216 and evidently closely related. The main contrast lies in the alteration pattern.

Relict features comprise disseminated, heavily stressed quartz and heavily altered feldspars of phenocrystal habit in a flow- and compositionally banded microcrystalline, quartzofeldspathic matrix. Vague streaky, eutaxitic-like microtextures persist in places and tend to confirm an ignimbrite mode of origin, although, enhanced in part by the tectonic cleavage. Sheared lithic clasts are present, but are no more than a minor accessory component, and the rock is reasonably classified as a **vitric-crystal tuff**.

Alteration is characterised by marked epidotisation. The epidote is cloudy, generally microgranular and of semi-banded distribution, parallelling (and thus controlled by) the primary compositional banding. This phase is postdated by a crosscutting, discontinuous set of sheared veins (to 2mm) of quartz with patchy adularia and accessory chlorite.

C.M.S. REPORT 80/2/22 (Extract)PETROLOGICAL DESCRIPTIONS

<u>Sample No.</u>	29652 5,368,740N 387,855E	29654 5,368,940N 387,625E
<u>K-stain</u>	K-negative	K-positive
<u>Classification - Composition</u>	<b>Tuffaceous Pelite</b> Sericitic quartzose silty shale with silty interbeds of angular to sub-round quartz, minor sericitised ?abraded shards, sparse muscovite in sericite matrix.	<b>Hornblende-Biotite-Ademellite.</b> Orthoclase-microperthite and heavily sericitised ?oligoclase in near-equant proportions. Subordinate dark green hornblende, extensively chloritised dark brown biotite, quartz.
<u>Fabric</u>	Slumped, incipiently sheared Scattered quartz with relict embayed margins.	Prismatic plagioclase, amphibole, biotite in granitic quartz, orthoclase. Mean grain size 1.5mm.
<u>Accessories</u>	Minor clastic biotite (sericitised), leucogenic semi-opaques. Traces carbonaceous matter.	Primary magnetite and traces apatite, sphene. Minor secondary epidote and traces oxidised pyrite.
<u>Comments</u>	Essentially a weakly carbonaceous, quartzose silty shale with a minor reworked acid tuffaceous component. Weakly Fe-stained, but devoid of sulphides.	Abundant ferromags, suggest differentiation from diorite-monzonite facies. Sericite is pale green hydromuscovite and orthoclase pink. Incipiently stressed.

APPENDIX 3.

Geochemical Sample Data Sheets.

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Electrolytic Zinc Co. of A'asia Ltd. Rosebery, Tas.			ROCK SAMPLE LEDGER				PROJECT: <i>MT. BLACK</i>		LOCALITY: <i>EAST MURCHISON</i>								
							COLLECTED BY: <i>I. McDONALD.</i>		DATE: <i>FEB. 1960</i>								
Sample Number	A.M.G. Co-ordinates		Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section			Metal Content (p.p.m. unless specified)								
	N	E				By	Reference	Rock-type (Microscopic)	Mn	Fe	Cu	Zn	Pb				
35207	5,367,985	386,375	GAAS	Yell. weath. sly. clud. Sst. g. red + some ferrug. s.													
35208	5,367,940	386,355	"	fmg fg massive S quartzite													
35209	5,367,880	386,275	"	S congl. (Oxens) Quartzite fraga rubble etc													
35210	5,367,815	386,680	"	Dk grey s. ch. g. parph. Arg. f. fine? + intense?	T	cms.	report 20/3/61	strongly oriented rhombic por. base with some well developed lull.									
35211	5,367,750	386,800	"	f. dk grey Ar with fmg + mg pk fg phenocrysts. too shaly GR. mag. or pure quartzite Ar in GR					2000	3.35%	5	115	5				
35212	5,367,735	386,820	"	Pl/ps mag. GD to GR f. g. ch. hb					530	1.45%	10	45	5				
35213	5,367,720	386,835	"	fmg p. pl/ps/mg GR to GD f. g. ch. hb					1400	3.10%	10	125	15				
35214	5,367,760	387,305	"	well weathering grey fg ad. mod. shaly? Arg. f.					2000	3.60%	30	310	320				
35215	5,368,015	387,125	"	grey/blk. fg. shaly p. shaly? Arg. f. (s) fine? + intense?					660	9000	30	25	120				
35216	5,367,825	387,205	"	well weathered fg shaly. mod. Arg. f. g. thin equilibrium and shaly band. no result of shaly?	T	cms.	report 20/3/61	argillaceous orthoquartzite									
35217	5,367,445	387,370	"	Dk phyllite. prob. developed from Arg. f. g.					170	1.75%	35	75	20				
35218	5,367,375	387,150	"	Dk grey fg shaly t? Arg. f. ch.					2100	2.5%	15	205	15				
35219	5,367,475	387,045	"	grey/blk. fg shaly Adol. f. (g) fine? + intense?	T	cms.	report 20/3/61	shaly shales with small phyl. f.									
35220	5,369,340	388,015	"	Dk grey fg calcareous Adol. f. g. s. ch. with micaceous shaly - approaching phyllite shaly					720	2.15%	15	80	40				
35221	5,369,575	387,905	"	Pl. fmg + mg GR to GD f. g. ch. (ch. hb) with sh. veins.					700	1.85%	10	55	15				
35222	5,369,550	387,905	"	Pl. f. mg microgranite f. g. dark + shaly of ch. hb up to 1/2 in size					240	1.30%	10	25	5				

282016

Electrolytic Zinc Co. of Asia Ltd. Rosebery, Tas.			ROCK SAMPLE LEDGER				PROJECT: MT. BLACK		LOCALITY: EAST MURCHISON.					
							COLLECTED BY: J. MILLER & ROSSIGNOL		DATE: FEB 1960					
Sample Number	A.M.G. Co-ordinates		Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section				Metal Content (p.p.m. unless specified)				
	N	E				T	By	Reference	Rock-type (Microscopic)	Mn	Fe	Cu	Zn	Pb
29649	5,369,300	387,880	Grab	Grn/Rd lux of t A fq						230	1.1%	20	60	5
29650	5,369,230	387,990	Grab	Ple pk-gry Ar. q. sum. f. mag.						220	1.2%	20	50	15
29651	5,369,190	387,970	Grab	Rd/Grn bre Ar fq						1950	3.6%	30	170	400
29652	5,368,740	387,855	Grab	Gry clud (vt I or Sch?)		T	C.N.S.	report 80/2122	Tuffaceous pelite of sch. - shade of mag.	170	5600	10	20	40
29653	5,368,675	387,860	Grab	Ple gry/gry well bd (Ssh or vt A?)						60	4300	15	5	5
29654	5,368,940	387,625	Grab	Ple gm gry/rd mg Gnd fq. mag.		T	C.N.S.	report 80/2122	Hornblende-Biotite-Adamsite	1400	3.2%	45	165	65
29655	5,368,550	387,595	Grab	Rd/Whit/Grn Blk Syenite-Gnd fq. mag.						3100	4.8%	20	250	120
29656	5,369,900	386,880	Grab	Rd Quartzite.						210	1.2%	15	15	25
29657	5,369,900	386,665	Grab	Gry Grn/rd xlv t I f chl. q?						2400	3.95%	20	210	325
35111	5,370,420	387,815	.	Blk. syenite cut by epidote/qz/chl veins.						2300	3.65%	20	325	80
35114	5,370,020	387,850	.	DK gneiss mag. with schistose with p. & Arg. with biotite.						3300	3.85%	10	900	45
35130	5,368,665	387,050	.	Gg. GR and DK gne. old dyke						3650	8.0%	60	360	630
35137	5,369,210	386,105	.	DK blue fq. Ar?						1550	4.3%	30	135	60
35138	5,369,255	386,350	.	Wh. Qz vein in Granit. gne.						340	7300	50	10	60
35223	5,369,835	387,705	.	DK gne. mag. fq. schistose? Adol. f. (g) s. chl. with schistose. with some mag. fr. phenocrysts.						3300	3.3%	10	950	10

Electrolytic Zinc Co. of Asia Ltd.  
Frodober, Tas.  
PROJECT: MC. BRICK  
LOCALITY: EAST MURCHISON

GEOCHEMICAL DATA SHEET

MATERIAL: STRAUM SEDIMENTS -80FF  
SAMPLED BY: I. McDONALD P. HOWARD

Line FROM: TO: DATE 10-4-80

SAMPLE NUMBER	CO-ORDINATES		Metal Content (p.p.m. unless specified)										Sample Type	Soil Parameters		Sample Composition		Local Geology		Stream Parameters		
	N	E	Pb	Zn	Cu	Fe%	Mn	Sn	Depth	Colour	Rock Frag	Sand		Clay	Organic Matter	Carbon	Other	Stream Order	Width	Direction		
35153	369800	387240	<10	30	<10	0.30	140		3D		64	0	GR				4	20	E			
54	369940	387145	30	25	<10	0.10	190		4D		62	2					4	10	S			
55	370090	387035	40	100	10	1.90	1900		2D		26	11					4	15	SW			
56	370220	386920	25	110	15	2.00	470		6D		17	2	FGD				4	20	S			
57	370280	386890	250	130	<10	2.50	5700		6D		73		FGD				4	15	SSW			
59	370365	386820	240	250	20	3.20	1200		7D		54	1					4	10	S			
60	370480	386730	10	45	<10	0.70	220		4D		63	1					4	30	E NE			
61	370620	386630	20	45	<10	1.50	810		3D		72	1					4	20	NE			
35163	370790	386410	20	66	15	0.50	330		3D		35	2					4	15	NNW			
35158	370280	386890	1200	400	<10	5.60	710000		6M									4	15	SSW		
THIS IS A Mn pebble sample ANALYSED BY NITRIC-PERCHLORIC IN ERROR										RESULTS MEANINGLESS												
										DON'T PUT 35158												

MT. BLACK. EAST MURCHISON			CO-ORDINATES LINE: FROM: TO:	SAMPLED BY J. MILL. A. HOLLISON Z. McDONALD.	MATERIAL STREAM SEDIMENTS	ENCLOSURE SHEET NO. DSS NO.
				DATE FEB. 1980	DEPTH	

SAMPLE NUMBER	CO-ORDINATES		Interval +/-	CO-ORDINATES				ANALYSIS			DIRECTION	DESCRIPTION
	N/S	E/W		Cu	Pb	Zn	Mn	Fe %	Ca	Sn		
35001	369300	387730		<10	65	50	1500	0.84	<5		345°	
35003	369300	387915		<10	25	15	90	0.09%	<5		330°	
35004	369300	388010		<10	25	15	60	0.23%	<5		340°	
35005	369210	387990		<10	30	15	30	0.13%	<5		300°	
35006	369210	387980		<10	25	<10	70	0.17%	<5		50°	
35007	369000	387880		<10	<20	<10	45	0.06%	<5		25°	
35008	368950	387875		<10	<20	10	55	0.08%	<5		345°	
35009	368950	387860		<10	<20	15	75	0.19%	<5		10°	
35010	368810	387865		<10	<20	<10	<10	0.03%	<5		2145°	
35011	368810	387850		<10	<20	<10	<20	0.05%	<5		340°	
35012	368635	387875		<10	<20	<10	10	0.05%	<5		340°	
35013	368625	387865		<10	<20	10	60	0.16%	<5		40°	
35014	368460	387860		<10	100	230	>10000	>10%	45		45°	
35016	368460	387875		<10	20	15	1100	0.26%	<5		340°	
35018	368340	387860		<10	25	10	45	0.09%	<5		340°	
35019	368340	387640		<10	25	15	70	0.11%	<5		300°	
35020	368340	387585		<10	50	20	120	0.23%	<5		3135°	
35021	368340	387530		<10	60	30	220	0.48%	<5		00°	
35022	368345	387370		<10	45	15	200	0.16%	<5		3100°	
35023	368680	387385		<10	45	20	210	0.16%	<5		275°	
35024	369040	387400		<10	45	20	90	0.18%	<5		320°	
35025	369140	387400		<10	90	30	170	0.13%	<5		265°	
35026	369430	387375		<10	25	<10	140	0.14%	<5		235°	
35027	369155	387650		<10	180	130	2200	2.20%	25		50°	
35028	369150	387660		<10	200	130	4300	3.10%	40		325°	

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

282019

PROJECT				CO-ORDINATES				SAMPLED BY				MATERIAL				BOOK NO			
MT. BLACK				LINE:				H. HOLLISON				STREAM SEDIMENTS.				500140			
EAST MURCHISON				FROM:				I. McDONALD				DEPTH:				500140			
SAMPLE NUMBER	CO-ORDINATES				Interval	TO:				DATE				DIRECTION	DESCRIPTION				
	N/S					E/W				FEB 1980									
35030	368900	387630				<10	120	60	2200	1.3%	15			320					
32	368870	387645				<10	30	15	370	0.25%	<5			300					
33	368675	387500				<10	100	60	1300	1.6%	<5			000					
35	368530	387580				<10	190	75	3800	1.7%	30			800					
36	368525	387595				<10	65	40	580	1.2%	5			100					
38	368480	387230				25	300	200	900	0.75%	<5			500					
39	368665	387050				<10	180	110	3500	1.1%	15			350					
41	368900	387095				10	240	120	3700	1.5%	20			340					
43	369095	387175				35	260	400	7500	5.5%	50			300					
45	369100	387160				10	190	90	2800	1.7%	10			700					
46	369340	387185				<10	240	85	5400	2.1%	65			345					
48	369340	387170				<10	95	55	860	0.85%	5			400					
49	369635	387240				<10	230	150	7000	2.6%	55			200					
51	369640	387225				<10	170	120	2900	1.8%	20			500					
53	369565	387140				<10	180	170	5200	2.2%	25			200					
55	369590	387135				<10	55	25	380	0.33%	<5			600					
57	369600	387145				<10	30	15	240	0.22%	<5			150					
58	369535	387120				<10	110	150	1000	1.2%	5			345					
60	369545	387110				<10	180	130	3400	2.4%	20			850					
62	369610	386970				<10	180	90	4000	1.5%	25			650					
64	369630	386975				<10	110	100	2500	1.6%	20			1200					
66	369680	386945				<10	240	130	6000	2.8%	35			900					
68	369700	386945				<10	140	90	3200	1.3%	20			1000					
70	369860	386850				<10	200	140	7000	2.0%	25			1300					
35072	369870	386870				<10	360	370	7000	5.0%	130			1600					

282020

LOCALITY <b>MT. BLACK.</b> <b>EAST MURCHISON.</b>	CO-ORDINATES	SAMPLED BY	MATERIAL	BOOK NO.
	LINE:	J. HILL M. HARRISON I. McDONALD	STREAM SEDIMENTS.	SHEET NO.
	FROM:	DATE	DEPTH	POST NO.

SAMPLE NUMBER	CO-ORDINATES		Elev.	TO:							FEB 1980			DEPTH	DIRECTION	DESCRIPTION
	N/S	E/W		+/-	Ca	Ph	Zn	Mn	Fe	Co	Sn					
35074	370035	386915		<10	120	180	900	1.85%	1.0					135m		
75	370030	386930		<10	85	90	380	1.0%	5					175m		
76	369525	386765		<10	240	85	3900	1.4%	25					20m		
78	369535	386760		<10	130	100	2400	1.4%	20					95m		
79	369900	386805		<10	340	380	10000	3.8%	45					120m		
81	369890	386790		<10	70	30	650	0.62%	10					86m		
83	369905	386685		<10	180	45	1800	1.4%	25					110m		
85	369890	386690		<10	60	25	350	0.85%	5					50m		
86	369955	386370		<10	85	25	600	0.85%	5					55m		
88	370015	386765		<10	400	420	10000	4.2%	55					150m		
90	370015	386790		<10	90	70	2600	0.80%	5					165m		
35092	370200	386745		<10	420	740	10000	3.10%	75					135m		
35101	369720	387345		<10	45	45	450	0.74%	<5					North		
1102																
1103																
1104																
1107																
1109																
112	370040	387990		<10	40	30	330	0.45%	<5							
113	370055	387985		<10	110	100	1900	1.30%	15					119m		
115	369950	387730		<10	160	100	3200	1.80%	25							
117	369970	387765		<10	190	90	6700	1.90%	40							
119	369935	387740		<10	70	140	1400	0.72%	10							
121	370030	387625		<10	150	110	4000	1.70%	20							
35122	370035	387515		<10	250	75	4400	1.80%	30							

SEE Sterling Valley Sheets

119m  
STERLING VALLEY SHEETS

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

282021

PROJECT <b>MT. BLACK EAST MURCHISON.</b>	CO-ORDINATES LINE #	SAMPLED BY <b>J. BELL A. HOLLISON B. McDONALD</b>	MATERIAL <b>STREAM SEDIMENTS.</b>	SHEET NO <b>306 15</b>
	FROM:	DATE <b>FEB. 1980</b>	DEPTH	

SAMPLE NUMBER	CO-ORDINATES		Elev. +/-	TO:							Fe %	Co	Sn	DIRECTION	DESCRIPTION
	N/S	E/W		Cu	Pb	Zn	Mn								
35123	369995	387460		<10	200	440	1000	3.8	60		A				
124	369940	387420		<10	130	90	3400	1.3	15		A				
125	369855	387365		<10	60	50	350	1.0	25		A				
126	369835	387315		<10	210	180	8500	2.7	40		2				
127	369765	387310		<10	140	80	2000	2.2	25		3				
128	369670	387255		<10	180	110	5100	1.7	25		A				
129	368665	387050		<10	270	160	2700	1.5	40		A				
131	368895	386810		<10	120	70	2000	1.2	25		A				
132	368945	386765		<10	110	90	5600	1.4	25		A				
133	368970	386710		<15	150	70	2100	0.60%	25		A				
134	369135	386505		<10	340	210	5000	1.70%	25		A				
135	369175	386455		<10	160	160	2500	2.50%	20		A				
139	369305	386285		<10	80	20	2000	0.32%	10		A				
141	369480	386030		<10	65	30	220	0.80%	25		A				
142	369390	385810		<10	75	40	360	0.85%	25		A				
143	369530	386150		<10	75	50	1000	6.65%	5		A				
144	369515	386150		<10	140	65	1400	1.3%	5		A				
145	369530	386240		<10	120	70	2000	1.1	5		A				
147	369540	386640		<10	120	75	1100	1.0	5		A				
148	369580	386835		<10	170	80	2500	1.6	10		A				
149	369385	386510		<10	100	25	2300	0.62%	15		A				
150	369400	386625		<10	540	320	9000	2.7	35		A				
151	369420	386665		<10	150	200	900	1.4	10		A				
35152	369455	386705		<10	55	25	500	0.45%	25		A				
34416	368045	386455		<10	30	25	20	6.30%	25		A				

MURCHISON MOUNTAINS



282023

PROJECT: <b>MT. BLACK</b>		CO-ORDINATES	SAMPLED BY: <b>J. MILL</b>	MATERIAL: <b>STREAM SEDIMENTS</b>	BOOK NO.
<b>EAST MURCHISON</b>		LINE #	<b>A HOLLISON</b>		SHEET NO.
		FROM:	<b>± McDONALD</b>	DEPTH:	95 15
		TO:	DATE: <b>FEB. 1980</b>		

SAMPLE NUMBER	CO-ORDINATES		height +/-	CU	Pb	Zn	Mn	Fe %	Co	Sn	DESCR PTG
	N/S	E/W									
3446	367625	386860		<10	<20	<10	15	0.05%	<5		
447	367605	386860		<10	<20	<10	20	<0.05%	<5		
448	367590	386825		<10	<20	<10	15	<0.05%	<5		
449	367575	386825		<10	<20	<10	20	<0.05%	<5		
450	367515	386775		<10	<20	<10	25	0.10%	<5		
451	367730	386860		<10	<20	<10	20	0.05%	<5		
452	367955	386865		<10	45	25	580	0.52%	<5		
453	367950	386880		<10	<20	15	75	0.24%	<5		
454	368090	386815		<10	<20	10	20	0.10%	<5		
455	368095	386830		<10	25	20	65	0.34%	<5		
456	368135	386795		<10	<20	<10	20	0.10%	<5		
457	368300	386800		<10	<20	<10	60	0.12%	<5		
458	368305	386815		<10	20	15	140	0.30%	<5		
459	368550	386845		<10	45	25	150	0.19%	<5		
460	368550	386860		<10	25	15	280	0.26%	<5		
461	368765	386725		<10	110	60	5200	1.5%	35		
462	368770	386840		<10	180	100	9800	2.4%	80		
463	368835	386745		<10	130	55	5300	1.5%	35		
464	368840	386730		<10	90	45	1500	1.8%	25		
465	369210	386895		<10	140	250	3400	2.3%	35		
466	369395	388020		<10	<20	15	75	0.25%	<5		
467	369400	388035		<10	<20	<10	25	0.07%	<5		
468	369450	388005		<10	<20	10	60	0.21%	<5		
469	369445	387985		<10	75	80	1500	1.8%	25		
34470	369475	387975		<10	25	20	90	0.28%	<5		

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

282024

PROJECT MT. BLACK. EAST MORCHISON	CO-ORDINATES	SAMPLED BY	J. MILL. A. HOLLISON I. McDONALD	MATERIAL	STREAM SEDIMENTS.	BODY NO.
	LINE:	DATE	FEB. 1980.	DEPTH		SHEET NO.
	FROM:	TO:				135 15

SAMPLE NUMBER	CO-ORDINATES		Interval +/-	TO:				FEB. 1980.			DEPTH	DESCRIPTION
	N/S	E/W		Cu	Pb	Zn	Mn	Fe%	Co	So		
34471	369740	387905		C10	70	60	2000	1.1%	15			
34472	369890	387930		C10	60	110	850	1.8%	10			
34473	369920	387740		C10	85	110	2200	0.75%	25			
34474	369920	387720		C10	75	170	1600	0.9%	10			
34475	369770	387705		C10	160	470	6200	1.4%	55			
34476	369635	387680		C10	50	30	450	0.70%	25			

282025

SITE: MT. BLACK. EAST MURCHISON.				CO-ORDINATES LINE:				SAMPLED BY: J. MILL A THOMSON I McDONALD.				MATERIAL: Manganese Coated Pebbles from Drainage channels				BOOK NO. SHEET NO. PAGE NO.			
FROM:				TO:				DATE: FEB. 1980				DEPTH:				DESCR. FT.:			
SAMPLE NUMBER	CO-ORDINATES			Interval +/-	Cu		Pb	Zn	Mn%	Fe % Co									
	N/S	E/W																	
35002	369300	387730	30	<10	<20	45	37	7	0.16%	140									
35015	368460	387860	0	<10	<20	45	73	7	0.01%	60									
35017	368460	387875	5	<10	30	20	38	7	0.08%	60									
35029	369150	387660	0	<10	35	55	33	7	0.19%	130									
35031	368900	387630	0	<10	65	50	14	7	0.20%	75									
34	368675	387600	0	<10	35	20	59	7	0.15%	240									
37	368525	387595	5	<10	30	20	79	7	0.03%	90									
40	368665	387050	5	<10	30	170	42	7	0.10%	60									
42	368900	387095	5	<10	30	110	23	7	0.12%	80									
44	369095	387175	5	SAMPLE MISSING															
47	369340	387185	5	<10	40	70	33	7	0.14%	65									
50	369635	387240	0	<10	35	70	68	7	0.04%	85									
52	369640	387275	5	<10	60	95	45	7	0.07%	45									
54	369565	387140	0	<10	35	130	66	7	0.03%	40									
56	369590	387135	5	<10	20	150	11	7	0.24%	25									
59	369535	387120	0	<10	40	190	16	7	0.10%	35									
61	369545	387110	0	<10	35	90	34	7	0.27%	40									
63	369610	386970	0	<10	35	50	74	7	0.02%	35									
65	369630	386975	5	<10	35	85	68	7	0.03%	55									
67	369680	386945	5	<10	55	75	35	7	0.15%	75									
69	369700	386945	5	<10	30	65	80	7	0.01%	10									
71	369860	386850	0	<10	50	100	50	7	0.06%	55									
73	369870	386870	0	<10	25	120	50	7	0.11%	90									
77	369525	386765	5	<10	130	55	48	7	0.08%	75									
35080	369900	386805	5	<10	40	125	76	7	0.01%	25									

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

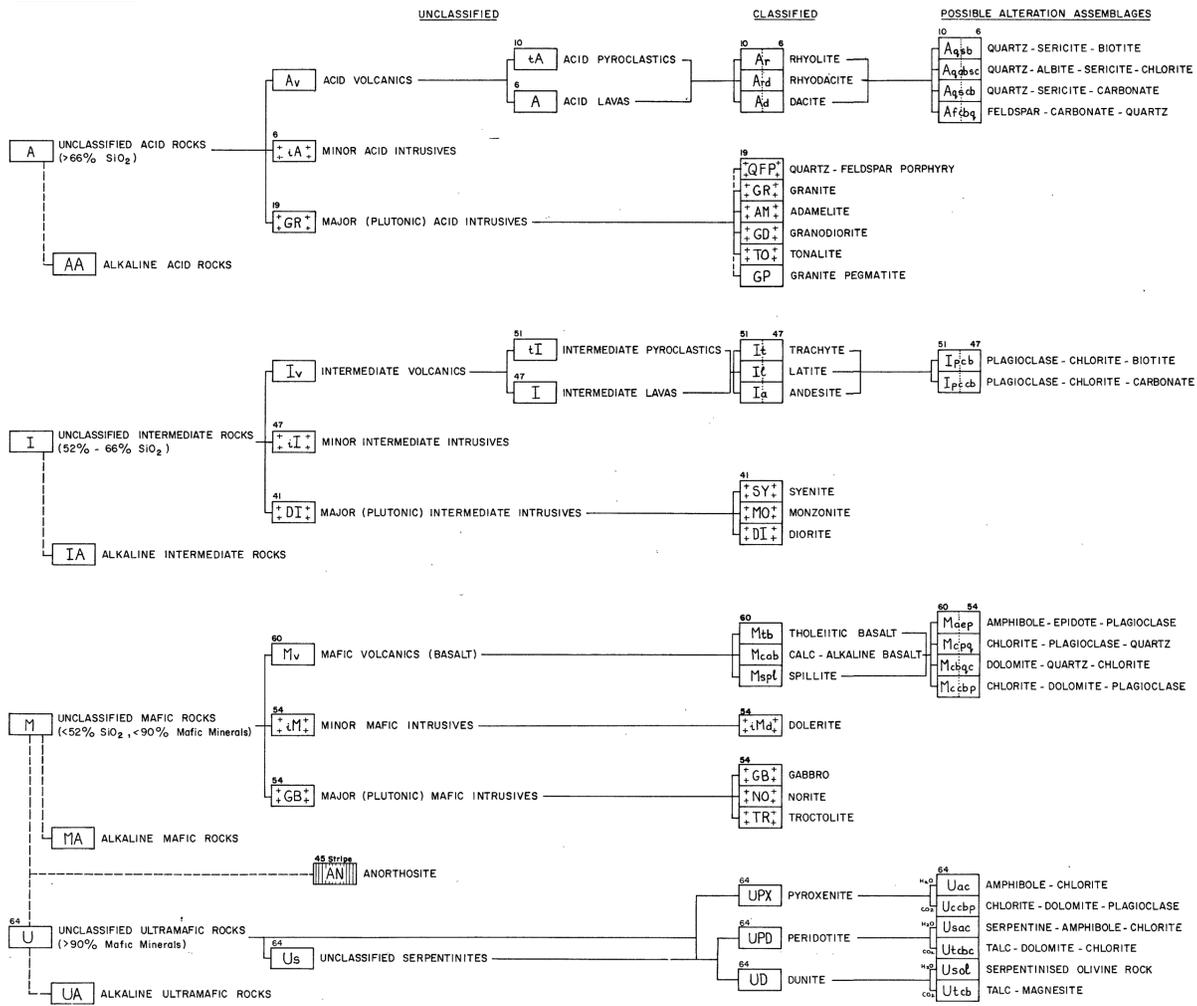
LOCALITY <b>MT. BLACK.</b> <b>EAST MURCHISON.</b>	CO-ORDINATES	SAMPLED BY	MATERIAL	SECTION
	LINE :	J. HILL R. HOLLISON I. McDONALD	Manganese Coated Pebbles from Drainage channels.	SHEET NO
	FROM :	DATE	DEPTH	ISSUE

SAMPLE NUMBER	CO-ORDINATES		Interval +/-	TO:						Fe%	Co	DESCRIPTION
	N/S	E/W		Cu	Pb	Zn	Mn%					
35082	369890	386790		<10	280	40	2.4%	0.17%	160			
	84369905	386685		<10	430	50	1.9%	0.12%	130			
	87369955	386370		<10	210	10	0.50%	0.17%	75			
	89370015	386765		<10	30	75	6.5%	0.05%	30			
	91370015	386790		<10	30	35	7.6%	0.02%	30			
35093	370200	386745		<10	30	110	6.7%	0.04%	10			
35105				<10	35	65	3.9%	0.18%	230			
	110			<10	35	15	2.1%	0.43%	120			
	116369950	387730		<10	30	80	7.0%	0.03%	30			
	118369970	387765		<10	25	40	7.6%	0.03%	55			
	120369935	387740		<10	40	540	2.5%	0.06%	50			
	136369175	388455		<10	30	100	7.7%	0.01%	30			
	140369303	386285		<10	130	25	6.2%	0.05%	75			
35146	369530	386240		<10	50	110	1.8%	0.20%	50			
34426	367645	387355		<10	30	15	7.3%	0.06%	75			
429	367705	387325		<10	45	15	5.0%	0.14%	110			
431	367790	387275		<10	40	15	6.6%	0.12%	180			
433	367795	387285		<10	40	10	8.3%	0.03%	110			
34435	368020	387325		<10	40	210	9.0%	0.02%	70			

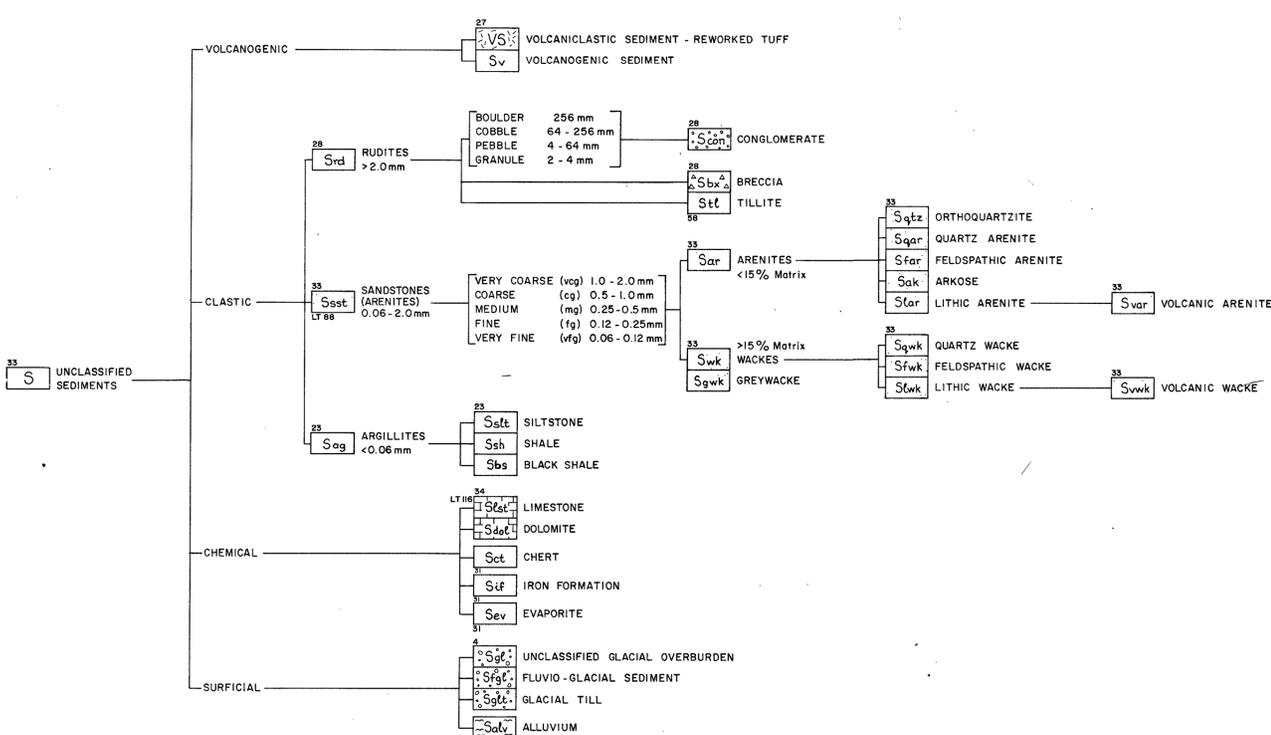
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78

**IGNEOUS ROCKS**



**SEDIMENTARY ROCKS**



**METAMORPHIC ROCKS**

69 (Igneous overstripe if required)  
 [SCH] UNCLASSIFIED SCHISTS

**IGNEOUS GRAIN SIZE**

vsg	VERY COARSE GRAINED	>5cm
cg	COARSE GRAINED	5cm - 5mm
mg	MEDIUM GRAINED	5mm - 1mm
fg	FINE GRAINED	<1mm

**STRUCTURAL AND TEXTURAL SYMBOLS**

LT 958	+	MAJOR INTRUSIVES
LT 963	+	MINOR INTRUSIVES
LT 132	+	UNDIFFERENTIATED TUFF
LT 132	+	LITHIC TUFF
LT 132	+	CRYSTAL TUFF
LT 132	+	VITRIFIC TUFF
LT 130	+	LAPILLI TUFF
LT 970	+	4 - 32mm PYROCLASTIC BRECCIA
LT 970	+	>32mm AGGLOMERATE
LT 191	+	ASH FLOW
LT 132/103	+	ASH FALL (AIR FALL TUFF)
LT 973	+	LAVA BOMBS
	+	PUMICE
	+	FIAMME (LENGTH IN cms)
	+	PORPHYRITIC
	+	AMYGDALOIDAL
	+	VESICULAR
	+	SPHERULITIC
	+	WELDED
	+	REWORKED
	+	ACICULAR
	+	OPHTIC
	+	CLOTS
	+	PEGMATIC
	+	QUARTZ EYES/AUGEN TEXTURE
	+	BANDING
	+	FLOW BANDING
	+	FLOW BRECCIA
	+	PILLOWS (WITH FACING)
	+	CHILLED MARGIN
	+	VEINS
LT 153	+	BEDDED
	+	CROSS BEDDED
	+	THICK BEDDED
	+	THIN BEDDED
	+	LAMINATED
	+	GRADED or DIRECTION OF DECREASING GRAIN SIZE
	+	LODE CAST
	+	SCOUR AND FILL
	+	MASSIVE
	+	CLEAVED
	+	SCHISTOSE
	+	JOINTED
	+	BRECCIATED (TECTONIC)
	+	OXIDISED
	+	LATERITE
	+	STAINING
	+	INTERBEDDED
	+	HORNFELSED

**STRUCTURAL SYMBOLS**

---	FAULT
---	DEFINITE CONTACT or OUTCROP LIMIT
---	APPROXIMATE CONTACT or RUBBLE BOUNDARY
---	INTERPRETED CONTACT or FLOAT BOUNDARY
---	SCHISTOSE ZONE
---	UNCONFORMITY
---	BEDDING
---	OVERTURNED BEDDING
---	CLEAVAGE
---	PRIMARY FOLIATION
---	JOINTING
---	PLUNGE
---	FOLD AXIS PLUNGE
---	FACING

**SULPHIDE AND OXIDE MINERALOGY**

bwk	BOXWORK
su	SULPHIDES
gos	GOSSAN
pn	PENTLANDITE
hm	HÆMATITE
cc	CHALCOCITE
cv	COVELLITE
bn	BORNITE
cp	CHALCOPYRITE
sp	SPHALERITE
gn	GALENA
po	PYRRHOTITE
py	PYRITE
il	ILLMENITE
lc	LEUCOXENE
mag	MAGNETITE
lim	LIMONITE
mn	MANGANESE OXIDES
chr	CHROMITE

**MINERALISATION**

STÄDTLER 104-2	DIS5	10% DISSEMINATED
	DIS8	10 - 20% DISSEMINATED
	DIS9	~25% DISSEMINATED
	STR	STRINGER
	MAS	MASSIVE

**DRILL HOLE SYMBOLS**

○	DRILL HOLE - BARREN
●	DRILL HOLE - MINOR OR POSSIBLE SUB-ORE GRADE MINERALISATION
●	DRILL HOLE - SIGNIFICANT OR POSSIBLE ORE GRADE AND WIDTH
○	DRILL HOLE - FAILED TO REACH TARGET

**SILICATE MINERALOGY**

20	q	QUARTZ
51	k	K - FELDSPAR
17	ab	ALBITE
45	p	PLAGIOCLASE
45	a	AMPHIBOLE
10	px	PYROXENE
10	b	BIOTITE
45	c	CHLORITE
55	cb	CARBONATE
31	s	SERICITE
46	e	EPIDOTE
64	t	TALC
6	ba	BARITE
46	f	FELDSPAR
46	hb	HORNBLÉNDE
55	sd	SIDERITE
47	to	TOURMALINE
51	ov	OLIVINE

**ALTERATION MINERALOGY**

17	ab	ALBITISED
45	cb'd	CARBONATED
55	cd	CHLORITISED
31	sd	SERICITISED
20	sl	SILICIFIED
46	hb'd	HORNBLÉNDEISED
47	to'd	TOURMALINISED
27	ker	KAOLINISED

**COLOURS**

pk	PALE
dk	DARK
pk	PINK
rd	RED
org	ORANGE
yel	YELLOW
ol	OLIVE
grn	GREEN
bl	BLUE
gr	GREY
blk	BLACK
brn	BROWN
wh	WHITE
crm	CREAM
purp	PURPLE

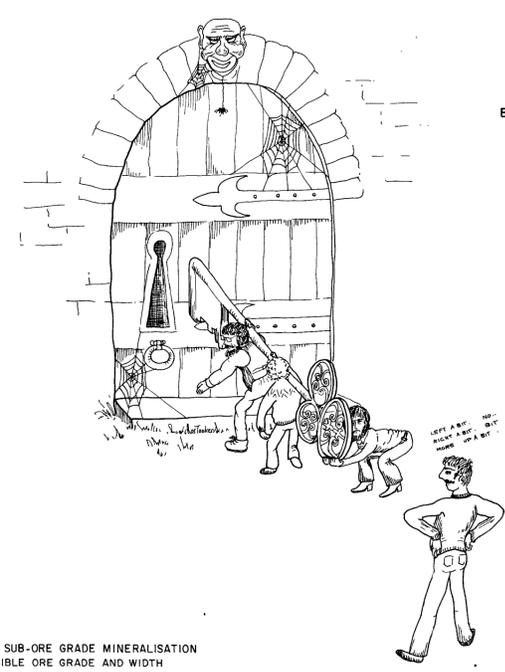
**TOPOGRAPHICAL SYMBOLS**

---	WATER RACE
---	FENCE
---	FORMED ROAD
---	TRACK
---	RAILWAY
---	RAILWAY (ABANDONED)
---	RIVER
---	STREAM
---	LAKE
---	SWAMP
---	BUILDING
---	POWER LINE
---	TRIG. STATION
---	HILL
---	SHAFTS
---	ADIT
---	TRENCH
---	MINE OR QUARRY

**OPERATION OF LEGEND**

**DESCRIBING ROCK UNITS**

- CAPITAL LETTER: indicates primary classification eg. S - sedimentary rocks  
A - acid igneous rocks
  - LOWER CASE LETTERS: indicates the following -
    - AS PREFIXES: in progressive order
      - COLOURS eg. gmM: green mafic igneous rock  
pk/gm A: pink fragments or phenocrysts in an acid igneous rock with a green matrix
      - STRUCTURAL or TEXTURAL FEATURES  
eg. xA: crystal tuff of acid composition  
xbdS: cross bedded sedimentary rock
    - AS SUFFIXES: in progressive order
      - CATEGORISED  
eg. Ar: rhyolite, Ssh: Shale
      - MINERALOGY  
eg. pArf: rhyolite with feldspar phenocrysts  
Aqs: quartz sericite rock of acid igneous origin  
Arab: albitised rhyolite
- EXAMPLE: pk/gm cl'd xvt Ar'd ab c'd  
 pk/gm: (Colours) pink crystals in a green matrix  
 cl'd: (Structural feature) cleaved  
 xvt: (Texture) crystal vitric tuff  
 A: (Primary subdivision) acid igneous rock  
 rd: (Categorised) rhyodacite  
 ab: (Primary mineralogy) albite phenocrysts  
 c'd: (Alteration mineralogy) chloritised



LT 132: Code Number of LETRATONE pattern  
 10: Number of CUMBERLAND DERWENT SERIES No. 19 Coloured Pencil

ELECTROLYTIC ZINC CO. OF ASIA LTD.		
PROJECT:	TAS.	
282027		
GEOLOGICAL LEGEND		
EXPLORATION		
Plate 1	84-2279 1574	
SCALE:	Survey: I.R.M.	Revised:
Reference:	Date: August 1980	REF. NO.
Drawn: R.P.T.	Checked: J.L.M.	AI-504 - ORIGINAL

**LEGEND**

- Walking Track Cut and Geology Mapped
- Creek Geology Mapped and Stream Sediment Sampled



5380000 mN

380000 mE

390000 mE

E.L. 12/72

E.L. 5/63

E.L. 5/63

E.L. 2/70

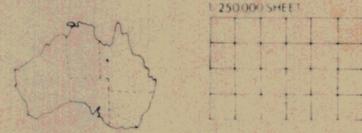
E.L. 24/84

E.L. 4/73

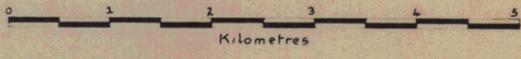
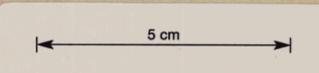
E.L. 9/66

5370000 mN

5360000 mN



SCALE

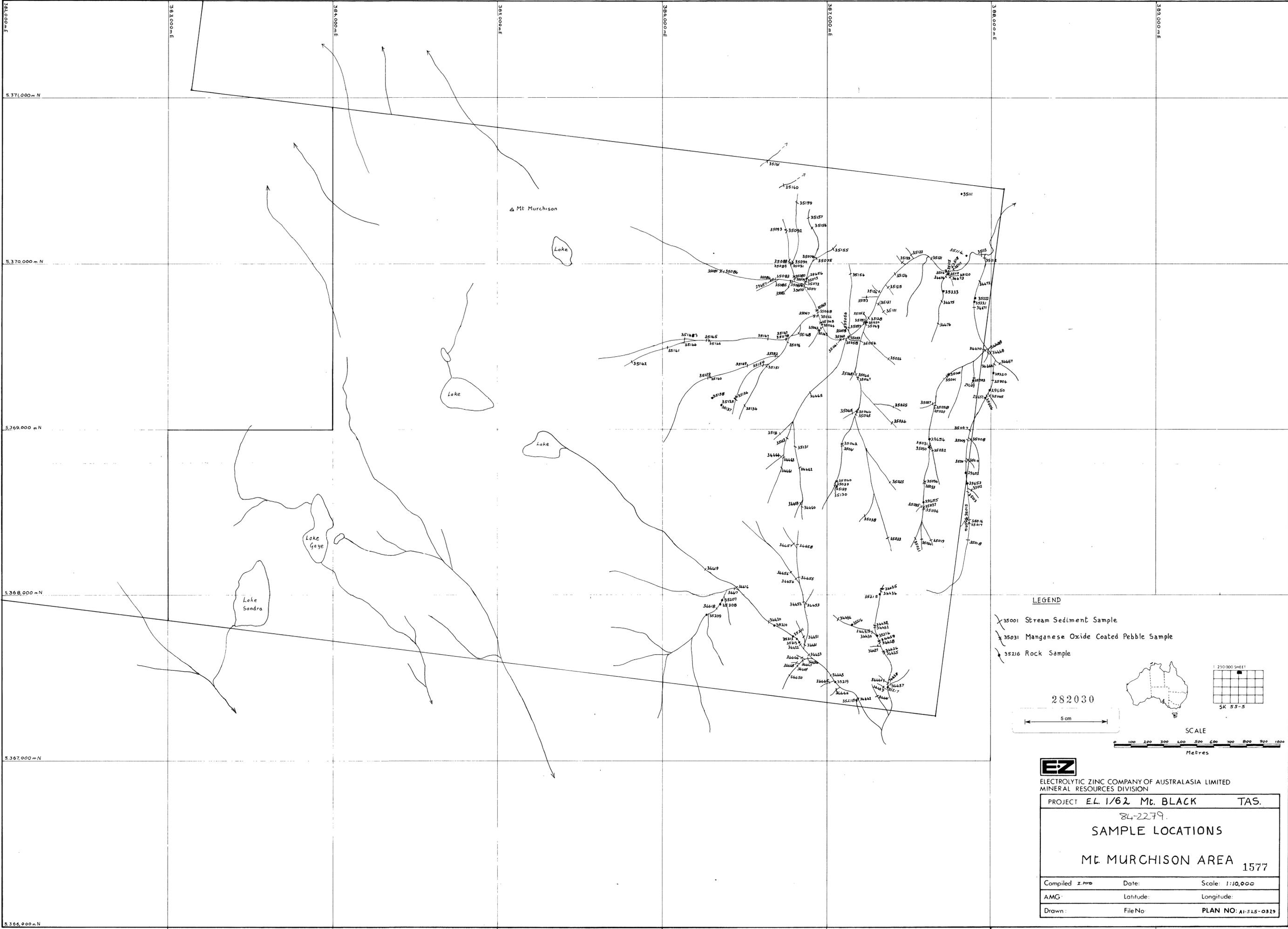


ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED  
MINERAL RESOURCES DIVISION

PROJECT: EL 1/62 MT. BLACK TAS.		
84-2279		
WORK COMPLETED		
MT. MURCHISON AREA 1575		
Compiled:	Date:	Scale: 1 : 50,000
AMG	Latitude:	Longitude:
Drawn:	File No	PLAN NO: AZ-504-0345

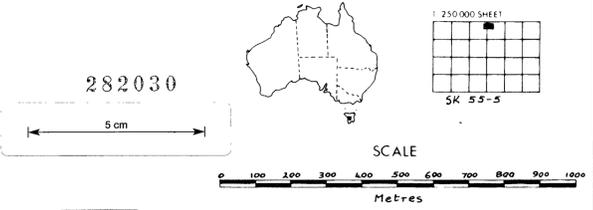
282028





**LEGEND**

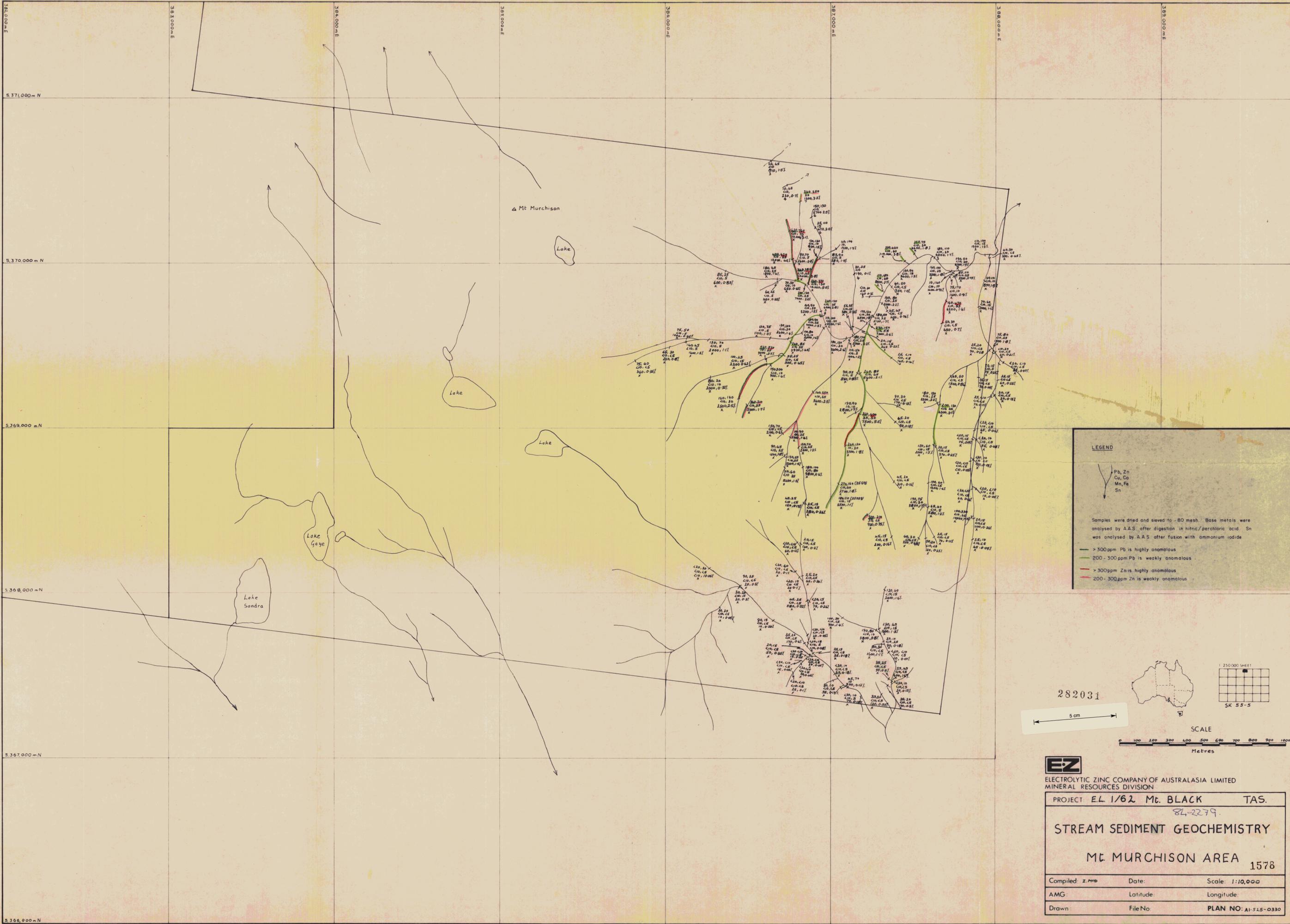
- 35001 Stream Sediment Sample
- 35031 Manganese Oxide Coated Pebble Sample
- 35216 Rock Sample



ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED  
MINERAL RESOURCES DIVISION

PROJECT **E.L. 1/62 Mt. BLACK TAS.**  
84-2279  
**SAMPLE LOCATIONS**  
**Mt MURCHISON AREA 1577**

Compiled <b>Z.M.D.</b>	Date:	Scale: <b>1:10,000</b>
<b>AMG</b>	Latitude:	Longitude:
Drawn:	File No:	<b>PLAN NO: AI-525-0329</b>

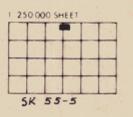


**LEGEND**

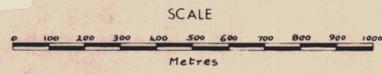


Samples were dried and sieved to - 80 mesh. Base metals were analysed by A.A.S. after digestion in nitric/perchloric acid. Sn was analysed by A.A.S. after fusion with ammonium iodide

- > 300ppm Pb is highly anomalous
- 200 - 300ppm Pb is weakly anomalous
- > 300ppm Zn is highly anomalous
- 200 - 300ppm Zn is weakly anomalous



282031  
5 cm



ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED  
MINERAL RESOURCES DIVISION

PROJECT: E.L. 1/62 Mt. BLACK TAS.  
87-2279.  
**STREAM SEDIMENT GEOCHEMISTRY**  
**Mt MURCHISON AREA** 1578

Compiled: x.m.m.	Date:	Scale: 1:10,000
AMG:	Latitude:	Longitude:
Drawn:	File No:	PLAN NO: AI-5.15-0330