

EXPLORATION LICENCE 1/62 - MT BLACK
ANNUAL REPORT ON EXPLORATION ACTIVITY
IN THE COLEBROOK AREA FOR 1986

EZ REPORT NO T222

86-2621

961001



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OPEN FILE

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1 INTRODUCTION

This report covers work on the Colebrook area of EL 1/62 from 11 December 1985 to 16 December 1986 by Electrolytic Zinc Company of Australasia Ltd on behalf of the EZ-Little River Resources Pty Colebrook Joint Venture. The area covered by this joint venture is shown in Fig 1. The remainder of EL 1/62, outside the Read-Rosebery and Farrell Mine Leases, comprises the project area of the EZ-Billiton-Little River Resources Rosebery East Joint Venture.

2 PREVIOUS EXPLORATION

Reports on previous exploration of the area, prior to 1980, are listed in EZ Report No 134. Subsequent work is covered by EZ Report Nos 142 (1981), 144 (1981), 148 (1982), 158 (1982), 164 (1983), T173 (1983), T178 (1984), T198 (1984), T199 (1984), and T212 (1985).

3 WORK COMPLETED

EZ's 1986 activities focussed on further investigations of the gold potential of the Moores Pimple-Bather Creek area, based on the Timmins gold model (Fig 2; Pyke, 1976; Fyon and Crocket, 1982; Karvinen, 1982). This project, begun in 1984 (EZ Report No T199), was initially prompted by similarities between the geological environments of the Moores Pimple and Timmins areas as follows:

- * proximity to a sedimentary/volcanic contact represented by a major fault zone (the Rosebery fault);
- * occurrence of feldspar porphyry intrusive and/or extrusive bodies;
- * presence of significant carbonate alteration in the form of carbonatized ultramafics;
- * an abundance of fuchsite;
- * prominent veining and sulphides;
- * general features suggestive of proximity to a volcanic vent.

The following work was undertaken in the gold investigation:

- * geological mapping of the Moore Pimple-Bather Creek area along creeks and existing access tracks;
- * the collection of 50 rock chip samples and analyses for Cu, Pb, Zn, Cr, Ag, Au, As, Sb, Ba and B by the following methods:

Cu, Pb, Zn, Cr, Ag - AAS after perchloric acid digestion
Au - 30 g fire assay with AAS finish
Sb, As, Ba - XRF
B - ICP

The locations of all these samples are shown in Fig 3;

- * logging of the Mines Dept drill hole MP1 (-60°W, collar position 5364110N, 374655E), which was designed to intersect the Rosebery Fault and investigate the complex stratigraphic relationships to the west.

In addition 14 rock chip samples were taken from the Lynton Mine (7) and the Moores Pimple Gabbro (7) to check the possibility that platinum group elements could be concentrated in zones of hydrothermal alteration in ultrabasic and basic rocks. The Lynton deposit (Fig 4) comprises a small galena-barite lode on the faulted contact of the Colebrook Hill Serpentinite and Crimson Creek country rocks in a zone of silicification and carbonatization. The Moores Pimple Gabbro (Fig 3) is a strongly altered gabbroic intrusive containing extensive chlorite, fuchsite, carbonate and silica alteration.

4 RESULTS

4.1 Surface Mapping

Stratigraphy

The interpreted geology of the Moores Pimple area is presented in Fig 3. A major thrust fault (the Rosebery Fault) divides the geology of the area into two distinct regimes; the White Spur Formation of mainly clastic sediments and minor epiclastics east of the fault, and a complex volcano-sedimentary sequence with ultramafic intrusives west of the fault, which is equated with part of the Dundas Group.

White Spur Formation east of the Rosebery Fault

The White Spur Formation, at the base of the Dundas Group and unconformably overlying "Central Sequence" Volcanics, consists of greywackes, sandstones, siltstones and shales with a variable epiclastic component, comprising volcanogenic lithic wacke horizons of probably mass-flow origin. Folding is prominent through the sequence, except close to the fault where dips are consistently moderate to the east (approaching the dip of the fault) and facings are westerly.

Dundas Group west of the Rosebery Fault

A complex, folded and partly disrupted sequence west of the Rosebery Fault has similar stratigraphic units to the disrupted Dundas Group in the Natone Creek area, west of Rosebery, and in the Pieman River gorge. The sequence is interpreted to be a younger part of the Dundas Group than that east of the fault.

The sequence comprises:

- * interbedded micaceous quartz-wacke, greywacke, siltstone and shale, possibly representing the Stitt Quartzite;
- * dolomitic siltstones, dolomitic wacke and dolomite equivalent to the Westcott Argillite;
- * polymictic conglomerate, of well-rounded sandstone, siltstone, shale and chert clasts in carbonate or siliceous matrix; locally with minor fuchsite, and identical to the Salisbury Conglomerate;
- * quartz porphyry lavas and possibly intrusive phases, including some odd breccia and clastic phases (see Moores Pimple drill hole log) that are interpreted to be subaqueously emplaced lavas. These have no direct correlates in the Dundas Group elsewhere but may be related to quartz-phyric felsic tuffs of the Natone Volcanics.

Two gabbroic to ultramafic intrusive outcrop in the area. On the western side of Moores Pimple, an elongate body is completely carbonate-fuchsite-silica altered, retaining only relict ilmenite grains of its original mineralogy (CMS Report 84/3/36). Samples from the Evenden (or Moores Pimple) Mine dump on this intrusive, are of carbonate-veined and fuchsite-altered ultramafic.

The gabbroic body north-east of Moores Pimple has a relatively unaltered core of a mesh of pyroxene and feldspar crystals, but the margin is often heavily fuchsite-carbonate-silica-talc altered, and locally contains sulphides. A sliver of strongly altered ultramafic occurs along the Rosebery Fault in the top of Bather Creek.

Rosebery Fault

The Rosebery Fault is a major underthrust (ie younger rocks have been thrust beneath older rocks) now known to extend from the Pieman River north of Rosebery, through the Salisbury and Chamberlain Mines near Rosebery, past the Jupiter prospect and Williamsford to Moores Pimple. In the Rosebery area the fault is known to have a down-dip displacement of at least 1.5 km.

Bather Creek essentially follows the fault line and from there the fault crosses the Moores Pimple track (and was intersected in the Moores Pimple drill hole) and is exposed in White Spur Creek. The fault appears to change direction to SW at White Spur Creek, but this is largely a result of the moderate east dip ($35-40^{\circ}$ along the known length) and topography.

The Rosebery Fault contains sporadic gold mineralization over several kilometres of its strike length near Rosebery, but the gold is only present where the fault is infilled by significant quartz-tourmaline veining.

Mineralization

Several styles of mineralization are present in outcrop in the Moores Pimple area, as follows.

* Sulphides in altered mafic/ultramafic intrusives

Patchy disseminated to stringer sulphides occur in the altered rim of the mafic/ultramafic at 5364490N, 374580E (sample 62859). This, together with similar rocks with trace sulphides from the opposite altered margin (sample 62870) and one sample from the Evenden Mine, contain the only anomalous Au values recovered from the area during the current programme, of between 0.067 and 0.117 g/t Au.

* Pyrite in Sediments

Minor pyrite occurs in black slates and occasionally in dolomites, both as fine stratiform layers, and later veinlets and fracture-filling deposits.

* Quartz-Sulphide Veins

Late-stage quartz veins with minor scattered argentiferous galena and sphalerite occur in the White Spur Formation east of the Rosebery Fault.

4.2 Mines Department Drillhole

A detailed log of the Tasmanian Mines Dept stratigraphic drillhole at Moores Pimple is included as Appendix 1. The hole was collared in the White Spur Formation of sandstone, siltstone and greywacke, intersected the Rosebery Fault at 132.6-133.5 m, then passed through a complex sequence of acid volcanics and sediments thought to have been deposited proximal to a volcanic vent.

Mineralization comprises mainly pyrite as disseminations, veinlets and infillings in brecciated zones. Anastomosing carbonate veins with minor pyrite, galena and sphalerite occurring in breccia zones (eg 214.0-214.3 m, 282.0-282.7 m) west of the Rosebery Fault, are thought to be equivalent to the "fahlore" veins which are common in the Ring River to Colebrook area.

4.3 Geochemistry

The results of the surface chip and grab sampling, listed in Table 1, gave no indication of significant gold mineralization in the area. Of the 50 analyses, no fewer than 42 returned less than the detection limit of 0.008 ppm Au and the highest recorded value was only 0.117 ppm Au in sample 63892 from a carbonatized, brecciated, fuchsitic ultramafic in the Evenden Mine dump.

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Similarly the gold pathfinder elements As, Sb and B, which are useful in gold exploration of the Timmins area, offered no encouragement to further gold exploration in the immediate area.

Of the other elements analysed, base metals are elevated in places along with weakly anomalous Ag, but in most cases the values merely reflect minor disseminated or veined sulphides in altered ultramafics. As for the elevated chromium values, these obviously reflect the presence of chromite and fuchsite in ultramafics.

In the Moores Pimple drillhole, analyses of the mineralized stratigraphy west of the Rosebery Fault contained nothing of economic interest. Gold was either at, or in most cases below, the detection limit of 0.008 ppm, while weakly anomalous Pb, Zn, Cu and Ag are related to minor disseminated and veined pyritic zones or to galena-sphalerite-carbonate "fahlore" veinlets of limited extent.

The results of the analyses for platinum group elements (Table 2) were also negative, the highest values being only 0.019 ppm Pt and 0.026 ppm Pd.

5 CONCLUSIONS

Although the Moores Pimple area contains some of the lithologies and alteration assemblages of the Timmins gold area, the low gold values in the chip sampling coverage appear to have discounted the possibility of significant gold mineralization in the immediate area.

6 RECOMMENDATIONS

No follow-up work is required.

REFERENCES

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Bulletin, September 1976, p
79-87.

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Electrolytic Zinc Co. of Asia Ltd. Rosebery, Tas.			ROCK SAMPLE LEDGER				PROJECT: Mt Black Au.		LOCALITY: Moores Pimple									
							COLLECTED BY: Trees		DATE: 28-10-85 14-4-86									
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 or P	By	Reference	Rock-type (Microscopic)	Cu	Pb	Zn	Cr	Ag	Au	As	Sb	Ba
56 310	5364 185	374 525	5m chip	Chd, tab bl shale	Ssh					25	5	95	30	X	X	6	X	650
311	5364 185	374 505	4m chip	Swarmed, Sbs frags/si qnd matrix	i/tA					25	5	70	30	X	X	3	X	240
312	5364 180	374 485	5m chip	QP g/si quartz	QP					15	15	25	15	X	X	X	3	100
313	5364 170	374 445	10m chip	tA? dlformed Sbs frags/sil	i/tA					25	630	165	30	1.0	X	5	20	350
314	5363 525	374 285	Grab	Bx'd iM? chd qnd	CM					10	5	115	230	X	X	7	3	130
315	5363 530	374 270	2m chip	Bx'd QFP.	QP.					25	5	20	25	X	X	X	X	220
317	5363 540	374 255	Grab	QP g/felnic.	QP.					40	X	105	560	X	X	3	X	200
56 321	5364 460	374 640	Grab	bx'd i? QP frags kichitic	QP?					50	X	25	X	1.0	X	25	35	330
323	5364 455	374 680	5m chip	Major b'd cb kichitic; q veinad	U? chd qnd					65	15	75	X	0.5	X	X	X	250
325	5364 495	374 740	Grab	Sil frags/Ssh matrix q-cb vnd.	Bx					6550	175	210	X	3.5	X	300	20	290
326	5364 305	374 575	Grab.	t/A si	t/A si					10	80	95	X	1.5	X	X	60	760
327	5364 320	374 570	Grab	q-cb rock qnd.	U? chd si					130	50	100	X	1.5	X	5	80	410
328	5364 335	374 560	Grab	t/A q/g si kichitic	QP.					5	X	25	585	1.0	0.008	9	5	20
329	5364 465	374 730	Grab	msv cb-g	U chd si					10	X	20	X	X	X	X	X	710
56 330	5364 665	374 740	2m chip	sil bx.	bx.					25	X	20	X	X	X	X	X	230
331	5364 665	374 750	Grab	Sldd lg py.	Sldd.					25	20	15	X	0.5	X	10	4	610
333	5364 890	374 740	Grab	GB px	GB.					5	10	225	X	X	X	X	X	300
334	5364 885	374 780	Grab-5m	QP g/sil	QP.					25	130	130	X	X	X	X	4	290
335	5364 880	374 892	Grab-2m	Sgwk/Sld. dolomitic quartz vnd	Sgwk/Sldd.					10	115	155	X	X	X	4	X	250
336	5364 880	374 920	Grab-5m	QP g/g si diss py i?	QP.					10	25	60	X	0.5	X	X	X	310
337	5364 880	374 925	Grab-2m	Ssh b'd, cb vnd	Ssh-b'd.					20	60	55	X	1.0	X	20	3	430
338	5365 020	374 940	Grab-10m	Breccia - frags QP in si matrix.	Bx					15	15	40	X	0.5	X	X	X	350
339	5362 550	374 720	Grab	Quartz-galena-sphalerite vein						1225	14.9	723	100	475	0.008	25	300	X
340	5362 520	373 870	Select	Porphyrous vnd; brown spring	Fe					25	740	510	25	1.0	X	140	3	130
341	5363 485	374 770	Grab 2m	Shale, silicified and quartz-veined						5	150	25	240	1.5	X	9	3	120
342	5363 305	373 940	Grab.	Brecciated shale or pelitic vnd						5	60	40	85	1.0	X	2	X	180
343	5363 350	374 845	Grab	Breccia - QFP frags in shale matrix	Bx					15	30	60	65	1.5	X	2	X	670
56 344	5363 460	374 020	Grab	Breccia - QFP frags in shale matrix	Bx					10	35	50	60	1.5	X	2	X	250
METHOD (ANALYSIS)										101	101	101	101	101	309	401	403	401
DETECTION										5	5	5	5	5	0.008	2	3	10

Table 1

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008

Electrolytic Zinc Co. of A'asia Ltd. Rosebery, Tas.			ROCK SAMPLE LEDGER					PROJECT: Mt Black Au		LOCALITY: Mooser Pipe.							
								COLLECTED BY: T. Loes - I. McDonald		DATE: 28-10-85							
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 or P	By	Reference	Rock-type (Microscopic)	Cu	Pb	Zn	Cr	Ag	Au	As	Sb
63879	5364450	374000	Grab	Msv rex carb.	U chid.				x	45	235	250	x	0.017	15	x	x
880	5364500	374040	"	Msv carb si qvad.	U chid si				5	5	150	2650	x	x	x	x	x
881	5364445	374080	2m chip	Quartz + cb si	Ch-rg.				20	10	65	710	x	x	25	15	30
882	5364445	374094	Grab	Carb + goss.	U chid				205	35	800	945	0.5	x	45	75	x
883	5364440	374090	2m chip	Quartz + si rock	U chid qvad				75	165	900	880	x	x	10	25	30
884	5364420	374005	Grab	Ch si qvad	U chid si				15	x	25	755	x	x	6	x	x
885	5364380	374005	2m chip	Msv cb	U chid.				5	x	60	885	x	x	65	55	40
886	5364380	374010	Grab	Msv cb + goss.	U chid				5	x	205	980	0.5	x	30	25	350
887	5364355	374010	"	Msv cb with heulandite	U chid				5	x	115	735	x	0.008	240	100	x
888	5364310	374010	"	Msv siliceous rock	U chid si				5	230	125	455	x	x	240	85	60
889	5364295	374010	"	Msv carb + goss.	U chid				70	1500	2250	660	x	x	510	140	980
63890	5364300	373930	Grab	Silt dol Eumelan lump	Silt dol.				10	x	55	55	x	0.008	4	x	1450
891	5364300	373920	"	Msv carb micr py tr ep. "	U chid.				1800	50	150	2400	4.0	0.032	340	45	15
892	5364300	373920	"	U chid chond. heulandite "	U.				75	15	320	2550	x	0.117	20	8	230
893	5364300	373920	"	Msv carb "	U chid.				5	55	115	870	x	x	240	50	x
894	5364300	373920	"	Msv carb to cherty "	U chid si				75	710	455	1450	0.5	x	240	3	x
895	5364145	374070	4m chip	Msv carb si qvad	U chid si				10	15	120	2100	x	x	9	x	x
896	5364140	374115x	2m chip	Msv carb si qvad	U chid si				10	x	50	670	x	x	10	x	20
897	5363850	374145	Grab	Msv carb si heulandite.	U chid si				5	x	85	1450	x	x	x	x	110
898	5363850	374180	Grab	Msv carb heulandite	U chid				15	x	80	935	x	x	x	x	140
63899	5364425	373935	grab	Msv carb si	U chid si				100	5	175	1650	x	x	200	20	10
63900	5364415	374550	grab	i/Ar quartz amygdaloides	i/Ar q.				15	5	70	40	x	0.025	5	x	400
METHOD (ANALYST)									101	101	101	101	101	309	401	402	401
DETECTION									5	5	5	5	5	0.008	2	3	10

Table 1 (cont'd)

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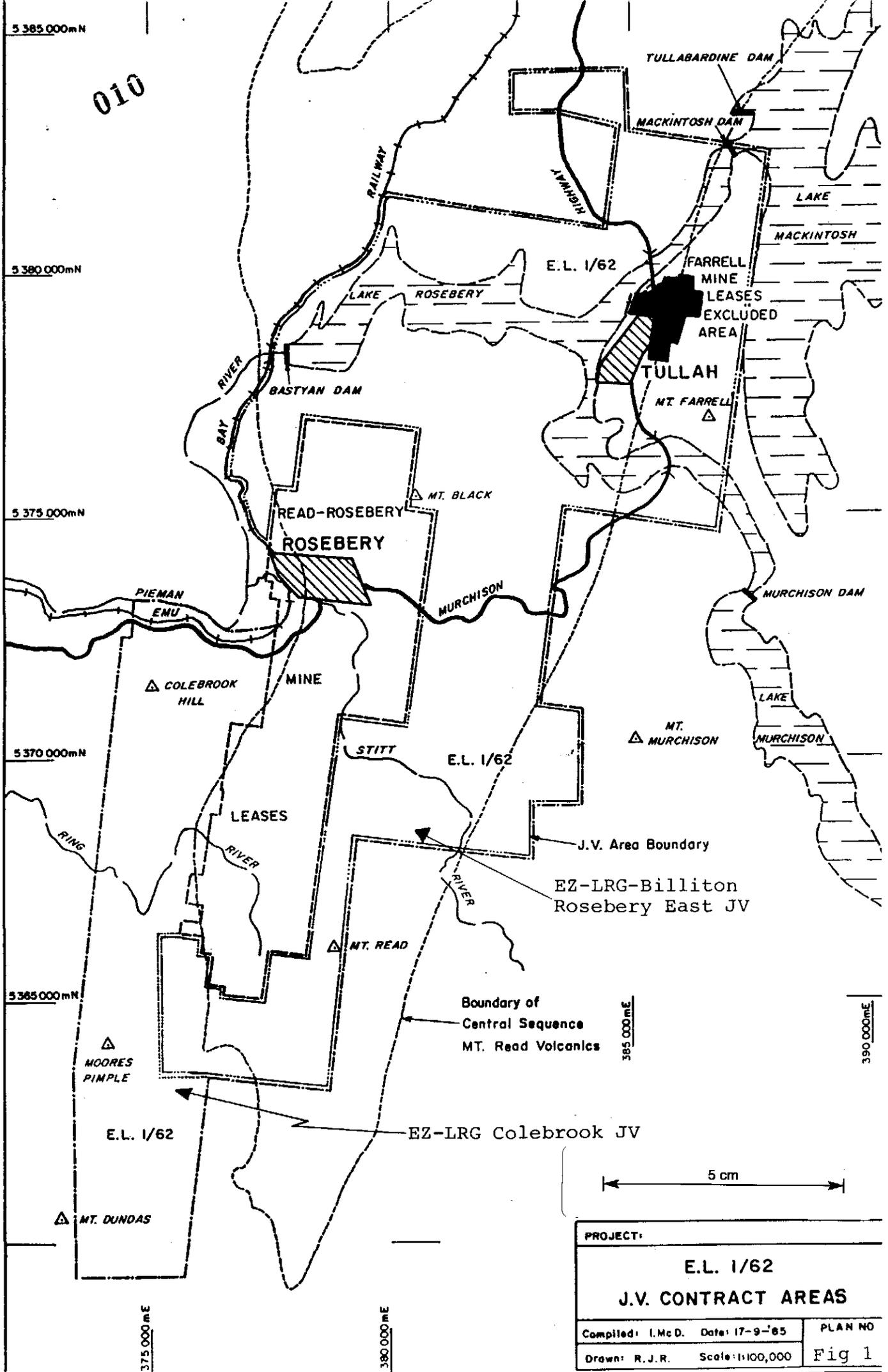
Electrolytic Zinc Co. of A'asia Ltd. Rosebery, Tas.			ROCK SAMPLE LEDGER				PROJECT: T.A.S. P.D.		LOCALITY: Colebrook - Moona Pimple								
A.M.G. Co-ordinates			Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section			Metal Content (p.p.m. unless specified)								
N	E	T or P				By	Reference	Rock-type (Microscopic)	Pt	Pd	V	Ni	Cu	Cr			
Colebrook Hill Grid Co-ordinates.				Samples 64357 → 64363 were taken from the vicinity of the Lynton Mine on Colebrook Hill.													
64357	369590	374307	Rock.	Galena Basalt "on" from small open pit						X	0.006	10	645	5	515		
64358	369590	374300	"	Galena Basalt "ace" from small shaft.						X	X	X	690	5	660		
64359	369600	374300	"	Ultramafic outcrop on grid line.						X	X	X	1610	X	2350		
64360	369580	374305	"	Talose ultrabasic floor by trench						X	X	30	475	5	2130		
64361	369570	374300	"	Ultrabasic from dump of main shaft.						X	X	X	2090	X	1340		
64362	369500	374258	"	Silicified Ultrabasic from outcrop on line.						0.019	X	X	1480	10	535		
64363	369500	374265	"	Slightly cleaned serpentinite from outcrop on grid line.						X	0.026	X	1930	X	2580		
Approx. A.M.G. Co-ordinates.				Samples 64364 → 64370 were taken from the Moona Pimple Gabbrro exposures on the access track from the N.E. Dundas Tram.													
64364	5364455	374590		Green & white silicified altered ?ultrabasic or basic						X	0.002	100	175	10	990		
64365	5364590	374580		strongly fuchsite altered ?UM or ?MG&						X	0.004	70	135	20	625		
64366	5364580	374550		Strongly altered mafic rock.						X	0.015	150	160	340	1340		
64367	5364730	374550		Altered chloritic mafic rock.						X	0.002	120	130	5	260		
64368	5364855	374455		" " " "						X	0.002	240	155	60	405		
64369	5364830	374465		chlorite, sericite, silica, altered microgabbro.						X	0.006	160	215	30	380		
64370	5365050	374416		Carbonated and silicified and quartz veined mafic (or UM?) rock.						X	0.009	110	510	20	1430		
										Defection Limit.		0.008	0.001	5	5	5	10

Table 2

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PROJECT:	
E.L. 1/62	
J.V. CONTRACT AREAS	
Compiled: I.McD. Date: 17-9-'85	PLAN NO
Drawn: R.J.R. Scale: 1:100,000	Fig 1

QUARTZ-FELDSPAR PORPHYRY

quartz, sodic plagioclase and sericite with small amounts of pyrite; massive to porphyritic texture, occasionally well foliated; intrusive/extrusive origin

110

UPPER CARBONATE MEMBER

0-80% ankerite with chlorite, plagioclase, sericite, quartz and pyrite; generally fine grained and well foliated; interpreted as carbonatized tuff or mixture of sedimentary carbonate & tuff; 30m thick, 670m above Lower Carbonate Member.

SCHUMACHER FORMATION

oleitic submarine lavas.

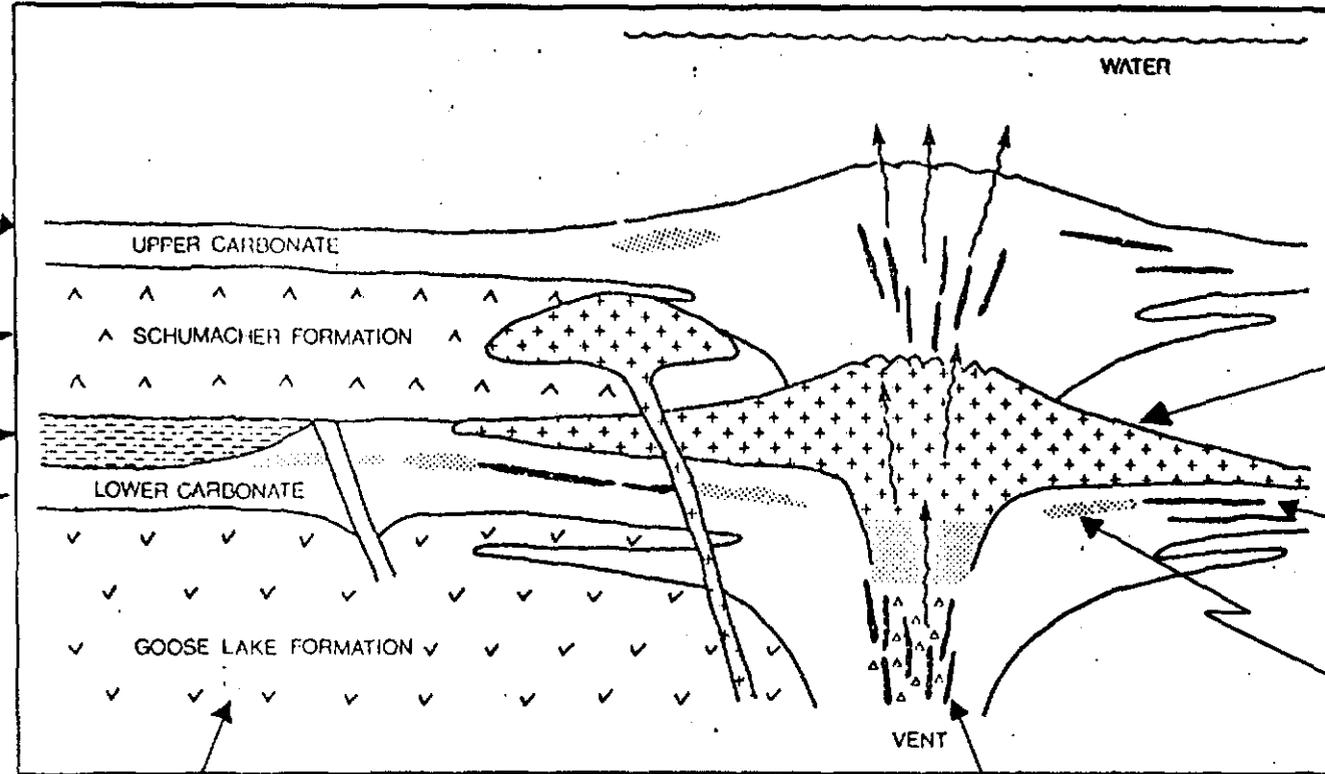
PYRITIC CHERT-CARBONATE SEDIMENTS

LOWER CARBONATE MEMBER

70-90% magnesite with lesser talc, ankerite, sericite, chlorite, quartz, fuchsite and pyrite, massive, medium to coarse grained; interpreted as carbonatized ultramafic flows and tuffs and/or chemical sediments; 70m thick.

GOOSE LAKE FORMATION

mafic volcanics with significant ultramafic (komatiitic) content



STRATABOUND GOLD
(Type 1)

DISSEMINATED TYPE GOLD
(Type 2)

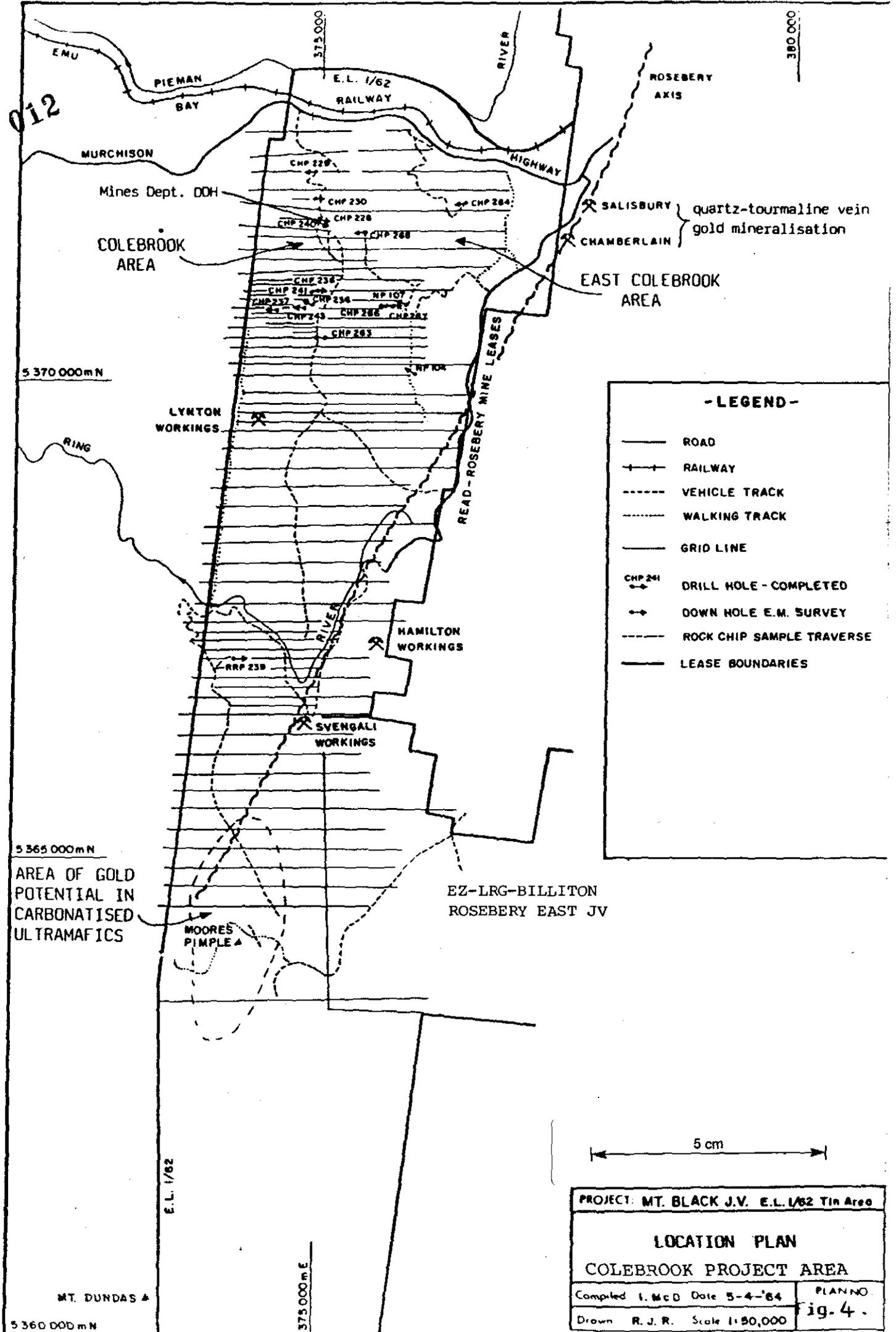
STRINGER GOLD
(Type 3)

FIG 2

IDEALISED MODEL OF GOLD MINERALISATION IN THE TIMMINS AREA, ONTARIO, CANADA

961013

961014



012

5 370 000 m N

5 365 000 m N

AREA OF GOLD POTENTIAL IN CARBONATISED ULTRAMAFICS

5 360 000 m N

375 000 m E

E.L. 1/62

MT. DUNDAS ▲

MURCHISON

Mines Dept. DDH

COLEBROOK AREA

LYNTON WORKINGS

HAMILTON WORKINGS

SVENGALI WORKINGS

MOORES PIMPLE ▲

EZ-LRG-BILLITON ROSEBERY EAST JV

E.L. 1/62 RAILWAY

RIVER

ROSEBERY AXIS

HIGHWAY

EAST COLEBROOK AREA

SALISBURY } quartz-tourmaline vein
CHAMBERLAIN } gold mineralisation

READ-ROSEBERY MINE LEASES

- LEGEND -

- ROAD
- + + RAILWAY
- - - VEHICLE TRACK
- WALKING TRACK
- GRID LINE
- CHP 241 DRILL HOLE - COMPLETED
- DOWN HOLE E.M. SURVEY
- - - ROCK CHIP SAMPLE TRAVERSE
- LEASE BOUNDARIES

5 cm

PROJECT: MT. BLACK J.V. E.L. 1/62 Tin Area	
LOCATION PLAN	
COLEBROOK PROJECT AREA	
Compiled I. McD Date 5-4-'84	PLAN NO.
Drawn R.J.R. Scale 1:50,000	fig. 4.

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APPENDIX 1

Geological log of the Mines Department
Moore's Pimple Drillhole

01A

PROJECT: <u>Moorea Pimple</u> LOCALITY: <u>Approx. 5 364 110N 374 655E</u> OBJECTIVE: <u>Drill the Rosebery fault and adjacent sequence.</u> RESULT: <u>Intersected mixed volcanic-sedimentary sequence on W. side Rosebery Fault, but no Au.</u>	GRID CO-ORDS: A.M.G. CO-ORDS: COLLAR R.L.: COLLAR DIP: AZIMUTH: TOTAL DEPTH: <u>415.5m</u>	HOLE SIZE: <u>0-9.0 HQ 9-415.5 NQ</u> CASING: COMMENCED: COMPLETED: <u>20th May, 1986</u> LOGGED BY: <u>T.C. Lees</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Depth (m)</th> <th>Azimuth (° m.g.)</th> <th>Dip</th> <th>Depth (m)</th> <th>Azimuth (° m.g.)</th> <th>Dip</th> </tr> <tr> <td>N.A.</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="text-align: center;"><i>Surveys done by Dept of Mines</i></p>	Depth (m)	Azimuth (° m.g.)	Dip	Depth (m)	Azimuth (° m.g.)	Dip	N.A.					
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0.0	72.7	Interbedded Shale-Siltstone-Greywacke Thinly to thickly interbedded shale-siltstone, and greywacke. Some lithic-rich parts of greywacke with shale, felsic and siliceous lithics. Numerous thin carbonate veins 11.4-11.7 Strongly carbonate veined, adjacent to: 11.7-12.0 Quartz vein - fault? 16.6-20.2 Mainly greywacke to lithic wacke 42.7-55.4 Mainly greywacke, minor shale 55.4-57.6 Slumped and/or folded shale/siltstone 57.6-64.5 Mainly greywacke At 72.7m Sharp, broken contact	CORE ANGLES Facings: Class I = excellent II = good III = poor - needs other data <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>M.</th> <th>LCA</th> <th>Type</th> <th>M.</th> <th>LCA</th> <th>Type</th> </tr> </thead> <tbody> <tr><td>5.5</td><td>47</td><td>B</td><td>101</td><td>61</td><td>B</td></tr> <tr><td>Graded DH facing II</td><td></td><td></td><td>101.8</td><td>63</td><td>B</td></tr> <tr><td>8.9</td><td>46</td><td>B</td><td>106.5</td><td>57</td><td>B</td></tr> <tr><td>Graded DH facings I, I</td><td></td><td></td><td>Flame DH facing II</td><td></td><td></td></tr> <tr><td>10.3</td><td>44</td><td>B</td><td>109.7</td><td>56</td><td>B</td></tr> <tr><td>15.5</td><td>48</td><td>B</td><td>Graded DH facing II, II</td><td></td><td></td></tr> <tr><td>19.4</td><td>54</td><td>B</td><td>111.6</td><td>62</td><td>B</td></tr> <tr><td>Scour DH grading I</td><td></td><td></td><td>117.3</td><td>60</td><td>B</td></tr> <tr><td>25.3</td><td>45</td><td>B</td><td>126.2</td><td>67</td><td>B</td></tr> <tr><td>34.2</td><td>48</td><td>B</td><td>160.0</td><td>25</td><td>B/C?</td></tr> <tr><td>34.5</td><td>-</td><td>-</td><td>191.1</td><td>36</td><td>Shr</td></tr> <tr><td>Flame DH facing I</td><td></td><td></td><td>234.5</td><td>40</td><td>B</td></tr> <tr><td>37.8</td><td>42</td><td>B</td><td>237.2</td><td>21</td><td>B</td></tr> <tr><td>Scour DH facing I</td><td></td><td></td><td>238.3</td><td>20</td><td>B</td></tr> <tr><td>39.5</td><td>50</td><td>B</td><td>238.6</td><td>22</td><td>B</td></tr> <tr><td>54.0</td><td>42</td><td>B</td><td>247.2</td><td>38</td><td>C</td></tr> <tr><td>Graded DH facing II</td><td></td><td></td><td>248</td><td>47</td><td>C</td></tr> <tr><td>56.5</td><td>29</td><td>B</td><td>250.7</td><td>42</td><td>C</td></tr> <tr><td>62.3</td><td>55</td><td>B</td><td>253.9</td><td>45</td><td>Shr (fuchsitic)</td></tr> <tr><td>66.5</td><td>50</td><td>B</td><td>259</td><td>44</td><td>Shr</td></tr> <tr><td>70.3</td><td>57</td><td>B</td><td>290.5</td><td>25</td><td>B</td></tr> <tr><td>Scour DH facing I</td><td></td><td></td><td>291.4</td><td>23</td><td>B</td></tr> <tr><td>73.8</td><td>37</td><td>B</td><td>320.2</td><td>32</td><td>B</td></tr> <tr><td>75.5</td><td>36</td><td>B</td><td>337</td><td>31</td><td>B</td></tr> <tr><td>78.1</td><td>43</td><td>B</td><td>339.1</td><td>41</td><td>B</td></tr> <tr><td>Flame DH Facing I</td><td></td><td></td><td>348</td><td>58</td><td>B</td></tr> <tr><td>89.2</td><td>30</td><td>B</td><td>354.9</td><td>30</td><td>B</td></tr> <tr><td>93.2</td><td>42</td><td>B</td><td>356.5</td><td>0.8</td><td>B</td></tr> <tr><td>96.7</td><td></td><td></td><td>358.2</td><td>37</td><td>B</td></tr> <tr><td>Flame DH facing II</td><td></td><td></td><td>362.6</td><td>22</td><td>B</td></tr> <tr><td></td><td></td><td></td><td>384.7</td><td>33</td><td>B</td></tr> <tr><td></td><td></td><td></td><td>393.0</td><td>47</td><td>B</td></tr> </tbody> </table> <p>At 136.5 trace gn in carbonate vein-breccia At 141.0 2mm cb vein with gn, sp parallel to core At 141.7 pyritic vein-breccia</p>				M.	LCA	Type	M.	LCA	Type	5.5	47	B	101	61	B	Graded DH facing II			101.8	63	B	8.9	46	B	106.5	57	B	Graded DH facings I, I			Flame DH facing II			10.3	44	B	109.7	56	B	15.5	48	B	Graded DH facing II, II			19.4	54	B	111.6	62	B	Scour DH grading I			117.3	60	B	25.3	45	B	126.2	67	B	34.2	48	B	160.0	25	B/C?	34.5	-	-	191.1	36	Shr	Flame DH facing I			234.5	40	B	37.8	42	B	237.2	21	B	Scour DH facing I			238.3	20	B	39.5	50	B	238.6	22	B	54.0	42	B	247.2	38	C	Graded DH facing II			248	47	C	56.5	29	B	250.7	42	C	62.3	55	B	253.9	45	Shr (fuchsitic)	66.5	50	B	259	44	Shr	70.3	57	B	290.5	25	B	Scour DH facing I			291.4	23	B	73.8	37	B	320.2	32	B	75.5	36	B	337	31	B	78.1	43	B	339.1	41	B	Flame DH Facing I			348	58	B	89.2	30	B	354.9	30	B	93.2	42	B	356.5	0.8	B	96.7			358.2	37	B	Flame DH facing II			362.6	22	B				384.7	33	B				393.0	47	B		
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72.7	94.5	Sandstone Pale grey, fg siliceous sandstone to quartzite, of quartz and occasional slate grains, varying to fine siliceous siltstone or pelitic ash which is hard, fractured and sometimes laminated/contorted. 89.2-89.4 Shale band 90-90.3 Disrupted shale band																																																																																																																																																																																																												
94.5	118.8	Interbedded Shale-Siltstone-Greywacke Laminated shale-siltstone, with greywacke or sandstone beds to 1m. Minor carbonate veins At 99.5 - Breccia of shale fragments in sandstone, carbonate-veined 103.5-118.8 Mainly shale-siltstone, minor thin (1-2cm) sandstone bands At 110.5m Small pug zone (117.5-117.8 and 118.4-118.6 Broken)																																																																																																																																																																																																												
118.8	132.6	Lithic Wacke and Sandstone 118.8-125.6 Massive, mg (1cm) lithic wacke of packed felsic, shale, pelitic ash fragments, rounded quartz crystals/lithics. Few sandstone bands. 125.6-126.4 Disrupted shale bands or fragments and lithic wackes 126.4-132.6 Grey, fg massive, unbedded sandstone of quartz and occasional shale/slate grains.																																																																																																																																																																																																												
132.6	133.5	Fault Breccia Siliceous fragments (1cm) in contorted soft black slaty matrix.																																																																																																																																																																																																												
133.5	144.5	Rhyolite Lava Green in pale grey, massive mg lava/intrusive of sedicitised feldspar in siliceous, quartz-veined matrix. Thin breccia zones: 133.5-135.7 Carbonate veined and fractured 136.2-136.7 Carbonate veined and fractured 138.6-138.7 Breccia, carbonate veined 141.6-141.8 Pyritic vein-breccia																																																																																																																																																																																																												

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From	To			Run	Short
144.5	181.0	<p>Shale-Rhyolite Breccia Silicified, quartz-veined, sericitised feldspar-bearing rhyolite matrix, variably brecciated with two types - yellow/green, banded sericitic tuff/lava with partially absorbed siliceous crystals/fragments (=chilled phase of lava?), and banding breccia of packed siliceous (?porphyry) fragments in silicified slaty matrix.</p> <p>150.4-151.4 Siliceous, QFP, pumice-like sericite, shale-siltstone and few sandstone fragments in siliceous matrix. One black slate fragment (5cm) with ?fuchsite rim.</p> <p>At 151.4 Breccia/conglomerate seen to thin into crevice in rhyolite, surrounded by ?chilled sericitic phase 151.4-151.7</p> <p>151.7-154.8 Rounded to angular siliceous (?autolithic) and minor siltstone, flammate sericitic/felsic (?chilled), fragments in siliceous ?rhyolite matrix.</p> <p>154.8-157.8 Green-yellow, banded, pumice-like welded tuff or chilled lava?, few felsic and rhyolitic fragments in places. Quartz veins.</p> <p>157.8-158.7 Breccia of coarse siliceous and shale-siltstone fragments in siliceous matrix</p> <p>158.7-162.0 Tuffaceous appearance-various siliceous, felsic and pumice-like fragments in banded sericitic/felsic matrix. Few quartz veins. May be chilled lava variant</p> <p>162.0-165.8 Breccia of coarse QP, siliceous, sericitic, shale-siltstone fragments in siliceous matrix. Matrix shaley and pyritic towards end. Silicified and quartz-veined.</p> <p>165.8-167.6 Mainly rhyolite lava/intrusive</p> <p>At 165.8 10cm sericitic ?chilled phase</p> <p>165.8-166.2 Brecciated, silicified rhyolite, minor shale in fractures/matrix</p> <p>166.2-167.6 Rhyolite with few quartz crystals in silicified, quartz veined matrix.</p> <p>167.6-181.0 Brecciated, silicified rhyolite, sparse breccia framework of shale-siltstone filled fractures and bands. Banded, sericitic rhyolite phase often adjacent to thicker shale bands.</p> <p>180-180.2 Strong breccia-siliceous frags in pyritic, banded sericite matrix.</p> <p>At 181.0 Small shear zone.</p>	<p>Intepretation of relationships: Rhyolite erupted subaqueously; fractures, figures formed and filled with sparse to abundant shale and altered rhyolite lithics, dependent on size of fracture</p> <p>151.7-154.8 Minor py as diss and fracture-lining.</p> <p>165.2-165.8 Py 5% in matrix</p> <p>At 166.4 Trace gn in veinlet</p> <p>At 167.9 Minor py</p> <p>179.5-179.7 5% py in breccia matrix</p> <p>180-180.2 Breccia with 10% mg py</p> <p>180.2-181.0 Silicified, fractured, with minor py 2%</p>		
181.0	190.7	<p>Brecciated, Silicified Rhyolite Pale grey, brecciated, silicified rhyolite; no shale-breccia</p> <p>189.6-190.7 Sheared, brecciated fuchsite altered contact; remnant siliceous rhyolite fragments in fuchsite and carbonate matrix. Few mashed shaley-breccia bands</p>	<p>181-184.6 Pyrite fracture/veinwork (2-3%) several pyritic shear zones at 182.0</p> <p>184.6-186.6 Minor py in carbonate vein-breccia</p> <p>186.6-187.0 10% py in breccia</p> <p>187-189.6 Local py 1-2%, minor sp-cb veinlets esp 188.7-189.0</p>		
190.7	213.7	<p>Shale-Rhyolite Breccia 190.7-191.2 Strongly carbonate veined/brecciated silicified rhyolite. Several thin shears.</p> <p>191.2-213.7 Complex breccia of rhyolite mixed with banded, sericitic phase itself with siliceous rhyolite fragments, and variably brecciated by shale-bred fractures, bands. Some bands tending to conglomerate of siliceous fragments in shale matrix (e.g. 204.4) Pyritic shale band 194-194.5m</p> <p>At 213.7 1cm strong shear at contact.</p>	<p>190.7-191.2 Minor py in fractures, shears</p> <p>191.2-213.7 Often 1-2% py in shaley breccia matrix Shale 194-194.5 with 10% py</p>		
213.7	215.0	<p>Fault Breccia Breccia of dolomite and shale fragments, in recrystallised/veined carbonate matrix. Becomes fuchsitic towards end.</p>	<p>214.0-214.3 0.5-1cm sp-gn veins (anastomosing)</p>		

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DEPTH		ROCK DESCRIPTION	MINERALISATION	CORE REC'D	
From	To			Run	Short
215.0	226.5	<p>Sedimentary Breccia Various angular to rounded, fine to coarse fragments (usually siliceous, rhyolite) in shale-siltstone matrix. Strongly quartz veined, carbonate veined.</p> <p>215-215.7 Smearcd, disrupted pyritic black slate 215.7-215.8 Conglomerate, of dolomitic lithics smearcd in sparse shaley matrix. 215.8-216.1 Felsic tuff or lava (fragment?) carbonate veined and altered 216.1-216.2 Siliceous lithics in dolomitic matrix 216.2-216.6 Shale-siltstone disrupted by carbonate veining 216.6-217.3 Sandstone 217.3-223.5 Conglomerate/breccia, of various lithics usually siliceous, feldspar-porphry, shale-siltstone, in shale-siltstone or lithic wacke (with mg frags as above) matrix. Large rhyolite ?fragment 218.5-218.8 223.5-224.8 Packed, f-cg (5cm+) scalloped lithics in sparse shale matrix. 224.8-226.5 packed m-cg (1cm) lithics-siliceous rhyolite, almost no matrix. At 226.5 Sharp contact</p>	<p>215-215.7 5% fg py</p> <p>217.3-223.5 Dis fg py 1%</p>		
226.5	233.1	<p>Rhyolite 233.1-233.8 Initially abundant cg rhyolite and siliceous fragments, and f-mg angular similar lithics, in shale matrix. 233.8-239.0 Interbedded shale-siltstone with bands of lithic wacke with f-mg siliceous lithics. Strongly quartz veined 239.-241.8 Reverts to breccia of abundant coarse angular to scalloped siliceous, rhyolite, porphyry, altered tuff/lava (carbonatised, sericitised) few shale fragments, in shaley matrix with fine to m.g. fragments of smae 241.8-243.0 Becomes strongly cleaved, boundinaged, with smearcd and broken, altered fragments.</p>	<p>233.8-239.0 Diss v. fg py 1-2%</p>		
243.0	250.7	<p>Fuchsite and Rhyolite 243-243.05 Breccia of quartz with fine carbonate veinwork as matrix. 243.05-243.45 Siliceous breccia 243.45-245.2 Breccia of fuchsite and silicified felsic ?rhyolite 245.2-247.5 Sheared, weakly sericitised rhyolite with open carbonate veinwork. Sheared conglomerate and slate band at 246.6-246.7 247.5-250.7 Alternating bands of massive fuchsite with either breccia of fuchsite fragments in sheared altered, carbonate-veined ?rhyolite. At 250.7 cleaved contact</p>	<p>243.05-243.45 Sparse, open network of sp? veinlets and fractures 1% sp. 243.45-243.6 Dis py 5% 245.2-247.5 Dis py 1-2%</p>		
250.7	255.25	<p>Conglomerate and Sandstone 250.7-252.6 Conglomerated of abundant, packed coarse rounded to angular various lithics - sandstone, shale, siltstone, siliceous, rhyolite. 252.6-253.0 Breccia mainly of autolithie sandstone, and some siliceous fragments in anastomosing sericite breccia matrix. 253.0-254.4 Coarse sandstone of quartz and minor shale grains At 254.4 Sheared contact 254.4-254.5 Breccia of siliceous fragments in fuchsite-carbonate matrix, minor py 254.5-254.7 Conglomerate, as above 254.7-255.25 Brecciated conglomerate, coarse breccia of sandstone and rhyolite bands or fragments, then various lithics in fuchsite-carbonate matrix. Strongly quartz- and carbonate-veined.</p>			
255.25	260.3	<p>Fuchsite and Rhyolite Lithic Tuff 255.25-256.4 Lithic tuff initially of cg; then f-mg shale, felsic and siliceous clasts and grains in tuffaceous felsic matrix. 256.4-256.7 Fuchsite-carbonate breccia, minor pyrite 256.7-259.0 Fuchsite-carbonate breccia; disrupted siltstone lithics at 257.0.</p>	<p>256.9-259.0 Irregular bands & dis py to 5%</p>		

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		Sheared contact at 259.0			
	259.0-260.3	Felsic lithic tuff; initially cg then f-mg shale, siltstone, felsic rare py lithics; occasional sericitised feldspar, in felsic matrix			
260.3	267.2	Fuchsite-Carbonate Breccia Breccia of massive fuchsite and carbonate veins and patches, and bands of strongly altered (silicified) brecciated rock. Odd 'graphic' texture in fuchsite 265.5-265.8 At 267.2 Sharp, but irregular contact	260.3-267.2 Irregular bands and dis py; variable 1-5%		
267.2	286.3	Shale-Black Slate Mainly shale-slate with dolomitic bands 267.2-269.5 Strong breccia of variable shale siltstone fragments in dolomitic matrix. Minor laminated shale-siltstone. Secondary breccia of carbonate veins. 269.5-269.7 Black slate, intensely carbonate veined. 269.97-269.9 Massive fuchsite, irregular contacts 269.9-273.7 Shale to black slate, intensely carbonate veined network; locally strongly pyritic 273.7-274.5 Breccia of sediment fragments in dolomitic matrix; carbonate veined 274.5-286.3 Shale and black slate, intensely carbonate veined to breccia network. Numerous pyritic bands 282.0-282.7 Semi-massive fg pyrite	269.9-273.7 Py-rich bands (5% py) at 270.6, 273, 273.5-273.7 274.5-286.3 fg py bnds 10% including; 282-282.7 Fg py 20%, with vein(?) of pods of coarse carbonate and sphalerite, in fine galena-pyrite matrix. Recrystallised carbonate at contacts; 282.4-282.5.		
286.3	291.5	Dolomite 286.3-288.2 Cream to grey, massive dolomite and dolomitic breccia of dolomite, carbonate and siliceous fragments in dolomitic matrix 288.2-290.35 Dolomitic breccia/conglomerate. Various fine to coarse, rounded to angular fragments (dolomite, dolomitic wacke, shale, sandstone) in dolomitic matrix 290.35-291.5 Laminated shale to dolomite and dolomitic siltstone; few wacke bands			
291.5	315.1	?Diagenetic Carbonate in Slate Abundant carbonate as acicular crystals, irregular masses intergrown in shale/slate, fine banded veinworks to stockwork, in a shale/slate matrix. Crystals of dolomite? or siderite. Sparse secondary calcite veining. Diagenetic or ?evaporite origin. 291.5-292.5 Black slate with disrupted sandstone beds, intensely carbonate veined. 292.5-293.2 Black slate, carbonate veined At 315.1 carbonate veins at contact			
315.1	332.4	Dolomite Massive, grey, dolomitic wacke, with shale-siltstone and cream dolomitic bands; often disrupted to brecciated. 330.6-332.8 Several shale beds, with irregular patches dolomite.			
332.4	344.5	Interbedded Shale - Dolomitic Siltstone Locally disrupted shale-siltstone, with dolomitic siltstone beds, minor dolomitic wacke. Minor carbonate veins.			
344.5	382.8	Shale-Siltstone Mainly black slate, minor siltstone and dolomitic wacke to sandstone or greywacke. Strongly carbonate veined throughout. 353-354.2 Greywacke veined contacts. 354.5-355.2 Greywacke, veined contacts	345.7-347.0 Laminated fg py 10%		

017

961019

DIAMOND DRILL CORE RECORD

DEPTH		ROCK DESCRIPTION	MINERALISATION	CORE REC'D	
From	To			Run	Short
		362.8-366.1 Pyritic siltstone 366.1-368.6 Weakly brecciated black slate 368.6-376.6 Weakly brecciated siltstone 376.6-382.8 Strongly brecciated siltstone, now jigsaw of siltstone fragments with black slate veinwork matrix.	362.8-366.1 Fg py 10% 366.1-368.6 Variable py 1-5% 368.6-376.6 Fg py 5%		
383.8	397.8	Dolomite Cream massive dolomite and dolomitic wacke, minor shale-siltstone bands. Bedded in places but usually disrupted.			018
397.8	415.5	Brecciated Shale-Siltstone Strongly brecciated shale-siltstone, with dolomitic and greywacke bands. Locally strongly carbonate veined. 409.2-411.7 Dolomitic wacke			
	415.5	END OF HOLE			

ELECTROLYTIC ZINC COMPANY OF ASIA LTD.
MINERAL RESOURCES DIVISION - TASMANIA

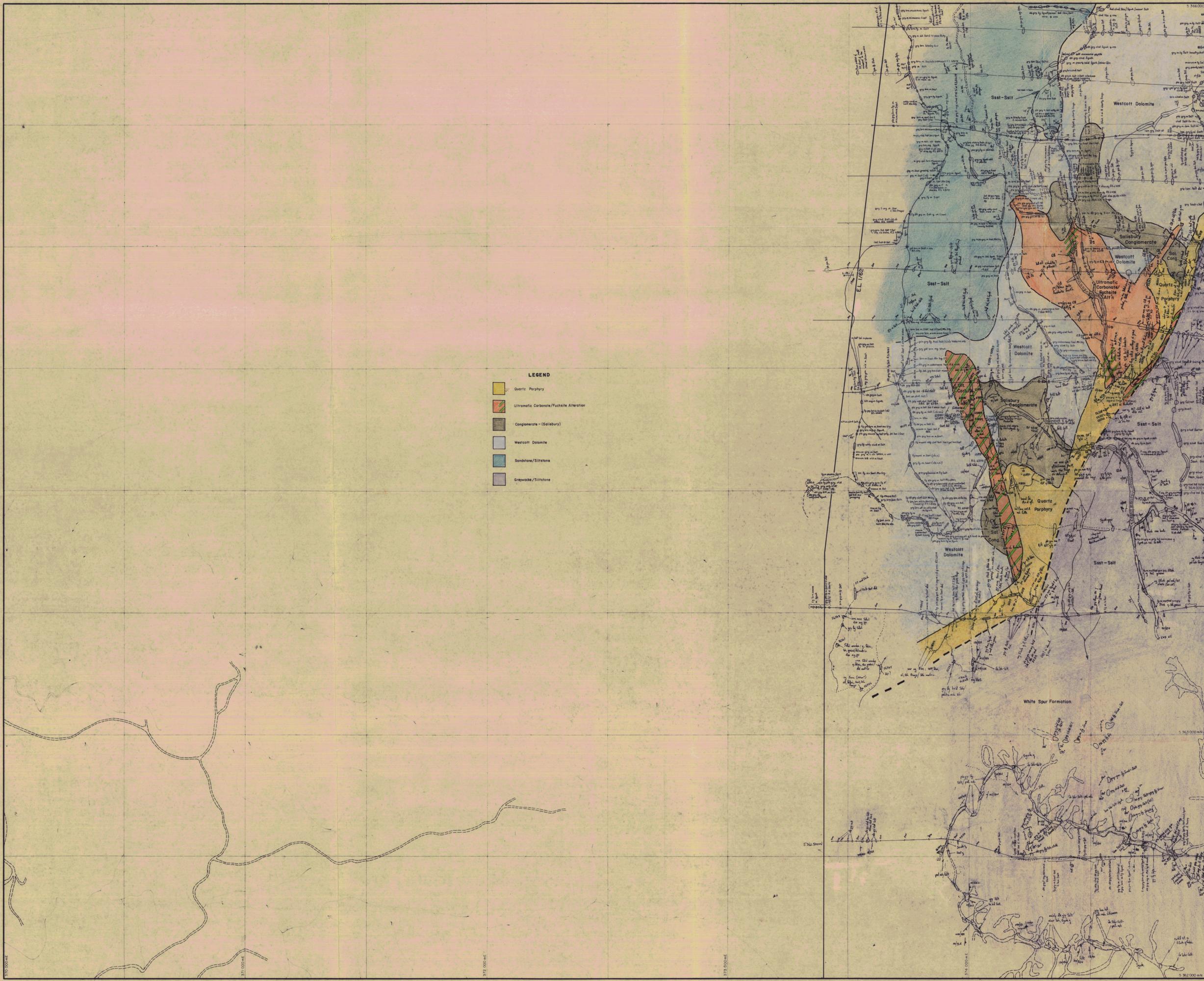
DIAMOND DRILL CORE GEOCHEMICAL ANALYSES RECORD

HOLE No. Moorea Pimple
SHEET No. 1

LABORATORY						ANALYSIS										GRID CO-ORDS:				
ANALYTICAL TECHNIQUE						101	101	101	101	309	114	120	402	401					A.M.G. CO-ORDS	Approx 5 364 110N
DETECTION LIMIT						5	5	5	0.5	0.008	1	5	3	10					COLLAR R.L.: 374 655E	
Sample No.	Sample Type	From	To	Core Rec'd	Sample Length	METAL CONTENT (ppm unless specified)										COMMENTS				
						Pb	Zn	Cu	Ag g/t	Au g/t	As	Ba	Sr	W						
MINES DEPARTMENT SAMPLE NO'S																				
100901		135.0	140.0		5.0	35	60	5	0.5	X	9	100	10	X				X - Less than Detection		
902		140.0	145.0		5.0	1500	1250	20	2.5	X	7	105	6	X						
903		145.0	150.0		5.0	30	110	10	0.5	X	4	115	X	X						
904		150.0	155.0		5.0	10	20	10	0.5	X	6	155	X	X						
905		155.0	160.0		5.0	20	45	10	X	X	7	195	X	X						
906		160.0	165.0		5.0	15	20	5	X	X	5	115	3	X						
907		165.0	170.0		5.0	150	135	5	X	X	7	95	3	20						
908		170.0	175.0		5.0	15	30	10	X	X	6	85	6	X						
909		175.0	180.0		5.0	20	30	25	1.0	X	20	105	3	X						
100910		180.0	185.0		5.0	1000	4850	205	2.5	X	49	80	3	X						
911		185.0	190.0		5.0	440	2450	5	0.5	X	52	70	4	X						
912		190.0	195.0		5.0	160	265	130	1.5	X	170	120	15	X						
913		195.0	200.0		5.0	580	335	25	1.0	X	10	125	10	X						
914		200.0	205.0		5.0	90	295	65	0.5	X	5	85	X	X						
915		205.0	210.0		5.0	100	90	135	2.0	X	13	170	5	15						
916		210.0	215.0		5.0	1950	4050	380	4.0	X	34	170	X	X						
917		215.0	220.0		5.0	20	40	30	X	X	17	155	7	20						
918		220.0	225.0		5.0	55	90	105	X	X	12	170	10	X						
919		225.0	230.0		5.0	50	80	20	X	X	8	125	8	X						
100920		230.0	235.0		5.0	35	155	10	X	X	10	165	X	X						
921		235.0	240.0		5.0	20	60	15	0.5	X	11	225	6	X						
922		240.0	245.0		5.0	55	160	10	0.5	X	75	180	4	15						
923		245.0	250.0		5.0	45	75	5	X	X	21	140	9	X						
924		250.0	255.0		5.0	2800	570	50	8.0	X	56	135	15	X						
925		255.0	260.0		5.0	2400	2500	55	6.0	X	280	135	20	X						
926		260.0	265.0		5.0	595	120	70	1.5	X	430	115	5	X						
927		265.0	270.0		5.0	30	85	110	1.5	0.008	150	135	7	15						
928		270.0	275.0		5.0	265	160	135	3.5	0.008	120	140	15	X						
229		275.0	280.0		5.0	60	80	250	2.5	X	100	125	4	15						
100930		280.0	285.0		5.0	3550	1850	115	14.5	0.008	210	95	35	X						

01c

961021



LEGEND

- Quartz Porphyry
- Ultramafic Carbonate/Fuchsite Alteration
- Conglomerate (Solisbury)
- Westcott Dolomite
- Sandstone/Siltstone
- Greywacke/Siltstone

5. Igneous Rock Classification

- IA Acid tuff
- IA Acid Lava
- IA Minor Acid Intrusives
- IA Major Acid Intrusives
- II Intermediate tuff
- II Intermediate lava
- II Minor Intermediate Intrusives
- DI Major Intermediate Intrusives
- MV Mafic Volcanics
- IM Minor Mafic Intrusives - dolerite d
- GB Major Mafic Intrusives
- U Ultramafic Rocks

6. Sedimentary Rock Classification

- VS Volcaniclastic Sediments
- Sv Volcanogenic Sediments
- Srd Rudites
- Scon Conglomerate
- Sbr Breccia (sedimentary)
- Sst Siltite
- Sar arenites
- Sar < 15% matrix
- Sar > 15% matrix
- Ssqw Sandstones
- Ssqw wackes
- Ssqw greywacke
- Ssqw > 15% matrix
- Ssil Siltstone
- Ssl Shale
- Sls Black shale
- Argillites
- Limestone
- Chert
- Dolomite
- Iron formation
- Evaporite
- Sgl Glacial deposits
- Sstg Fluvioglacial
- Salv Alluvium

7. Undifferentiated Metamorphic Rocks

8. Silicates

- q quartz
- pl feldspar
- ab albite
- px pyroxene
- bi biotite
- ch chlorite
- ser sericite
- ep epidote
- tour tourmaline
- gn garnet
- h hornblende
- so soapstone
- py pyrite
- po pyrrhotite
- ars arsenopyrite
- Min Mn-oxides
- Fe Fe-oxides
- tet tetrahedrite
- cas cassiterite

9. Carbonates

- cb carbonate
- ac calcite
- do dolomite
- rh rhodochrosite
- ba barite
- fl fluorsite
- sch schistite
- Au gold
- ix Leucocene

10. Textures

- lava
- at anditic tuff
- cr crystal tuff
- vt vitric tuff
- lap lapilli tuff
- ag agglomerate
- san san flow
- ash ash fall
- bre breccia
- qz/frag quartz
- eyes eyes augen
- bd bedded
- sch schistose
- bm bombs
- pm pumice
- flm flame (length cm)
- por porphyritic
- ves vesicular
- sch schaeulitic
- weld welded
- rev reworked
- fr fragments
- cl clasts
- band banded
- flow flow
- bnd banded
- flow flow
- traced
- veins
- cross-bedded
- thick-bedded
- thin-bedded
- inter-bedded
- lam laminated
- brecciated
- stg staining

11. Alteration

- ab abraded
- cb carbonated
- ch chloritized
- sc sericitized
- kd kaolinitized
- ep epidotized
- sil silicified
- Min Mineralization
- dis (disseminated %)
- str stringer
- mas massive

12. Structure

- Fault
- Bedding
- Cleavage
- Joint
- Fracture
- Facing & Clans
- Unconformity
- Outcrop
- Interpreted boundary

14. Topographical Features

- Road
- Track, vehicle, foot
- Railway, tramway
- River, creek
- Waterfall
- Drill Hole
- Old mine, pit
- Sample Location
- Trig, spot heights
- Dump or scree

A	B	A	B
D	C	D	C
A	B	A	B
D	C	D	C
A	B	A	B
D	C	D	C
A	B	A	B
D	C	D	C
A	B	A	B
D	C	D	C
A	B	A	B
D	C	D	C

ELECTROLYTIC ZINC CO OF AASIA LTD
PROJECT: MT. BLACK E.L. 1/62 TAS.

961022 GEOLOGY

SCALE 1:5000 Survey R.J.W. Revised J.E.
Reference Date 31-3-1981 REF NO.
Drawn R.T. Checked

5980
E.T. PLAN CABINET TRIM LINE

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