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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

West Coast Mines

EXPLORATION LICENCE NO. 1/62 MT. BLACK

Progress Report on Exploration Activity
5th May, 1982 to 20th November, 1982.

Geology Department
Report No. 158MD

I.J. Mathison,
I.R. McDonald,
December, 1982.

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Preliminary copies only.

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LIST OF PLANS AND SECTIONS

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Plan No.	Scale	Title
A2-504-0016	1:50,000	Work Completed 5.5.'82 - 20.11.'82
A1-504-0178	Various	DCP 235
A0-504-0288	1: 1,000	Olympic-Athenic Mine Area - Ground Magnetics.
-0311	Various	CHP 238
-0312	"	CHP 236
-0314	"	CHP 237
-0310	1: 1,000	Olympic-Athenic Mine Area - Sampling & Drill Hole Locations.
-0213	1: 5,000	Line Profile 5,370,900mN
-0281	"	Ring River Grid -Iron Soil Geochemistry
-0282	"	-Chromium Soil Geochemistry
-0283	"	-Tin Soil Geochemistry
-0284	"	-Copper Soil Geochemistry
-0285	"	-Lead Soil Geochemistry
-0286	"	-Arsenic Soil Geochemistry
-0287	"	-Zinc Soil Geochemistry
-0267	"	Ring River Grid - Ground Magnetics
-0269	"	- V.L.F. Smoothed Dip Contours
-0313	"	- Anomalies
-0044	"	Geology Outcrop Plan Sheet 7D
-0043	"	Sheet 9A
-0124	"	Sheet 9D
-0173	"	Sheet 11A
-0117	"	Sheet 28C
-0290	"	Sheet 30B
-0172	"	Sheet 30C
-0174	"	Sheet 32B
PLATE 1	1:10,000	An Interpretation of the Geology in the Natone Area
PLATE 2	1:10,000	East-West Sections of the Geology in the Natone Area North Sheet
PLATE 3	"	East-West Sections of the Geology in the Natone Area South Sheet

1. INTRODUCTION

This report covers work on Exploration Licence No. 1/62 by Electrolytic Zinc Company of Australasia Limited between 5th May and 20th November, 1982.

The work carried out on behalf of a Joint Venture between E.Z. and Getty Oil Development Co. Ltd., which was initiated in April, 1978. A description of the Licence and its history of tenure can be found in E.Z. Report No. 131 - "E.L. 1/62 Work Undertaken to 30th June, 1979".

2. PREVIOUS EXPLORATION

E.Z. Report No. 134 - "E.L. 1/62 Work Undertaken 30th June, 1979 to 30th June, 1980" - in addition to detailing all activities carried out during 1979/80, also contains a detailed reference to all previous exploration undertaken since the granting of the E.L.

E.Z. Reports No's 142 (1981), 144 (1981) and 148 (1982) covers subsequent exploration to the commencement of this report.

3. ABBREVIATIONS

Standard symbols and terminology used on geological plans and sections are detailed on Plate 1 of E.Z. Report No. 142 - "Progress Report on Activity July, 1980 to June, 1981".

4. EXPLORATION UNDERTAKEN 5TH MAY, 1982 TO 20TH NOVEMBER, 1982
(Refer to Plan A2-504-0016 "Work Completed 5.5.'82 - 20.11.'82")

4.1. West Murchison

4.1.1. Work Completed

Cutting of the small detail grid over the West Murchison soil anomaly commenced. Progress has been slow due to the very steep slopes in the area and to the lack of access. The grid can only be reached after an approximate one and a half hours walk from the nearest vehicle access.

At the close of the reporting period 2.1km of a total 4.8km cutting had been completed. The 600m baseline had been pegged.

4.2. Dobsons Creek

4.2.1. Work Completed

Grind and split core sampling of DDH DCP 235, which was commenced in the last period was completed in this period. Samples were sent to Analabs and analysed for Cu, Pb, Zn, Ag, Fe and Mn by A.A.S. after leaching by nitric-perchloric acid.

4.2.2. Results Received (Refer to Appendices C & D & plan A1-504-0178)
The assay results reported are generally low but there are sufficient samples of elevated Pb and Zn to account for the original soil anomaly which peaked at 1,500 ppm Pb and 525 ppm Zn. The highest assay reported is:-
67.0 - 67.7m 0.7m at 1.45% Pb, 2.20% Zn, 11 ppm Ag; from a fault zone with poor core recovery of broken siltstone and quartz and carbonate veins.

Pyritic and carbonate veined dark grey siltstones reported the following assay:
52.80 - 57.0m 4.2m at 2,157 ppm Pb, 2,350 ppm Zn.
The thin section from 61.0m describes post-cleavage sphalerite films and veinlets. Similar mineralisation probably accounts for the above assay values. It would appear that all the Pb, Zn mineralisation encountered is secondary shear-located sulphides.

Thin section descriptions of selected drill core samples were also received from C.M.S.

The thin section taken from the black siltstone at 61.0m confirmed that the black colour is at least in part due to carbonaceous material. This enhances the interpretation of the original gradient array I.P. anomaly as being due to pyritic and graphitic sediments. The remaining thin section descriptions are consistant with the drill hole log. They suggest a sequence grading upwards from welded ash-flow tuffs of dacite composition into welded ash-flow of sodic rhyolite composition. These are overlain by a felsic volcanic ash indicating the advent of sub-aqueous conditions and a waning of volcanic activity. This in turn is overlain by fine grained pelitic sediments. There is no pervasive albitisation and sericitisation of the footwall. Calcic assemblages such as epidote and calcite are reported from the footwall rocks.

A pink colouration in some of the ash-flow unit, which was tentatively logged as K-feldspar alteration, was shown on thin section examination to be a primary iron pigmentation of the glassy matrix.

4.3. Colebrook Hill

4.3.1. Work Completed

During the past six months most work on the Colebrook Hill area was directed towards the detailed interpretation of magnetic anomalies in favourable geological environments. These interpretations supported by other geophysical, geological and geochemical information provided the basis for the proposal of drilling targets. Where necessary to adequately cover anomalous areas, infill lines or short line extensions were cut, mapped and surveyed

Late in the reporting period a programme of line extensions was instigated to cover a zone of Dighem anomalies east of the Golf Course. Field work here is still in progress.

Petrography:

Thirteen unweathered rock samples were collected from the Colebrook Mine area and submitted for petrography.

Geophysics - Magnetics:

A small ground magnetometer survey was completed in the Olympic-Athenic area. Anomalies defined by this survey and an anomaly in the Colebrook Mine area were the subjects of detailed interpretations.

Drilling:

Four drilling targets were proposed using magnetic interpretations supported by other geophysical, geochemical and geological information. These were:-

Hole 1 - A 450m drill hole to test for deep mineral zonation beneath the Colebrook Mine. This hole was not drilled.

Holes 2, 3 and 4 - Approximately 150m drill holes in the Olympic-Athenic area. Details are summarised below.

Drill Hole Summary Table

Hole No.	Azimuth (AMG)	Dip	Final Depth	Nature of Target	Anticipated Target Depth
CHP 236	290	48°	119m	Magnetic body.	60 - 90m
CHP 237	270	59°	122m	Magnetic body east of Serpentinites.	80 - 110m
CHP 238	090	45°	230m	Series of magnetic and conductive veins.	70 - 150m

Grind and split sampling of the core has commenced, magnetic susceptibility readings have been taken every 20cm and the core has been geologically logged. Hole CHP 237 was cased with 40mm PVC piping to 53m and hole CHP 238 was cased to 230m. Hole CHP 236 is probably still open to 119m because NQ casing was left in the rubbly upper part of this hole. Casing with PVC will be completed when material is available.

Geochemistry:

Comparative Sn assays using three different techniques were performed on selected samples from the Colebrook Mine area and on soil samples from Sn Anomaly 1.

Iron stained rocks exposed in the access tracks to the Olympic-Athenic drill sites were chip/channel sampled.

Geology:

Additional geological information has been obtained by mapping of infill lines, line extensions and drill access tracks and by logging of diamond drill holes.

4.3.2. Results Received

Ground Magnetometry: (Refer to plan A0-504-0288 "Olympic-Athenic Mine Area - Ground Magnetics")

Results from the infill lines and line extensions were plotted, together with existing data, at 1:1,000 scale. The closer spaced sampling and better survey control of the grid permitted better definition of the three most promising anomalies in the Olympic-Athenic area. These are:-

Olympic-Athenic Anomaly 1 - a well defined anomaly peaking 2,000nT above background and situated close to known tin mineralisation in the Athenic No. 2 workings.

Olympic-Athenic Anomaly 3 - a very high contrast anomaly $\pm$5,000nT above background occurring east of the mapped ultramafic belt and apparently separated from the main ultramafic anomaly. This anomaly also is close to reported tin mineralisation in the Olympic 3A workings.

Olympic-Athenic Anomaly 2 - a less well defined, low contrast anomaly $\pm$700nT above background in the north eastern corner of the sheet.

Magnetic Interpretation: (See Appendix A - "Magnetic Interpretations - Colebrook Hill Grid Area")

The Colebrook Mine anomaly, the Olympic-Athenic Anomaly 1 and the Olympic-Athenic Anomaly 2 have been examined in detail while others have been subjected to more cursory examination.

The Colebrook Mine Anomaly was first examined by Dr. J. Bishop. (Bishop, 1980 and Appendix A - 1). He used aeromagnetic data or intensely filtered data as the basis for simple 2D modelling techniques. He interpreted a wide, deep magnetic dyke with some thinner near surface features as the possible source of his profiles.

This interpretation was superceded by a detailed examination of the ground magnetic data by R. Richardson (Appendix A - 2). He found that:

"The aeromagnetic anomaly over Colebrook Hill represents no more than the combined magnetic effect of an area of narrow pyrrhotite veins, the anomalies of which add together to produce a relatively broad and isolated anomaly at flying height." He interpreted "a large number of thin magnetic sources which extend from near surface to probably considerable depth".

The Olympic-Athenic Anomaly 1 was also examined by R. Richardson who stated, "The anomaly is interpreted as being due to a thin (10-30m wide) and steeply dipping tabular or lensoid body. The top is approximately 10-20m below ground surface. Magnetic susceptibility is consistent with measured susceptibilities of pyrrhotite from previous drill holes (i.e. 0.003 - 0.01 cgs)"(see Appendix A - 2).

The Olympic-Athenic Anomaly 2 was interpreted by D. Leaman (see Appendix A - 3). He concluded:

"The magnetic anomalies observed ..... are related to a large number of small, relatively shallow sources which may be expected to be discontinuous along strike and in depth extend."

Drilling: (See Appendix C - Drill logs and plans A1-504-311; 312 and 314 - Preliminary versonsions of Summary Sheets)

Three of the four holes proposed were drilled. Available results are detailed in drilling logs and summary sheets.

The three diamond drill holes were targetted on magnetic anomalies in the Olympic-Athenic area. All three holes intersected magnetic bodies. Only in CHP 238, however, was the magnetism due to pyrrhotite. This drill hole also intersected significant carbonate horizons. Brief summary drill logs of all holes are outlined below.

CHP 236 - Brief Drill Log (Grid Co-Ords 5,370,845mN 374,895mE, Azimuth 290 AMG, Dip 48°, Target: Interpreted magnetic body 60-90m)

0 - 15m	Non core drilling.
15 - 26m	Oxidised volcanic wacke and siltstone.
26 - 46m	Interbedded volcanic wacke and siltstone with irregular quartz carbonate veining.
46 - 51m	Chloritised volcanic wacke and siltstone. Patches and veins of quartz-carbonate.
51 - 83m	Magnetic volcanic arenite and siltstone. Irregular quartz chlorite and chlorite veinlets. Minor sulphides associated with quartz chlorite veinlets.
83 - 119m	Magnetic volcanic wacke and siltstone. Irregular quartz and quartz chlorite veins and veinlets.

End of Hole.

CHP 236 - Magnetic Susceptibility

0 - 15m	Non magnetic.
51 - 119m	Average 8.0×10^{-3} cgs units

CHP 237 - Brief Drill Log (Grid Co-Ords 5,370,820mN 374,565mE, Azimuth 270 AMG, Dip 59°, Target: Magnetic body along eastern margin of serpentinites at 80-110m)

0 - 15m	Non core drilling.
32 - 47m	Altered and oxidised serpentinite - often yellow and brown clay. Patches of talc and talc carbonate alteration.
47 - 100m	Green serpentinite - often with veinlets of fibrous magnetite.
100 - 103m	Altered serpentinite - intruded by thin granitic dykes up to 1m thick.

103 - 113m		Altered, non magnetic, serpentinite.
113 - 122m		Green serpentinite with veinlets of fibrous magnetite.

End of Hole.

CHP 237 - Magnetic Susceptibility

The values frequently exceeded the range of the instrument.

CHP 238 - Brief Drill Log (Grid Co-Ords 5,371,020mN 374,975mE, Azimuth 090 AMG, Dip 45°, Target: Series of magnetic conductive veins from 70-150m)

0	-	12m	Non core drilling.
12	-	42.13m	Oxidised wacke and minor siltstone.
42.1	-	62.4m	Fine grained wacke and siltstone, intensely disrupted by irregular quartz carbonate veins in places. 5% disseminated pyrrhotite last 4m.
62.4	-	71.0m	Massive uniform chloritic rock with approximately 30% subhedral calcite crystals. Minor inclusions of siltstones and wacke. Rock may be an altered intrusive igneous rock or recrystallised homogeneous sediment.
71.0	-	86.5m	Lithic wacke, siltstone and mudstone-calcareous in places. Pyrrhotite as blebs, dissemination and veinlets makes up to 10% of rock.
86.5	-	88.5m	Dark grey altered ?basalt.
88.5	-	115.8m	Fine grained wacke, siltstone and mudstone with soft sediment slump features in places. Pyrrhotite as blebs, disseminated grains and veinlets averages 10% of rock.
115.8	-	171.0m	Volcanic wacke and siltstone with some slump features. Thin irregular carbonate veins common. 1m carbonate unit at 156m.
171.0	-	175.0m	Dark grey mudstone with thin limestone and lithic wacke beds. Patches of intense carbonate veining and replacement. ~20% pyrrhotite as replacements, veinlets and bedded dissemination.
175.0	-	186.2m	Pale grey stylolitic limestone. Up to 20% replacement and veinlet pyrrhotite over first and last metres.
186.2	-	187.0m	Contorted and brecciated mudstone with ~20% pyrrhotite in veins and replacements.
187.0	-	225.0m	Cyclic units of grey fine grained wacke grading to black shale with common thin pyritic beds - some replaced by pyrrhotite. Soft sediment brecciation and slumping occur in patches.
225.0	-	230.0m	Slumped fine grained wacke, siltstone and black shale.

End of Hole.

CHP 238 - Magnetic Susceptibility

0 - 50m	Non magnetic except for thin magnetic vein around 30m.
50 - 116m	Except for thin magnetite vein at 52.8m, susceptibility averages around 0.0005cgs units with readings up to 0.001cgs units common.
116 - 140m	Low susceptibility (<0.0002cgs units).
140 - 187m	Generally low with thin peaks at 141m (0.001cgs), 145 (0.001cgs) 155 (0.001cgs), 172 (0.004cgs), 178 (0.03cgs) and 187 (0.002cgs).
187 - 230m	Susceptibility ranges from 0.0001 to 0.0006cgs units except for thin peak for 0.0025 at 220m.

Geochemistry - Comparative Sn Assays:

Rock samples from the Colebrook Mine and soil samples from Sn anomaly 1 were reanalysed for Sn using different techniques. Techniques used and their identification in the following tables are:

Sn (X.R.F.)	Tin content detected by pressed powder X-ray fluorescence.
Sn (A.A.S.)	Tin content detected by A.A.S. following ammonium iodide volatolisation.
Sn (cx)	Tin content detected by A.A.S. following cold acid extraction.

These comparative assays are used to estimate the relative proportions of silicate phase tin, cassiterite or oxide phase tin and sulphide or hydroxide phase tin. Discussions with Analabs suggest that Sn (cx) detects only tin in the sulphide and hydroxide phase; Sn (A.A.S.) detects most of the cassiterite phase tin plus tin in the sulphide and hydroxide phase while Sn (X.R.F.) detects the total tin content.

Results from Colebrook Mine Area (see E.Z. report 148 Appendix A for details sample locations). These are rock chip samples:

Sample No.	Location (Colebrook Mine)	Sn (X.R.F.)	Sn (A.A.S.)	Sn (cx)
43693	B. trench	455	50	40
43679	E. Colebrook 5 Bench	615	44	30
43573	E. Colebrook 6	494	165	130
43674	E. Colebrook 5	221	51	30
42591	E. Colebrook 4	434	22	45
43656	E. Colebrook 3	697	270	150
43659	"	674	112	55
43967	E. Colebrook 2	608	270	215
43969	"	1100	485	290
43986	E. Colebrook 1	764	39	45
43987	"	586	19	45
43996	Summit Adit	610	95	30
43999	"	547	34	40
48698	Summit Trench	577	135	5
48699	"	579	155	5
43954	Road near W. Colebrook 1 & 2	720	245	150
43956	"	868	143	15
43965	"	946	47	5
43934	N. Colebrook	416	215	70
43942	"	811	150	15
43713	W. Colebrook O/cut	626	115	50
42738	"	757	75	25
42739	"	652	25	50
42740	"	932	18	45
42743	"	614	25	25
42746	"	1420	73	31
43722	W. Colebrook 2	693	30	40
43726	"	505	48	15
43645	W. Colebrook 5	719	320	75
43620	W. Colebrook 3	1090	560	345
43625	"	525	72	50

Results from Sn Anomaly 1 (see E.Z. report 148 Appendix F for precise locations). These are soil samples:

Sample No.	Sn (A.A.S.)	Sn (cx)
42701	275	125
42704	285	120
42706	244	95
42709	460	300
42710	225	90

Geochemistry - Chip and Channel Sampling of Roads: (see Plan A0-504-0310 & Appendix E - Sample Data Sheets)

Rock chip/channel samples were collected from three iron stained zones exposed in the access tracks to the Olympic-Athenic drill sites. Most samples represent approximately 2m of section. Sample locations have been marked on the accompanying map and analytical results have been entered on sample data sheets.

The northernmost sampled zone, Zone A, has since been further tested by drill hole CHP 238. Highest tin values from this zone is 885 ppm which is associated with elevated arsenic and tungsten values. Rocks sampled in this area are iron-stained volcanic wacke and siltstone.

The central sampled zone has since been tested by drill hole CHP 236. Most tin values are very low. The highest value of 227 ppm is quite isolated. Rocks sampled here are iron-stained arenites and wackes.

The southernmost sampled zone, Zone C, is an extension of the mineralisation encountered in the Athenic 2 Level adit and drive. Here sulphide veinlets carrying fine cassiterite have permeated the brecciated volcanic wackes and siltstone adjacent to one or two thin north westerly striking quartz-sulphide veins. Values of 1260 ppm Sn and 2030 ppm Sn indicate that this system is still strongly mineralised at the new road.

Petrography: (see C.M.S. Report 82/7/22 Appendix D - 1)
Thirteen "country rock" samples from the Colebrook Mine area were identified as contact-altered labile turbiditic sandstones and pelitic sediments. Their basic-intermediate volcanic frame-work components and conspicuous clastic opaques are typical of the labile turbidites of the Crimson Creek Formation. The pervasive Mg-metasomatism also resembles the alteration of Renison wall rocks.

One sample, 48242, which had been mapped as a limestone was petrologically identified as a calcitised labile psammite. There was insufficient variation in the degree of the contact metamorphic or of the metasomatic alteration. Consequently no zonation of metamorphism or of alteration can be defined.

Geology: (see Line Profile 5,370,900mN AO-504-0213)
New results are confined to the area west of 375,200mE, i.e. the western slope of Colebrook Ridge. In this area four main units may be defined. Generally the rocks strike a few degrees east of north and dip very steeply west. Facings determined are predominantly west. Easterly facings are rare and restricted to areas that have been disrupted by slumping and faulting.

Rocks intersected by CHP 238 were predominantly grey or dark grey lithic wackes, siltstones and shales which often contain thin beds of pyrite and bands of pyrrhotite. Limestone units ranging from a few cm to 12m thick are interbedded within the clastic sediments. Two thin basaltic or doleritic units which are possibly intrusive were also noted. Wackes of this unit are quartz poor, frequently contain mudstone or siltstone interclasts and contain little obvious volcanically derived material. Tentatively these rocks are ascribed to a transition unit between the Rosebery Group and the Crimson Creek Formation.

These are overlain by a series of green to dark greenish grey volcanic wackes and siltstone. These wackes are again quartz poor but contain clasts of obviously basic volcanic origin. Rocks of this unit are known from the collar of CHP 236 west to the ultramafic unit. They are believed to belong to the Crimson Creek Formation.

Sediments of the Crimson Creek Formation are separated from those of the younger Dundas Group to the west by a 100-200m wide belt of serpentinised ultramafics. Contacts between the serpentinites and the Crimson Creek Formation appear faulted. Thick zones of altered talcose serpentinite or quartz carbonate alteration follow this contact. In CHP 237 thin granitic? dykes intrude and apparently demagnetise the serpentinites.

The Dundas Group sediments west of the serpentinites outcrops poorly. Rocks noted in outcrop include greywacke conglomerate and grit, quartz lithic greywacke and laminated siltstone. These rocks strike north of northeast and dip and face steeply west.

4.4. Ring River Grid

4.4.1. Work Completed

Work during the last six months concentrated on the compilation of results from the 1981-82 field season. A small programme of infill gridding, soil sampling and ground magnetometry was completed over a large magnetic anomaly.

Geology:
J. Richardson's report on field mapping and rock chip identification was completed and geological fact maps and interpretations were draughted.

Geochemistry - Soil:
Contoured soil geochemistry plans were draughted. Results of soil sampling on the infill grid were added as they became available.

Geochemistry - Rock:
Several rock samples were submitted for geochemical analysis. The results have been used in identifying the background geochemical levels of various elements in specific rock units.

Geophysics - Magnetics:
Results of the infill magnetic survey were correlated with earlier surveys and added to the contoured ground magnetics map. Magnetic data on the Ring River Magnetic Anomaly were interpreted.

Geophysics - V.L.F.:
The northern part of the grid was surveyed using a borrowed Phoenix V.L.F. meter. Because this meter had to be returned and no other suitable meter was available, the survey was not completed.

Petrology:
Twelve rock samples collected during field mapping were submitted for thin section examination and identification.

Anomaly Classification:
Anomalies of all kinds were plotted on a base map and grouped according to either geographical proximity or known geology. The resultant composite anomalies were then classified according to size, geology, geochemical and geophysical responses and known mineralisation. This classification was used to determine further exploration and its priority.

4.4.2. Results Received

Geology: (see E.Z. Report 151 - Appendix H)

Richardson concludes: "The Ring River Grid area is underlain by Rosebery Group, Crimson Creek Formation, Primrose Pyroclastics and Curtain Davis Volcanics. Stratigraphy trends approximately north-south, folds about a north-south F_1 anticlinal fold axis and later refolded by an open F_2 folding event whose axis plunges at shallow angles to the west."

Richardson correlates the Rosebery Group with the Success Creek Group and interprets several fault sets.

Geochemistry: (see Appendix F Soil Sample Data Sheets)
Geochemical results were received in two groups. The first group include all samples from the initial 200m spaced grid. The second group included samples from 100m infill lines over the Ring River Magnetic Anomaly. Results from the first group were contoured. Contour intervals were chosen with the aid of cummulative frequency plots (Cu and Pb), by inspection (Fe, Cr, As) or to correspond with the Colebrook Hill Grid to the north (Zn)

Later results were added to the already contoured maps and contour boundaries were adjusted as required. Obviously contaminated samples from the Hercules Mine Haulage, Bakers Creek, the Ring River and the North-East Dundas Tramway were ignored.

Tin: (Plan AO-504-0283)
Results for tin are low. Most samples reported tin contents less than 1 ppm. No significant zones of anomalous tin could be defined. Except for a group of high, probably contaminated, samples from around the Hercules Mine change rooms, only two samples reported greater than 30 ppm Sn.

Lead: (Plan AO-504-0285)
A cumulative frequency plot of lead values provided the following results:

Background ($\bar{M}$)	=	50 ppm
$\bar{M}$ + 1S	=	140 ppm
$\bar{M}$ = 2S	=	450 ppm

A separate, possibly anomalous population appears above 300 ppm. Lead soil geochemical results were contoured at 150, 300, 500 and 1,000 ppm. Significant lead anomalies are described in the section "Anomaly Classification".

Copper: (Plan AO-504-0284)

Background ($\bar{M}$)	=	25 ppm
$\bar{M}$ + 1S	=	90 ppm
$\bar{M}$ + 2S	=	160 ppm

A separte, possibly anomalous population appears above 200 ppm. Copper results were contoured at 100, 200 and 400 ppm. Significant copper anomalies are described in the section "Anomaly Classification".

Zinc: (Plan AO-504-0287)
Zinc results were contoured at 250, 500 and 1,000 ppm. Significant zinc anomalies are discussed in the section "Anomaly Classification".

Arsenic: (Plan A0-504-0286)
Arsenic results were contoured at 50, 100 and 200 ppm. These levels are a factor of 10 lower than the contour intervals used on Colebrook Hill. In the Ring River Grid, most arsenic anomalies lie close to old workings of Fahlore type vein mineralisation. Significant arsenic anomalies are discussed in the section "Anomaly Classification".

Iron: (Plan A0-504-0281)
Iron results were contoured at 1% and 5%. A distinct lithological control is evident with high soil Fe content reflecting high rock unit background Fe. For example soils developed on Crimson Creek Formation rocks have Fe >5% while soils on Stitt Quartzite have Fe <1%.

Chromium: (Plan A0-504-0282)
Chromium results were contoured at 60, 300 and 1,000 ppm. As for iron a distinct lithological control is evident. Rocks producing high chromium values in soils include Colebrook Hill Serpentinites, Moores Pimple Gabbro, "fuchsitic" conglomerates and altered basalts of the Curtain Davis Volcanics.

Geochemistry - Rocks: (See Appendix G - Rock Samples)
Twenty three grab samples were selected from rock samples collected by J. Richardson while mapping the grid and roads. Most of these were completely unmineralised. Elements which showed the most systematic variation with rock type were iron and chromium. Thus iron and chrome geochemistry can be used to aid geological mapping.

Geophysics - Magnetics: (Plan A0-504-0267 and Appendix B Magnetic Anomalies Ring River and Colebrook Hill, D.E. Leaman, 1982b)
Contouring of ground magnetics from the Ring River Grid defines two major anomalies and one minor anomaly. The major anomaly in the northwest corner of the grid correlates with mapped serpentinites and the minor anomaly around 375,000mE on line 5,369,500mN correlates with a small gabbroic intrusive. The other, unexplained anomaly, is a roughly circular feature centred

near 374,300mE on line 5,367,200mN. This anomaly is called the Ring River Magnetic Anomaly and is the subject of an interpretation by D.E. Leaman.

He interprets a roughly cylindrical body with a radius of 400m, depth to upper surface of 250-400m and a depth extent in excess of 1.0 - 1.5km. The calculated susceptibility of this body is about 0.003cgs units.

Geophysics - V.L.F.: (Plan A0-504-0269)
The Phoenix V.L.F.-2 meter was used to measure dip angle and maximum field strength. Results were plotted on 1:5,000 scale profiles and the dip angle results were hand smoothed. Dip angle values were read off the hand smoothed profiles at 25m intervals and the first derivative calculated and plotted on a grid base at 1:5,000 scale. These values were then contoured.

V.L.F. anomalies determined in this way correspond either with Dighem anomalies or with known major structures. V.L.F. appears a useful ground locator of Dighem anomalies in the Ring River Grid area. V.L.F. anomalies are further discussed in the section "Anomaly Classification".

Petrology: (See C.M.S. report 82/7/22 Appendix D-2)
The twelve samples selected from the Ring River Grid area for petrological description included lithic sandstones, conglomerates, altered acid to basic volcanics and an altered dolerite. Cowan reports; "The suite as a whole is devoid of specific contact - metasomatic effects. Alteration in the volcanics appears largely 'deuteric', although no doubt enhanced by burial and low-grade metamorphic effects." There was generally good agreement between petrological identifications and hand specimen determinations.

Anomaly Classificiation: (Plan A0-504-0313)
Plotting and grouping of all possibly significant geochemical and geophysical anomalies in the Ring River area has outlined ten anomalies that may be related to economic mineralisation.

These anomalies have been named and their generalised characteristics are listed below. Another three "anomalies" shown on the plan are obviously related to geological features. These are the Fahlore Fault V.L.F. response and the two serpentinite units (magnetic, V.L.F. and zinc geochemical responses).

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Lynton Mine Anomaly

Centre: 5,369,400mN 374,200mE

Approximate Size: 300m x 200m

Geochemical Response: Very high lead and zinc soil geochemistry - lead to 4,700 ppm, zinc to 3,750 ppm.

Geophysical Response(Dighem, V.L.F., Magnetics): Nil.

Known Mineralisation/Old Workings: Several adits, shafts and open trenches on galena-barite mineralisation in altered serpentinite.

Geology: Mineralisation occurs along the eastern margin of the serpentinite and is associated with quartz carbonate alteration of the serpentinite.

Comments: Extends into the Colebrook Hill Grid to the north.

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Scrubby Hill Anomaly

Centre: 5,369,000mN 375,300mE

Approximate Size: 600m x 100m

Geochemical Response: None.

Geophysical Response (Dighem, V.L.F., Magnetics): Dighem anomaly J and isolated V.L.F. responses.

Known Mineralisation/Old Workings: None.

Geology: Area of glacial cover underlain by Stitt Quartzite and shales and siltstones of the Westcott Argillite.

Comments: Creek mapping is the best chance of obtaining valid geological information in this area.

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Rugby Field Anomalies

Centre: 5,368,300mN 375,600mE

Approximate Size: 800m x 100m

Geochemical Response: Nil

Geophysical Response:(Dighem, V.L.F., Magnetics): Four Dighem responses - not covered by V.L.F. survey.

Known Mineralisation/Old Workings: None

Geology: Glacial cover over black pyritic shales. Near interpreted fault zone.

Comments: Requires geological and geochemical support.

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Western Ridge Anomaly

Centre: 5,367,300mN 373,900mE

Approximate Size: 800m x 50m

Geochemical Response: One small lead response 160-440 ppm.

Geophysical Response (Dighem, V.L.F., Magnetics): Dighem anomaly M and distinct V.L.F. anomalies.

Known Mineralisation/Old Workings: None.

Geology: Mostly underlain by Stitt Quartzite. Near interpreted extensions of Colebrook Ridge Fault and Fahlore Fault.

Comments: Western margin of Ring River Magnetic Anomaly.

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Ring River Magnetic Anomaly

Centre: 5,367,100mN 374,300mE

Approximate Size: 700m diameter

Geochemical Response: No significant responses.

Geophysical Response:(Dighem, V.L.F., Magnetics): Magnetic anomaly.

Known Mineralisation/Old Workings: Scattered small adits along creek at 374,300mE. No reported mineralisation.

Geology: On interpreted doubly plunging anticline in Stitt Quartzite.

Comments: Interpreted by D.E. Leaman - Appendix B Cylindrical body 400m radius with depth of 250-400m to top, depth extent greater than 1.0-1.5km and calculated susceptibility contrast of 0.003 cgs units. Interpreted as an intrusive body.

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RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Svengali Line Anomalies

Centre: 5,367,000mN 374,900mE

Approximate Size: 1,000m x 200m

Geochemical Response: Extensive response from arsenic, copper, lead and zinc. Responses show rough zonation down slope.

Geophysical Response (Dighem, V.L.F., Magnetics): One minor Dighem response of possible grade.

Known Mineralisation/Old Workings: Numerous short adits and shallow shafts on copper mineralisation associated with pyrite.

Geology: Westcott Argillite and Stitt Quartzite. Close to inferred fault trace.

Comments: Lies just east of Ring River Magnetic Anomaly. Zonation suggests some hydromorphic or biogenic control on anomaly distribution.

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Block 291 Anomalies

Centre: 5,366,700mN 373,600mE

Approximate Size: 500m x 100m

Geochemical Response: Very high lead and arsenic soil geochemistry with one copper value of 1,500 ppm.

Geophysical Response:(Dighem, V.L.F., Magnetics): Dighem anomaly N, definite V.L.F. anomaly.

Known Mineralisation/Old Workings: Three adits on Fahlore type pyrite + galena + tetrahedrite + siderite mineralisation outcropping in creek bed.

Geology: Occurs in Rosebery Group Sediments ("Chamberlain Shales").

Comments: Outside E.L. 1/62.

626026

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: South Road Anomalies

Centre: 5,366,300mN 374,000mE

Approximate Size: 800m x 200m

Geochemical Response: Scattered very high lead and arsenic soil values with spotty copper highs of 200 to 470 ppm.

Geophysical Response (Dighem, V.L.F., Magnetics): Low grade Dighem response and two distinct V.L.F. responses.

Known Mineralisation/Old Workings: Thin veins of argentiferous pyrite + galena + tetrahedrite + siderite exposed in small adits and in the new road.

Geology: Predominantly in Chamberlain Shale and Stitt Quartzite.

Comments: Just south of Ring River Magnetic Anomaly. Responses probably related to Fahlore type vein mineralisation.

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Bather Creek Anomalies

Centre: 5,365,300mN 375,100mE

Approximate Size: 800m x 200m

Geochemical Response: Scattered low level lead, arsenic and zinc soil geochemical values.

Geophysical Response:(Dighem, V.L.F., Magnetics): Nil - not covered by V.L.F. survey.

Known Mineralisation/Old Workings: None.

Geology: Munro Creek Shale associated with interbedded acid volcanics.

Comments: Possibly hydromorphic or biogenic in origin.

626027

RING RIVER GRID - ANOMALY CLASSIFICATION

Name: Evenden Mine Anomalies

Centre: 5,364,500mN 373,800mE

Approximate Size: 600m x 500m

Geochemical Response: Scattered copper soil values 200-445 ppm.

Geophysical Response (Dighem, V.L.F., Magnetics): Several, possibly related Dighem Anomalies. Not covered by V.L.F. survey.

Known Mineralisation/Old Workings: The Evenden Copper Mine occurs just south of this area.

Geology: Calcareous siltstones of the Rosebery Group are poorly exposed in the area.

Comments: Nil.

4.5. Natone General

4.5.1. Work Completed

A geological interpretation has been made over the Natone and Dobsons Creek areas using all the available lithological and structural data collected over the past several field seasons.

4.5.2. Results Received (Refer to Plates 1, 2 & 3 and to Plans A0-504-0043 0044, 0117, 0124, 0172,0173, 0174, 0290)

The geology is presented at 1:10,000 scale on Plate 1 as an interpretation plan and on Plates 2 and 3 as interpretation sections. The raw data is contained in the 1:5,000 scale outcrop geology plans listed above. Additional raw data from drill hole logs etc., has been presented in several previous reports and elsewhere within this report.

The main problems with the interpretation are:

i) A lack of distinctive marker horizons.

ii) A large volcanic component which is not necessarily stratigraphic in terms of the sediments and probably causes rapid local variation in thickness.

iii) There are no known fossils from any of the rocks in the area.

Certain assumptions have been made in the interpretation.

i) The most distinctive lithological unit is the Stitt Quartzite. Therefore whenever the association of clean

what abt Salisbury Cgl?

626028

not all clean qz arenite

quartz arenites and interbedded black shales occurs this has been interpreted as the Stitt Quartzite (Note this differs from the interpretation presented by J. Richardson in his report on the Ring River Grid mapping).

ii) Primary tuffs are interpreted as local facies variants representing proximity to volcanic centres (possibly a near-shore environment) and will have a sediment as a Basin facies stratigraphic equivalent.

iii) Where structural observations and lithologic data are in conflict, precedence is given to the structural information

Fourteen litho-stratigraphic units have been identified in the area as follows:

i) Eastern Volcanics

These comprise felsic ash-flows, tuffs, lavas and probable minor intrusions. In the vicinity of the Hercules and Jupiter mines they are strongly altered and schistose. These rocks are restricted to the eastern margin of the area. They are approximately equivalent to the Central Volcanics of Corbett (1981).

ii) Western Tuffs

These are a sequence of volcaniclastic rocks. Dominantly primary felsic tuffs of probable sub-aqueous deposition, they contain reworked tuffs and minor volcanic wacke and shale horizons. In the north of the area near Rosebery the Natone Volcanics and Williamsford Volcanics are local names for members of this unit.

iii) Western Argillites

This is primarily a shale and siltstone sequence with felsic volcanic wackes. It also contains minor calcareous siltstones, some sandstone and quartzite members and minor primary felsic tuffs. This unit interfingers with, and overlies the Western Tuffs and is regarded as a facies equivalent. In the north of the area the Chamberlain Shale and Westcott Argillite are local equivalents of this unit.

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iv) Salisbury Conglomerate

This is a distinctive sub-unit of the Western Argillite it consists dominantly of well rounded pebbles and cobbles of cherty siltstone, quartz and quartzite in a fine to coarse sand matrix of similar composition. Bright green fuchsite occurs associated with fractures in the matrix and on cobbles. It occurs in the north near Rosebery and to the south around Moores Pimple. It usually occurs in association with interbeds of Western Tuffs and may therefore represent local depression infillings in an environment of irregularly accumulating volcaniclastic sediments. Calcareous siltstones and dolomitic shales within the Western Argillite appear to occur in close proximity to Conglomerate outcrops.

The Western Tuffs, Western Argillites and Salisbury Conglomerate together are approximately equivalent to the Western Sequence of Corbett (op.cit.).

v) Stitt Quartzite

This comprises quartzite, quartz arenite, and minor quartz wacke and siltstone, interbedded with black shales. The black shales typically show intraformational soft-sediment folding and slump structures. The unit is found throughout the area north of Moores Pimple.

vi) Transition Series

This sequence of rocks is primarily characterised by siltstones but also contains quartzites, greywackes, mudstones, felsic volcanic wackes and mafic volcanic wackes and rare limestone horizons. The unit appears to be transitional between the underlying Stitt Quartzite and overlying Crimson Creek Formation with detritus from varied provenance. In the north of the area the Munro Creek Shales are local members of part of this unit.

The Western Tuffs, Western Argillites, Salisbury Conglomerate and Transition Series collectively make up the Rosebery Group.

vii) Crimson Creek Formation

This unit is characterised by mafic volcanic wackes and associated mudstones. The unit overlies the Transition Series and probably interfingers with it. The unit is restricted to the western flank of Colebrook Hill and in its original distribution may have thickened to the west and thinned rapidly to the east to interfinger with the Transition Series.

viii) Dundas Group

These are typically siliceous rocks. Siltstones and sandstones predominate but greywackes, shales and conglomerates also occur. Units of the Dundas Group only occur on the western side of the area and are everywhere in fault contact with the other units.

ix) Razorback Conglomerate

This is a siliceous conglomerate in a greywacke matrix and occurs on the western margins of the area just north of the Ring River in association with quartzites and siliceous siltstones. This is a sub-unit of the Dundas Group.

x) Curtin Davis Volcanics

These are strongly chlorite-altered basalts which occur in a restricted location on the western margin of the area south of the Ring River. They are associated with siltstones and greywackes. A little north of the basalt outcrops is an occurrence of a laharitic breccia which may also belong to this unit. Correlation of the Curtin Davis Volcanics is uncertain. They have previously been classed as a unit of the Dundas Group (Blisset, 1962) but their mafic volcanic character suggests affinities with the Crimson Creek Formation.

626031

xi) Colebrook Serpentinite

This is a serpentinised ultramafic of dominantly dunitic composition with pyroxenite variants. It occupies a linear belt on the west of Colebrook Ridge and is thought to have been emplaced along a fault zone. As it everywhere lies between Crimson Creek and Dundas Group it is possible that the unit is essentially stratigraphic lying above the Crimson Creek.

xii) Moores Pimple Gabbro

This is a strongly altered and silicified mafic to ultramafic intrusive rock. It has a roughly stock-like outcrop pattern and forms a high ridge just north of Moores Pimple.

xiii) Dundas Dolerite

This is a roughly circular stock of dolerite believed to be of Jurassic age which forms the top of Mt. Dundas.

xiv)Glacial Till

This is Pleistocene glacial till and fluvioglacial sands and gravels which form a variable thickness cover in the north eastern portion of the area.

Structurally the area is complex with at least two generations of folding and several major faults. A series of approximately north trending folds is designated F1. The amplitude and intensity varies with local overturning of isoclinal folds. Frequency appears to be greater in the sediment facies and lower in the volcanic rocks to the east. These F1 structures are refolded by a set of west-north-west trending folds designated F2. This set of folds plunges at variable angles to the west. Gently plunging F2 folds cause plunge reversals in the F1 structures and a broad arch and trough pattern.

An F2 anticlinal through the Moores Pimple-Dobsons Creek area brings up an arch of Western Tuff and Salisbury Conglomerate in the Moores Pimple area. A similar anticline in the area just south of Williamsford produces westward arching of the volcanics.

In the Bakers Creek area a fault is interpreted with a north block east movement to displace the Western Tuff/Western Argillite contact. However much of this movement may be due to an F2 synclinal warp. The very steep slopes in the area combined with flatter dips than elsewhere and the interfingering nature of contact may obscure the true stratigraphic trend and result in an apparent fault throw which does not exist. A similar F2 synclinal structure may explain the apparent north block east fault in the Stitt Quartzite/Transition Series contact at about 5,370,000mN. It would also explain the eastward swelling of the Transition Series/Crimson Creek contact in the same area. This swelling is invoked to include an area of very high Cr geochemistry which would seem more consistant with the mafic volcanic wackes of the Crimson Creek.

In the Ring River gorge area the F2 folds appear to have a steeper plunge and a greater frequency causing much more contortion of the F1 axes. This is probably only a function of the information density. The Ring River and N.E. Dundas Tramway provide almost continuous outcrop traverses through the area. If a similar density of structural data were available elsewhere, then possibly a similar complexity of folding would also be present elsewhere.

Major faulting in the area trends north-north-east with a smaller set of west to north-west crossfaults. The Bathers Creek Fault, Fahlore Fault and Colebrook Ridge Fault are the main faults in the area and all have west block down sense of movement. The Bakers Creek Fault dissappears under glacial cover to the north but may run into the anticlinal axis

interpreted in the vicinity of Westcott Hill. The Conliffe Fault does not have a large throw and is thought to be a faulted F1 anticlinal axis. It is interpreted as dying out southwards and running into the F1 anticlinal lying east of Moores Pimple. The Cemetary Fault in the north east of the area is invoked to explain the west facings observed in the Stitt Quartzite and the universal east faings in the Western Argillites, Salisbury Conglomerate and Western Tuffs intersected by the Mines Department drill hole Rosebery 1. The Curtin Davis Lineament is a very strong air-photo feature which strengthens westward out of the area and dies out eastwards. It appears to have a north block west sense of movement. All these faults are interpreted as near vertical as there is no evidence for shallow angle faulting such as topographic displacement.

The small triangular block of country bounded by the Fahlore, Colebrook Ridge and Curtin Davis Faults has been assigned to the Dundas Group largely because the structural trends are consistent with the Razorback Conglomerate syncline across the Fahlore Fault. The lithologies, however, are dominantly siltstones with associated quartzite, greywacke and shale with no distinctive horizons, and could equally easily be interpreted as a fault bounded block of Transition Series. The interpretation of this block dictates the relative throws on the southern extensions of the Fahlore and Colebrook Ridge Faults south of their intersection. In the interpretation presented the Colebrook Ridge Fault is attributed with most of the combined throw of the two faults in order that Western Argillites can be brought up against Dundas Group rocks in the vicinity of 5,366,500mN.

626034

REFERENCES

CORBETT, K.D., 1981 Stratigraphy and Mineralisation in the Mt. Read Volcanics - Western Tasmania. Economic Geology, Vol. 76 No. 2.

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APPENDIX A

Magnetic Interpretations - Colebrook Hill Grid

A-1 J. Bishop

A-2 R. Richardson

A-3 D.E. Leaman

626036 002

date : 3-6-82

Memorandum to : I. Mathieson, W.C.M.

from : J. R. Bishop

Subject : Interpretation of Dighem Magnetics

Summary

A deep seated magnetic body was interpreted beneath Colebrook Hill. It is centred beneath 5371150N; 375160E and strikes 140°(AMG), with dip 80° to the SW. It is a wide (200m for a susceptibility of .01), tabular body with its top at 150m a.s.l. assuming a (constant) flight height of 550m.

Background.

A deep drill hole is planned beneath Colebrook Hill: its siting will be partly based on magnetics. Ground magnetics has proved to be very noisy (see Bishop, 1980a) although a simplistic interpretation did depict a deep NW-SE trending tabular magnetic source (Bishop, 1980b).

A Dighem survey was flown over the Natone area in Feb. 1981. The magnetometer was at a nominal 50m above ground level: although the actual flight height varied considerably (usually much higher), a discrete anomaly has been defined over Colebrook Hill (Figure 1). The Dighem results were presented on 1:10,000 topographic maps with a contour interval of 25γ.

based on Parker Gay (1967) have been used: this assumes long, tabular bodies.

Interpretation

A strong anomaly was recorded over Colebrook Hill (between 5371000N and 5372000N, and 374800E and 375500E). The 'inner' part of the anomaly suggests a northwest trending magnetic body. A profile (AA') was taken over the anomaly where this elongation was most apparent. The high amplitude responses, EM indications, and the relatively large scale presentation of 1:10,000 have meant that only a rough profile could be taken. The profile (figure 2) shows the influence of at least three sources, the largest of which is due to the ultrabasics on the western edge of the survey. I have extrapolated (to the east) the (undisturbed) response to these rocks and subtracted it from the observed response, giving residual 1. It is emphasized that this extrapolation was quite subjective; a more accurate residual would be obtained by modelling the ultrabasics and using the best matching curve to provide the extrapolated response (noting that profile AA' is at an angle to the strike of the ultrabasic

Residual 1 in figure 3 clearly shows the influence of a shallow source and deeper source(s). The magnetic response over body 'A', a thin steeply dipping tabular body, is similar in shape to the top of residual 1: other sources are quite possible, but they are likely to have similar depths to 'A' (z = 75m to the top of the body). Residual 2 is the observed curve minus the effect of the ultrabasics, minus the effect of the shallow source

The top of residual 2 suggests two sources, however the shape here is very dependant upon the presence (and subtraction (deep seated)) of the shallow source (?s) and I have used a single source. For the interpretation of residual 2, I have assumed that the western side is relatively unaffected (apart from the, hopefully subtracted, effect of the ultrabasics) and have matched that side using a deep-seated tabular body (figure 4).

Residual 3 is the left over response from the modelling: it could be substantially reduced by reiterating the steps described above, slightly altering the models, etc to reduce the end error.

The interpreted, deep seated body (magnetic body 'B', figure 4) is dipping at 80° to the SW, is 400m deep (below the flight height, assumed constant at around 550m); and for a susceptibility of .01cgs units, it has a width of 200m. It strikes 140° (AMG). Beneath Profile AA', it is centred at 5,371,150N; 375,160E.

Comment

The position, shape, depth, etc of the final interpreted body ('B'), was dependant upon several steps, some of which were quite subjective: assumptions such as constant sensor height and infinitely long tabular sources were clearly not true. Also the interpreted width of 200m is perhaps geologically unlikely (?). Nevertheless the interpretation is not too dissimilar, particularly with respect to location and strike, to that of Bishop (1980b)

Recommendations

It is suggested that better results would be obtained using (computer) programs capable of simultaneously modelling several three dimensional bodies of different susceptibilities. The data used for the modelling should be generated from the digital recording – not the 1:10,000 contour plan. Further, the specifications of 'known' magnetic bodies (eg from the drilling) should be used to obtain 'cleaner' residuals. Specifications include susceptibility, width, dip, strike and shape (eg tabular or pipe-like body).

J.R. Bishop
4-6-82

References

Bishop, J.R., 1980a. Magnetic, VLF and Self Potential Surveys over Colebrook Hill. Mitre Geophysics report 80/04 for E.Z.

Bishop, J.R., 1980b. An interpretation of the Colebrook Hill magnetic survey. Mitre Geophysics report 80/08 for E.Z.

Parker Gay, S., 1967. Standard curves for interpretation of magnetic anomalies over long tabular bodies. SEG Mining Geophysics, Vol II.



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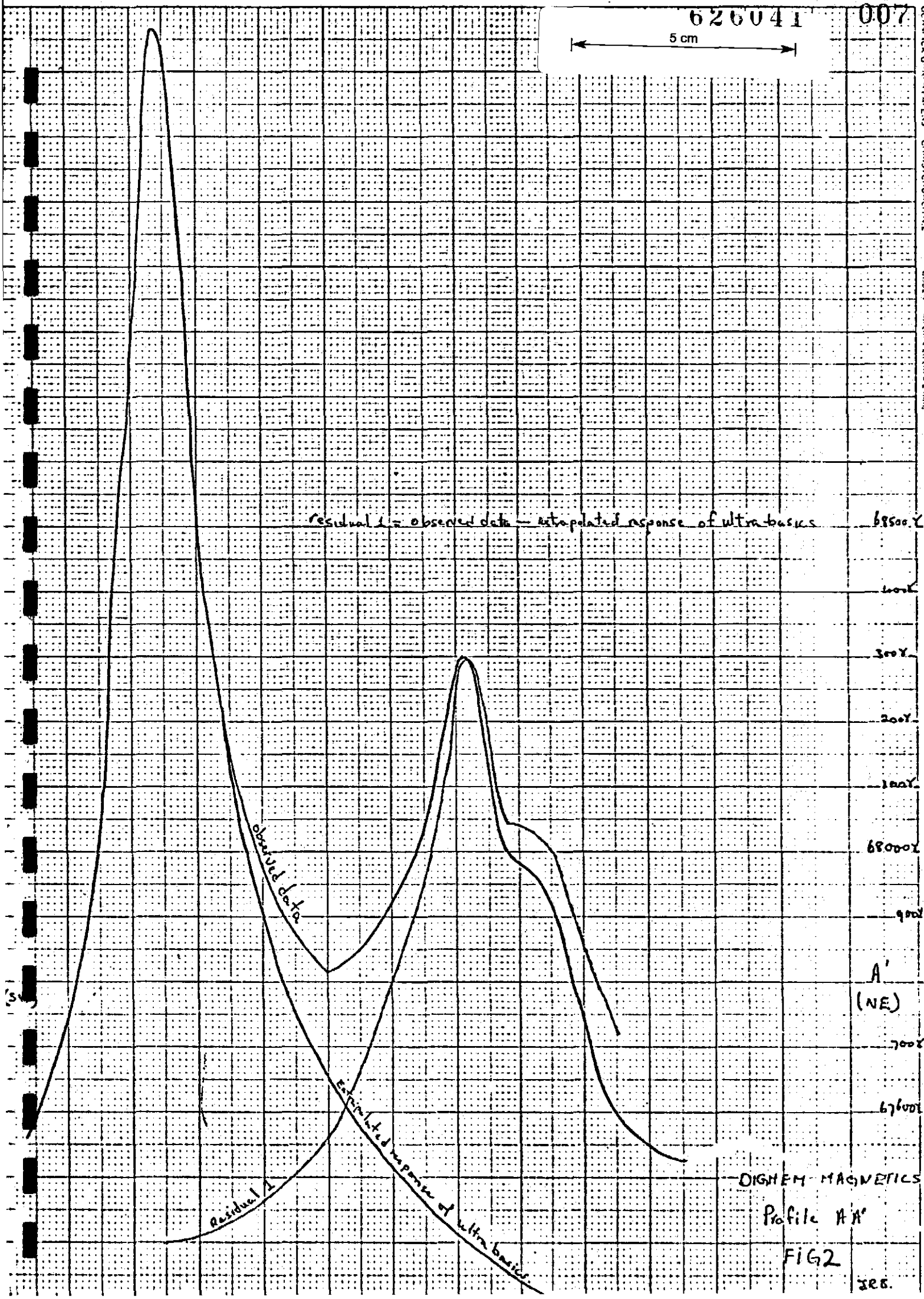
DIGHEM MAGNETICS
Location of
Profile AA'
FIG 1

006

626041

007

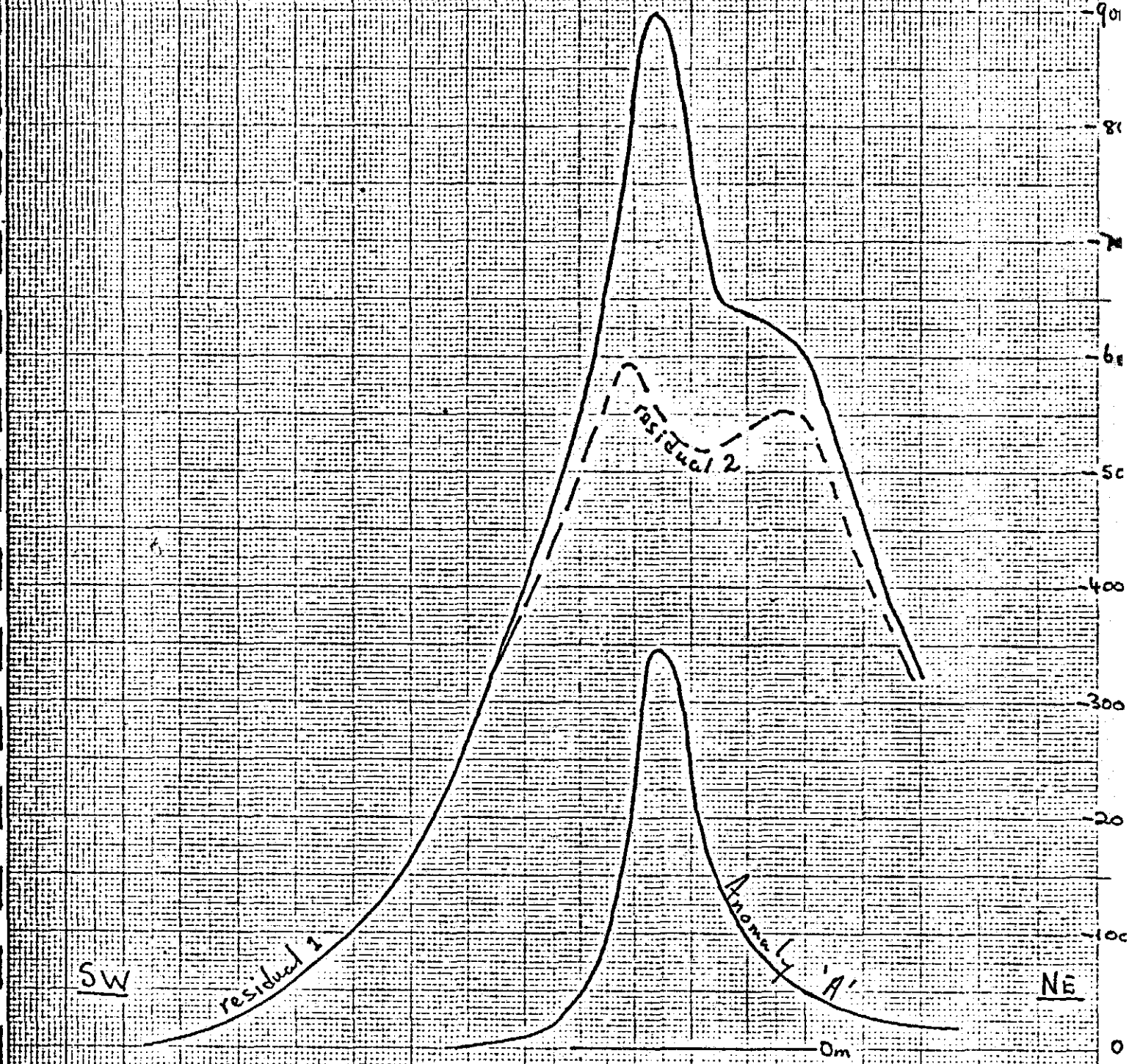
5 cm



GORMACK GRAPH PAPERS : CHRISTCHURCH N.Z. C101Y 19 cm x 28 cm in mm

626042 008

5 cm



magnetic body 'A'

z = 75m

t = 22m for

k = .01 cgs

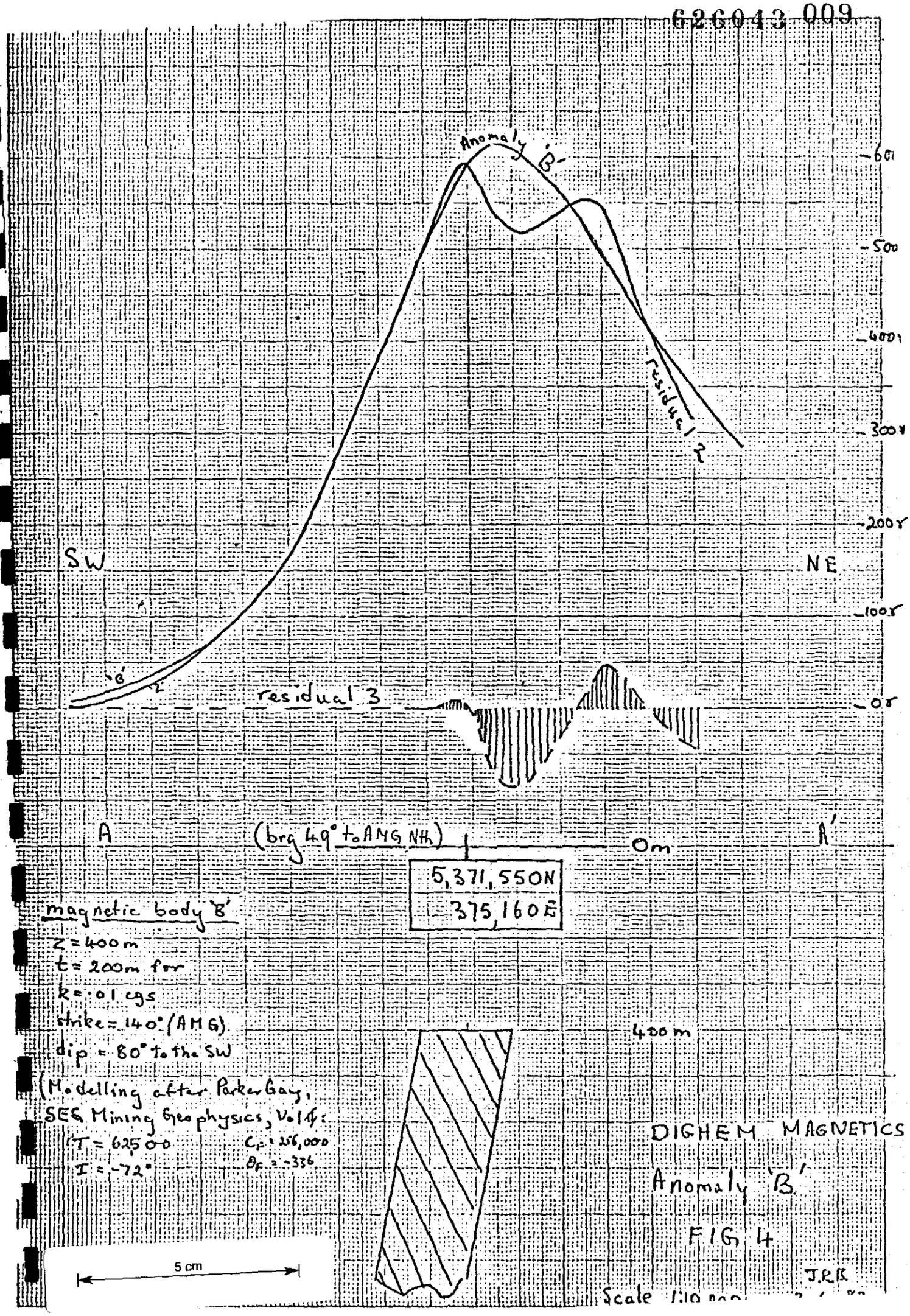
strike = 140° (AMG)

dip = 70° to the SW

(Modelling after Parker Gay, SEG Mining Geophysics, Vol II : C_F = 26700 θ_F = -346)

DIGHEM MAGNETICS

Residual & Anomaly 'A' FIG 3



magnetic body 'B'

z = 400m
t = 200m for
k = ·01 cgs
strike = 140° (AMG)
dip = 80° to the SW
(Modelling after Parker Gay, SEG Mining Geophysics, Vol 4:
T = 62500 C_F = 256,000
I = -72° θ_F = -336

DIGHEM MAGNETICS

Anomaly 'B'

FIG 4

J.R.B.

Scale 1:10 000

626044 010

GEOPHYSICAL APPRAISAL OF THE COLEBROOK HILL PROSPECT MT. BLACK E.L. 1/62 TASMANIA FOR GETTY OIL DEVELOPMENT CORP.

R. L. Richardson
RICHARDSON MCSHARRY PTY.LTD.
56 Pitt Street,
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24th June, 1982

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ACCOMPANYING PLAN

Ground Magnetic Contours

Mt. Colebrook Hill.

INTRODUCTION

RICHARDSON MCSHARRY (RM) have been asked by Getty Oil Development Corp. (GODC) to examine data from the Colebrook Hill prospect and provide assistance in interpreting and assessing the importance of geophysical anomalies in the area.

The Colebrook Hill prospect is one of several prospects in the Mt. Black E.L. No. 1/62 in Tasmania, currently being explored by E.Z. Industries Pty. Ltd. (EZ) in joint venture with GODC.

Testing of geophysical anomalies by diamond drilling has not been encouraging. Also, there is some uncertainty as to whether the anomalies have been explained by this drilling and whether further testing of geophysical anomalies is warranted.

RM have been specifically requested to determine whether there is geophysical evidence for a deep seated body of sufficient size and economic potential to justify drilling. The problem is expressed in terms of conductive bodies by I. R. MacDonald.

> "....the key problem on Colebrook Hill; namely, are there significant deeper conductive sources under the hill, or are the apparent deep responses only the sum effect of several near surface sources?"
> Mt. Black E.L.1/62 Progress Report July 1980 - June 1981.

Because of the need to determine on-going drilling requirements as quickly as possible, this study has been brief and has been limited to examination of available information, contouring of magnetic data, and some modelling work.

WORK DONE

Reports and data listed in the REFERENCES section have been studied.

Magnetic results between line 5369600N and 5372600N have been profiled, smoothed and contoured.

Some magnetic modelling work has been carried out on the magnetic anomaly immediately east of the Athenic and Olympic workings.

DISCUSSION OF RESULTS

Ground Magnetic Contours

Contours of our hand-smoothed data show some differences to the EZ contours. This is because many of the noise spikes that had been incorporated into EZ's data have been rejected.

In the NE quadrant of the grid our contours show a pronounced NNE strike trend which appears to match the aeromagnetic strike trend in that area.

The serpentinite to the west shows up as a zone of highly intense and erratic anomaly which is too noisy in parts to derive meaningful contours.

Several discontinuities are apparent in the data and these may be related to faults. However, they may also be related to changes in depth of cover, as it is clear that the magnetic response and contour picture is sensitive to changes in depth of the magnetic sources.

The data requires heavy smoothing in places. However, smoothing of the magnetic data using an 11 point rolling mean is not a valid procedure and produces gross distortions in the data. Magnetic data which is highly erratic and includes numerous noise spikes, must be either carefully manually smoothed or automatically processed using sophisticated frequency filters and spike removal routines. Consequently the smoothed data contours by Bishop (Appendix X1, EZ Report No. 134) is quite artificial and the interpreted NW striking body at depth simply does not exist.

The data is so complex in places that 1:2,000 would be a more appropriate scale for profiling and contouring.

Colebrook Hill Geophysics & Drilling

In the immediate Colebrook Hill area, VLF, SP, and magnetic anomalies are coincident, confirming that these anomalies are due to pyrrhotite. Magnetic anomalies elsewhere, such as on the eastern flanks of Colebrook Hill, do not show concomitant VLF and SP anomalies, presumably because the mineralisation here is buried under scree and too deep to respond to VLF and SP.

The disseminated and veined pyrrhotite mineralisation encountered in DDH's 228, 229, and 239 appears to explain the various magnetic features related to these drill-holes. The best looking magnetic anomaly feature situated near the crest of Colebrook Hill appears to have been satisfactorily tested by DDH 228. Several other similar magnetic features occur, particularly in the NE quadrant of the gridded area.

However, the lack of anomalous Sn values associated with the pyrrhotite intersected in all drilling to date suggests that further testing of this type of magnetic feature may not be an effective strategy for tin exploration, in this immediate area at least. However DDH 228 did encounter anomalous Cu associated with pyrrhotite. This seems to tie in with the anomalous Cu observed in geochemical soil sampling in this area.

A Deeper Body Beneath Colebrook Hill?

We see no clear evidence for the existence of a magnetic or conductive body of economic significance and size at depth, beneath Colebrook Hill. The geophysical results in this area appear to be generally consistent with what is known of the geology and simply reflect the presence of a zone of thin, steeply dipping pyrrhotite veins, striking generally NNE.

The aeromagnetic anomaly over Colebrook Hill represents no more than the combined magnetic effect of an area of narrow pyrrhotite veins, the anomalies of which add together, to produce a relatively broad and isolated anomaly at flying height.

Although some traverses show long wavelength components in the magnetic anomaly character, this is what would be expected from the combined effect of a large number of thin magnetic sources which extend from near surface to probably considerable depth.

Likewise electrical methods show no evidence of a deeper conductive body, nor would this be expected given that the responses due to the extensive shallow sulphide mineralisation would swamp responses from deeper sources.

Drilling targets could be defined to test further geophysical anomalies in the immediate Colebrook Hill area, but there is no geophysical evidence to suggest that intersections significantly better than those obtained in DDH's 228, 229, and 230 would be achieved, either at depth or near surface.

This does not mean however that drilling should not proceed on geochemical and/or geological grounds. While there is no positive evidence for the existence of a deep body, nor is there evidence that would preclude it.

The Olympic/Athenic Area

An intense and relatively isolated magnetic anomaly striking NNE is situated close to the Athenic and Olympic workings.

This anomaly may warrant testing for the following reasons:

a) based on the results of previous drilling it is likely to be due to pyrrhotite mineralisation.

b) it is situated very close to old workings which systematic sampling has shown to contain high tin values. These workings would not have intersected the causative magnetic body.

c) EZ report that this area lies on a photo-lineament trend.

The anomaly is interpreted as being due to a thin (10-30 metres wide) and steeply dipping tabular or lensoid body. The top is approx. 10 - 20 metres below ground surface. Magnetic susceptibility is consistent with measured suceptibilities of pyrrhotite from previous drill-holes (i.e. 0.003 - 0.01 c.g.s.).

A recommended target to test this body at a shallow depth is as follows:

Drill in the direction 290° (grid) to intersect the point 50 metres vertically below the grid position 5374865E/5370855N.

To the west of the Olympic workings, the anomaly due to the NS trending serpentinite zone has a noticeable bulge on its eastern side. This may be due to a thickening of the serpentinite in these parts, or possibly due to pyrrhotite mineralisation on the eastern serpentinite contact.

Other Specific Features of Interest

Particular geophysical features which may justify closer examination are as follows:

a) On line 5370200N, an isolated Cr anomaly exists between 5374900E and 5375100E and is associated with an IP anomaly.

b) On line 5369900N, a shallow seated IP anomaly exists in association with high Cr, Sn, and As geochemical values, at 5374600E.

c) On line 5371000N a isolated magnetic anomaly exists co-incident with an IP anomaly. Both magnetic and IP sources appear to be relatively deep.

d) The large semi-circular aeromagnetic anomaly situated approx. 3 kms south of Colebrook Hill is currently being gridded

and covered by ground magnetics. Any such feature which could conceivably be due to a very large but discrete magnetic mass should be thoroughly investigated.

The Wider Picture

The area includes a number of specific features of potentially economic interest. How do these features relate to one another and the overall geology and structure of the area? The magnetics could provide assistance in this regard. It is suggested that the magnetic picture at Colebrook Hill be compared with that of other known deposits in the region. There is some evidence to suggest that other deposits in the region lie in particular geological and structural "settings" which are expressed in regional aeromagnetic information.

Study of the magnetic picture at this scale, at Colebrook Hill and for other prospects in the E.L. may assist in recognising parallels with known deposit settings and generally assist in the interpretation of the geology and structure.

Geophysical Input

EZ's reporting suggests some uncertainty regarding the application and interpretation of existing geophysical data. It is recommended that experienced geophysical expertise should be involved in or attached to the project on a long-term basis, for the following reasons:

a) EZ and GODC have already invested in a massive amount of geophysical data collection (ground magnetics, IP, TEM, SP, VLF, max-min, aeromagnetics and DIGHEM on Colebrook Hill alone).

b) the quality of the "address" and the value of the targets sought warrant the application of the best skills available.

c) known deposits and mineralisation in the region have clear geophysical manifestations on a regional and prospect scale.

Without the integration of experienced geophysical expertise in the project there is a risk of following false geophysical leads, or missing significant real opportunities.

SUMMARY

1. There is no positive geophysical evidence for the existence of a deep seated magnetic or conductive body of significant dimensions under Colebrook Hill. On-going testing in this area should be based on geological and/or geophysical considerations.

2. A magnetic anomaly near the Olympic and Athenic workings, is recommended for testing and a drilling target has been defined.

3. It is recommended that the project would benefit by the involvement of top quality geophysical skills on a long term basis.

4. Apart from the Olympic magnetic anomaly, four other geophysical indications warrant closer examination.

5. Magnetic data should be profiled, smoothed and contoured at 1:2,000 scale.

24th June 1982

REFERENCES

Information studied was from the following sources:

1. Mt. Black E.L. 1/62
Progress Report on Activity,
July 1980 - June 1981.
E.Z. Geology Dept., Report No. 142.

2. Mr. Black E.L. 1/62
Progress Report on Activity,
15.12.81 - 4.5.82.
E.Z. Report No. 148

3. Discussions with R. White, G.O.D.C.

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EVALUATION:

MAGNETIC ANOMALIES
COLEBROOK HILL PROSPECT

for

ELECTROLYTIC ZINC CO. A/ASIA LTD.

by

D.E.LEAMAN

LEAMAN GEOPHYSICS

September 1982

626057 024

INTRODUCTION:

The Colebrook Hill Prospect is located south of Rosebery, Western Tasmania, in the E.L. 1/62,Mt. Black. Much geophysical exploration has been undertaken including magnetics and a range of electrical methods. The target in this area is tin-bearing pyrrhotite mineralisation within volcanic wackes and siltstone of the Cambrian Crimson Creek Formation.

Coincident magnetic, EM, EIP anomalies have been observed but there is considerable uncertainty as to the nature, distribution and depth range of the sources. Leaman Geophysics was asked to review and evaluate one such anomaly (labelled '2' in Figure 1). Anomaly '1' has been the subject of a separate evaluation (Richardson, 1982). The purposes of the evaluation in each case have been to improve definition of the anomaly and its source depth to aid drill location and establish if sources of sufficient size exist to justify drilling.

DATA AND TREATMENT:

Some of the total field magnetic data provided is reproduced in Figure 1. As requested, the evaluation has been restricted to anomaly '2' but in order to place this feature in true perspective all data between 5370900 and 5371200mN have been reviewed. Additional data from lines 950, 050 and 150 not shown in Figure 1 has also been examined (refer EZ plan AO-504-0288).

Profile plots (Figure 2) of the magnetic data shows it to be rather noisy with a major feature west of 374500. Anomalies '1' and '2' are labelled and seen to be rather spiky, generally width-limited and often patchy features. Most profiles show the anomalies as abnormal spikes in a general zone of magnetic disturbance. The bulges of anomaly evident on lines 000, 100mN may be due either to constructive interference of many, small shallow sources or superposition of such sources on a large deep source. This study has sought to resolve these alternatives.

In order to define the sources the following processing has been undertaken.

i) spectral analysis to define likely source depth-width ranges and relative significance,
ii) pole reduction analysis to appraise source distribution,
iii) analytic signal analysis to define source boundaries,
iv) horizontal and vertical gradient analysis to estimate source dip and location,
v) filtering to decompose spikes and assess the apparent long wavelength aspects of the profiles, and
vi) upward continuation as a means of filtering, confirmation of conclusions implied by ii, v, and for correlation with airborne data.

This treatment has been applied to <u>all</u> data along lines 5370900, 5371000, 5371100 and 5371200 since analysis is wasteful of data coverage and use of a large data sample is essential. Other

lines lack sufficient data symmetrically disposed about anomaly '2'. A limitation is imposed on the analysis by the 10 metre station interval.

The evaluation was concluded with a model reconstructior of the sources to test their magnetic signature. The contribution of the major regional, ultra-basic sourced anomaly which provides a base level for the field has not been assessed.

DISCUSSION:

The profiles (Figure 2) show anomaly '2' to be continuous over a north-south strike distance of about 300 metres. It is larger and more consistent than anomaly '1' north of 5370900mN. The greatest development of the anomaly is observed between lines 950 and 050. In general, anomaly '1' has a purer shape suggesting fewer or simpler source conditions.

Spectral analysis on all lines suggests that there are many thin (less than the sampling interval of 10 metres) and shallow (generally less than 25-30m) sources with a limited depth extent (or continuity in depth). The analysis was undertaken in two passes; one of all data on the line and another of segments along the line. This was done to evaluate the bias induced by the primary structural anomaly at 374400mE. On line 900 noise sources occur within 10m of the surface and the source of anomaly '1' lies within 25-30m of the surface. This estimate is in agreement with Richardson (1982). However, there is a vague suggestion of other source contributions from about 75 metres. On line 000 it is possible to refine the depth estimates and a significant number of sources lie at 40-65m with a suggestion of a deeper source at 100 metres. A value of 50m is typical for anomaly '2'. The low bulge at the eastern end of the line appears to be the combined effect of many sources extending to within 20-25 metres of the surface and a deeper source at about 60-65 metres. Most of the energy is carried in the shallow noise. The 'deeper' source may reflect the effective centre of mass or shape of the many small patchy sources which reach closer to the surface. The deeper source is not depth limited. On line 100 most sources are again depth limited and within 20-25 metres of the surface (20m at '1'). However a significant part of the spectrum at '2' and in the swell of anomaly to the east is derived from depths of up to 80 metres. As a comparison, the ultrabasic-source for the major anomaly to the west lies within 25-40 metres of the surface across a substantial width. On line 200 there is no indication of any sources deeper than 20-30 metres. Most lie at less than 10-20 metres; the limit of resolution with the available data.

Reduction to the source poles indicates a general dispersion of sources. With the exception of the major western ultrabasic body only a small zone at 374850 (line 900 - anomaly '1') is clearly defined. Anomaly '2' on line 000 is poorly defined indicating many sources. Examination of the analytic signal also suggests a complex and diverse source pattern with local exceptions within at anomaly '1' on lines 900 and 100 and within anomaly '2'

on lines 000 and 100 (e.g. 375010-060, line 000). In the case of anomaly '2' the boundaries are far from simple. Gradient analysis of both raw and filtered data support the implications of the pole reduction and the analytic signal.

The filtering effect of upward continuation is demonstrated in Figure 3. The continuation shown is for 150m, approximately the level of the recent Mines Department survey. At this elevation only the gross western anomaly is significant and all other effects are integrated into a poorly resolved bench anomaly. Results along lines 100 and 200 can be contrasted with airborne line 1441 which wanders between them. All salient features are reproduced and the variability of the main anomaly is stressed. The response is consistent with a multitude of small sources.

The 'impurity' and aliasing of the anomaly forms has generally precluded evaluation of source dips and widths. However, the integrated response of anomaly '2' on line 000, where it is most strongly developed, has been modelled in mild continued form (h=50m-Figure 3) in order to assess overall source character. The continued form of anomaly '2' has been removed as a residual for model reference. At 50 metres, anomaly '1' induces a compound effect on the profile and was included in the models. The dip of the sources could not be resolved but is in excess of 60°. The sources could dip either west or east - the data is inadequate for the determination - but the equivalent bulk susceptibility is about 0.005 cgs. Modelling suggests, for line 000, that the source of anomaly '1' is about 15 to 20 metres wide while that for anomaly '2' is about 45-50 metres wide. Each source (zone) has a depth extent in excess of 65-80 metres.

CONCLUSIONS:

1. The magnetic anomalies observed near 375000mE, 5371000mN on Colebrook Hill (e.g. anomaly '2') are related to a large number of small, relatively shallow sources which may be expected to be discontinuous along strike and in depth extent. Most magnetic bodies - probably pyrrhotite veins or equivalent- reach close to the surface; certainly to depths less than 10 to 20 metres.

2. The patchy concentration of anomaly sources produces localised anomalies which give the illusion of deeper bodies. However, no sources deeper than 60 to 80 metres are implied in any of the observations. No single large deep source is present.

3. The magnetic vein swarms(?) are concentrated in at least two en-echelon groups in the area examined. The greatest concentrations occur at anomaly '1' near line 900 and anomaly '2' near line 000.

4. Any drillhole directed at the heart of anomaly '2' must intersect either of the following zones at least 40-50 metres below the surface.
   i) line 950:375020-375050
   ii) line 000:375010-375060

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In view of the indefinite interpretation of source dips a low inclination hole from either east or west is suggested. Note that not all sources will be encountered in such a hole, just the localised concentration.

5. A ten metre sampling in the conditions at Colebrook Hill is reasonable. However, one metre sampling of some individual anomalies would be necessary to yield enough data for the calculation of source dips. The sampling interval controls the resolution of any interpretation.

6. Data of this type can only be modelled after careful and specified filtering or continuation but is suited to spectral analysis.

7. Airborne surveys will present a low amplitude shoulder anomaly on the main ultrabasic anomaly. This represents a summation of the many small sources scattered across the region.

OTHER DATA:

Electrical data on line 5371000mN has also been inspected. An EM conductor zone at 375030-060 overlaps the magnetic source concentration and may extend to 375080m. EIP-resistivity data suggest that the anomaly extends from depths of 15-20 metres or less between 373020-070mE. Use of a 60 metre dipole only and absence of intermediate observations or soundings does not permit better resolution. The electrical data as presented give no indication of depth extent.

Reference:
Richardson, L.R., 1982. Geophysical appraisal of the Colebrook Hill Prospect, Mt. Black EL 1/62 for Getty Oil Development Corp.

Report submitted on behalf of
Leaman Geophysics
by

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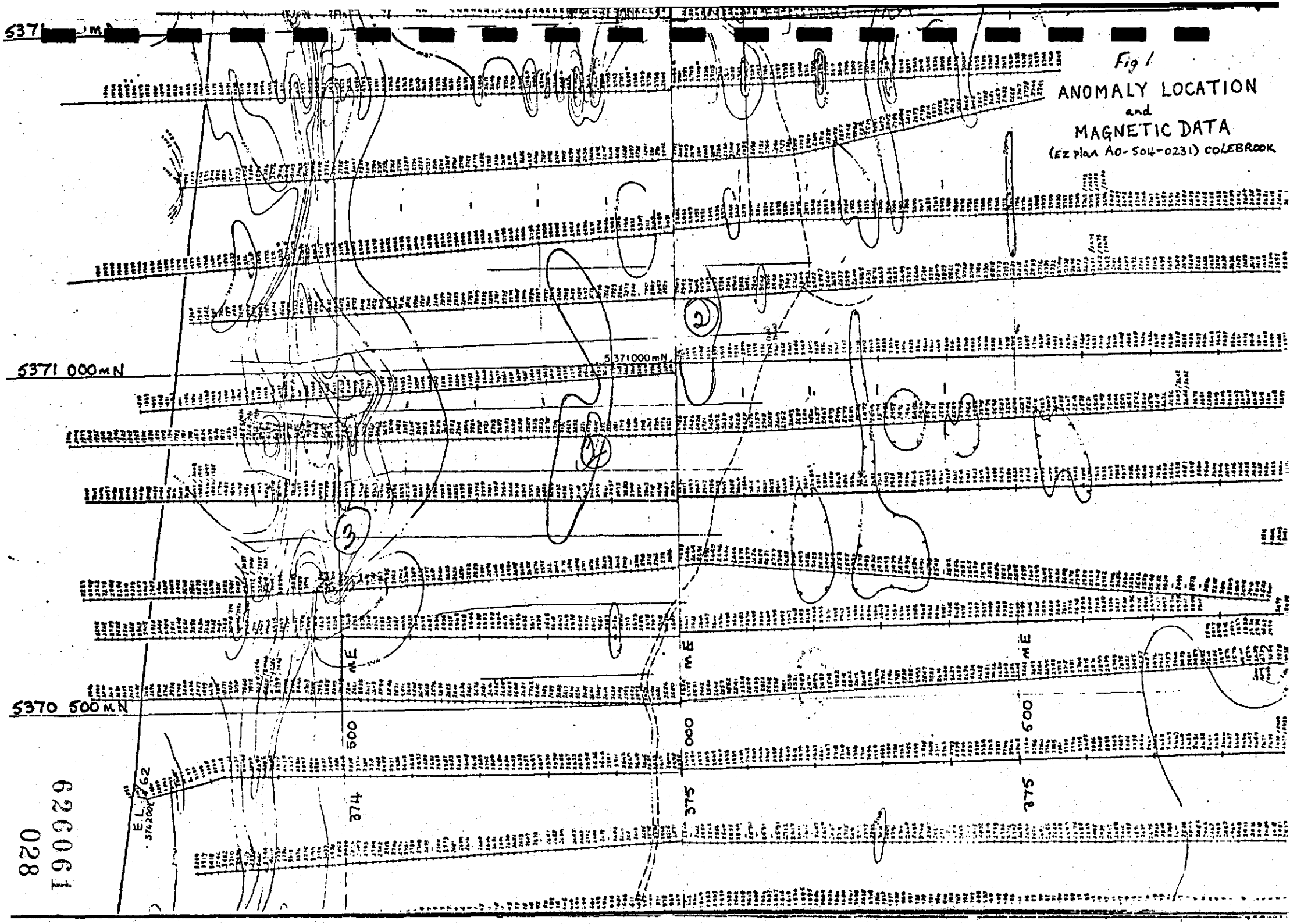

Fig 1
ANOMALY LOCATION
and
MAGNETIC DATA
(EZ plan AO-504-0231) COLEBROOK

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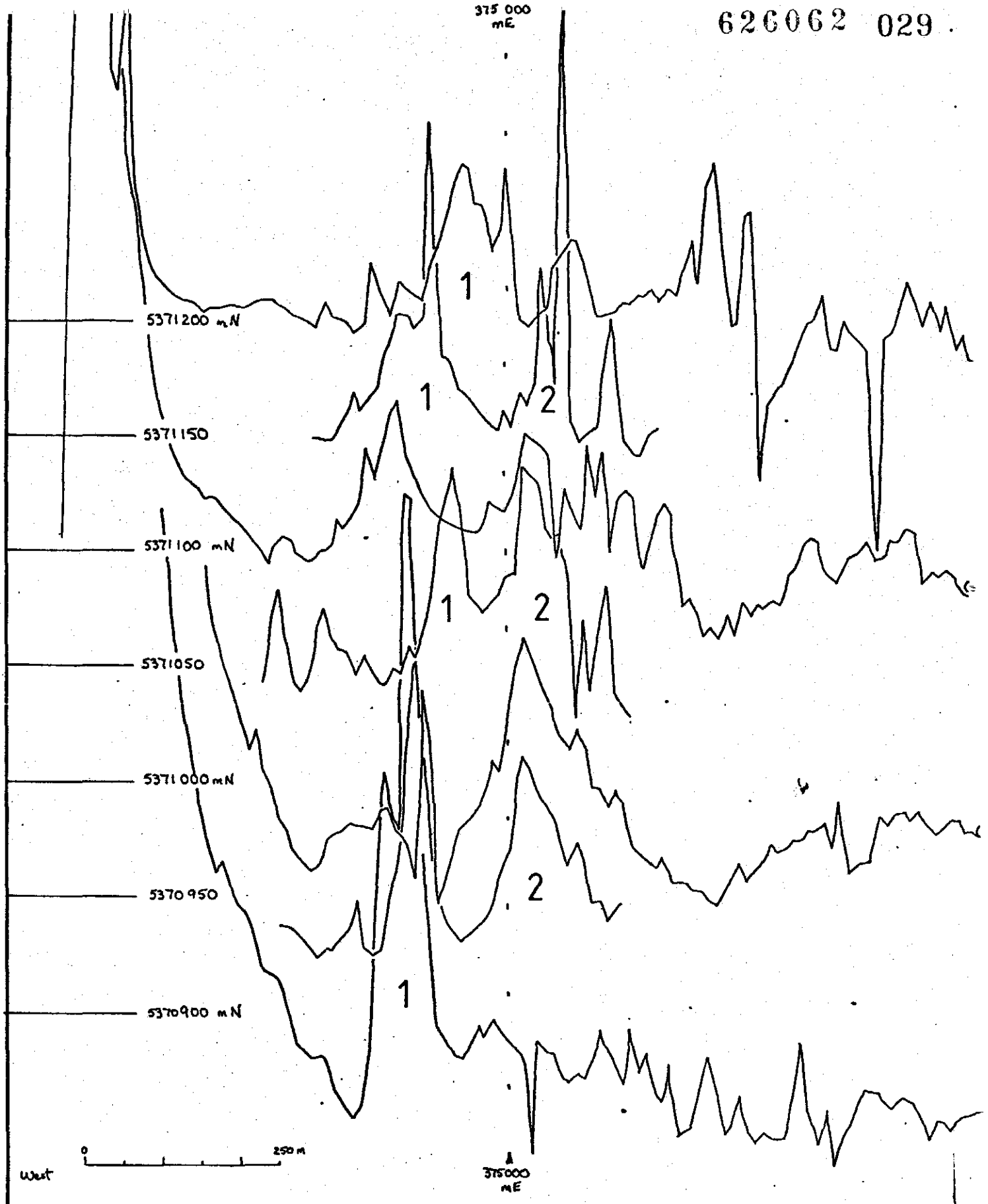
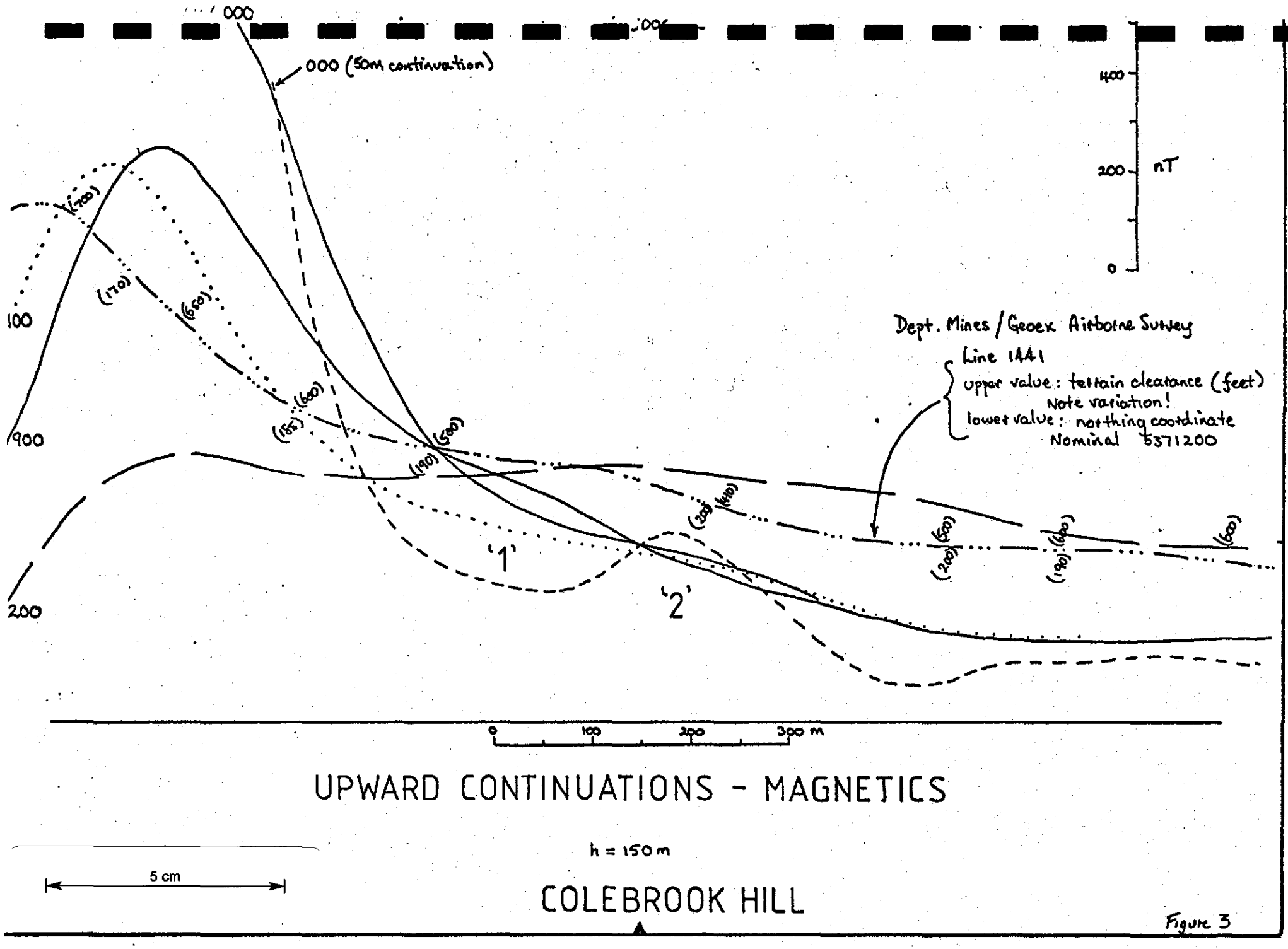


STACKED PROFILES TOTAL MAGNETIC FIELD

COLEBROOK HILL

Fig 2

5 cm



UPWARD CONTINUATIONS - MAGNETICS

h = 150 m

5 cm

COLEBROOK HILL

Figure 3

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APPENDIX B

Magnetic Interpretations Ring River Grid.

D.E. Leaman

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EVALUATION:

MAGNETIC ANOMALIES
RING RIVER AND COLEBROOK HILL

for
ELECTROLYTIC ZINC CO. A/ASIA. LTD.

by
D.E.LEAMAN
LEAMAN GEOPHYSICS

October 1982

626066 033

The anomalies examined lie south of Rosebery in Western Tasmania within E.L. 1/62 (Mt. Black). Two anomalies were submitted for examination.

i) a roughly circular feature centred near 374300mE, 5367200 mN (called the Ring River magnetic anomaly), and

ii) a strong linear feature on the western side of Colebrook Hill (e.g. approx 374500mE, 5371000mN).

The Electrolytic Zinc Co. requested a complete interpretation of anomaly (i); depth, dimensions, magnetisation and shape of the upper surface of the causative body(ies); and a dip analysis of anomaly (ii).

THE RING RIVER ANOMALY:

Total field observations are reproduced in Figures 1 to 12 from data supplied by the EZ Co. This data has been subjected to three types of analysis.

i) inspection for anomaly characteristics,
ii) digital processing for source parameters,
iii) compilation and testing of the implied properties by iterated three-dimensional modelling.

The solution provided is probably not unique but the modelling process applied in confirmation indicates limits for the properties and dimensions of the source body.

Contouring of the values presented in Figure 1 reveals a circular pattern with generally undisturbed gradients to the south and west (see also Figures 4 to 11). Comparable gradients may be observed to the east, south of 5366800mN (Figures 2 to 5). Elsewhere the primary anomaly, the object of this interpretation, is disrupted by strong, localised, near-surface sources (see below). The anomaly is slightly asymmetrical with steeper gradients to the north and east although these are enhanced by disturbances A (approx 374300mE, 5367400mN) and B (approx 374700mE, 5367300mN). Field base levels are recorded only to the east and a value of 62475-62500 nT is implied. The amplitude of the anomaly is about 480 nT and typical horizontal gradients are 0.5 nT/m (to west) and 1 nT/m (to east). Transformation of the data indicates that normal vertical gradients are of the order of 450 to 650 nT/km.

Source depths may be variously estimated at about 300m (slope methods), 225-400m (spectral analysis), 280-410m (gradient analysis), 300-400m (half widths).

Gradient analysis and calculation of the analytic signal suggest a rougly cylindrical body with radius of 400 metres. On this basis the indicated magnetic contrast is about 0.003 cgs. Slight variations in dimensions or source shape type (sphere, slab etc) confirm a value within the range 0.0005 to 0.005 cgs, with a typical value of 0.002 to 0.004 cgs.

The preliminary indications noted above have been compiled into a three-dimensional model and iterated until a reasonable fit was achieved. The body shown in Figure 13 is responsible for the calculated profiles superimposed on field data in Figures 2 to 12. It accounts for all salient features of the primary anomaly and allows resolution and separation of the disturbing features (especially A and B, see above).

The solution was derived after eight iterations and testing of five secondary variations from a basic cylinder. Iterations have defined the shape in plan and the form of the upper surface while variations have tested the possibility of contact dips.

No permanent magnetisation has been included in the calculation. At the depth and contrast implied little is indicated. Any remanence effects, normal or reverse or both, would be accreted within the induction vector. The contrast estimated may, due to continuation effects, represent a slightly amplified bulk susceptibility for the material or the magnetisation itself. Since the calculated susceptibility is about 0.003 cgs, and could include a remanent component, the true susceptibility could be less than 0.002 cgs if the Koenigsberger ratio exceeds unity. In any event the source is neither strongly magnetised nor strongly magnetic and the value of 0.003 cgs should be regarded as a total or resultant value. Modelling also suggested a slight reduction northward (0.0032 to 0.0027 cgs) along the body.

It has not been possible to reliably resolve the dip of any edge of the body, due to its shape, but there are suggestions on both eastern and western faces of a very steep westerly dip. All dips are subvertical (in excess of 70°).

Although some uncertainty inevitably attaches to depth estimates, being a function of body shape/volume and contrast, the body lies at a depth of about 300 metres. Using the control of analytically determined body edges it may be stated that any protrusion of the body above 240 metres will be very minor. The body appears to possess a substantial depth extent (in excess of 1000-1500 metres) with a pinnacle near 374500mE, 5367100mN. All depth estimates must be regarded as order of magnitude only due to interpretive ambiguity, uncontrolled interpretation and topographic effects. Figure 13 presents the interpreted form of the upper surface of the body with respect to the land surface. Elevation differences across the survey area have not been applied to correct the depth values and define the actual form of the upper surface.

Small differences between calculated and observed profile may be due to small line deviations. For ease of calculation all

model data has been calculated for points on east-west lines at the nominated northing. However, not all actual lines are straight, precisely east-west or at the nominal northing. (The modelling programme used can determine the value of the magnetic field at ANY point or across any grid however oriented but the extra operator effort was not justified in this case since the line positions do approximate and the effect can be assessed over many lines - even if slightly errant in position).

Topographic effects will have introduced more serious errors during processing, since they have been ignored. Most deviations between the calculated and observed profiles can be related to topographic forms (esp. Figures 8 to 12). Most deviations are negative, implying reversely magnetised source bodies. While it is possible that some high amplitude, short wavelength features are of this type (e.g. features A, B - Figure 10) most 'flat' spots on the anomaly peak and 'bites' on the limbs (especially to the east) can be explained by hill side - topography/depth variation effects.

When the interpreted form of the body (Figure 13) is superimposed on available geological data (Figure 14) - as is partly done in Figure 13 - the shape and orientation of the body is found to correlate easily with inferred fault trends. Some possible map revisions are suggested; given the inferred nature of the structures it should be possible to mate the geological and magnetic interpretations. The shallowest part of the body appears to correlate with the core of an anticline. The east side of the body may also be faulted and geological data are not inconsistent with this possibility.

The source of the anomaly could be ultrabasics, basic volcanics or intrusives, tuffs, magnetite-bearing granites or contact zones, or mineralisation. The writer is not in a position to fully appraise these options due to lack of rock property or stratigraphic data but ultrabasics are commonly much more strongly magnetised (see Colebrook Hill anomaly discussion). The general shape of the body and the implied depth extent indicate an intrusive feature rather than a folded and faulted sedimentary feature.

Spectral analysis has also indicated a number of sources in the 15 to 80 metre depth range. While many of these (60-80m) may reflect topographic relief effects some are real. Anomaly A (Figure 11, 12) can be correlated with the mineralised zone south of the Fahlore Mine. The source is narrow (10-25 m wide) at the south end of the zone but broadens northward. It is reversely and strongly magnetised. No obvious explanation can be offered for anomaly B (Figure 10) but it has the same characteristics as A and is due either to compound or larger sources. In each case the top of the source is within ten metres of the surface.

THE COLEBROOK HILL ANOMALY:

The anomaly is related to exposed Cambrian ultrabasics. It is a variable and extreme feature (amplitude up to 8500nT) with a north-south orientation and an extension of several kilometres. The character of the anomaly suggests at least two or three related sources with differing magnetic properties. All approach the surface and are rarely more than 25 metres wide (one is 75 m wide on line 900).

Compound gradient analysis of the raw data indicates a general source dip of 50-70° to the west. This was not verified by modelling a smoothed (continued) form of the data (lines 5370900, 5371000, 5371100 mN). It is possible that the eastern contact does indeed dip west at the angle inferred but the body as a whole, or its components, cannot be proven to dip west using assumptions of induced field alone. Several combinations of dip and multiple bodies were tested but none could provide the strong mid anomaly spiking or the negative tail to the west. It is probable that one or more of the source parts is strongly magnetised in a direction not concordant with the present earth's field. No dip determination is possible, therefore, without property measurements on a range of local ultrabasics - including estimates of remanence directions. Modelling has shown that the minimum bulk susceptibility/magnetisation of anomalous members of the ultrabasic suite is more than 0.01 to 0.02 cgs and the strongly magnetised units exceed 0.05 cgs.

It was noted, however, that a profile match could be obtained by assuming the western part of the suite to be magnetis. in a direction opposing the present field (0.05 Gauss) while the eastern part was normally magnetised (equiv susc. 0.04 cgs); all units dipping west at 65°. None of these assumptions is unreasonable but the critical remanence direction factor should be verified. (Note: 0.05 G is equivalent to 0.08 cgs).

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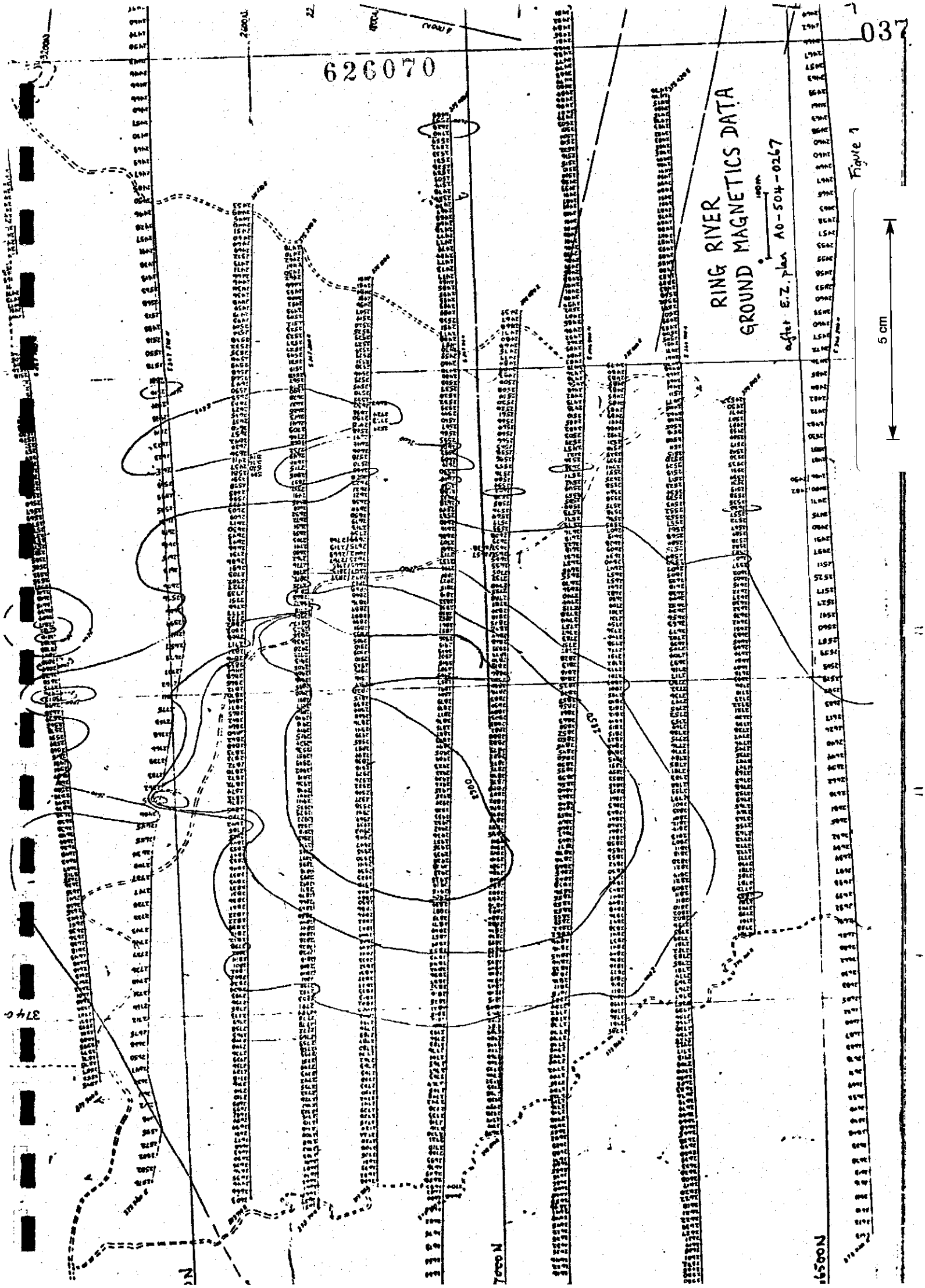

Figure 1

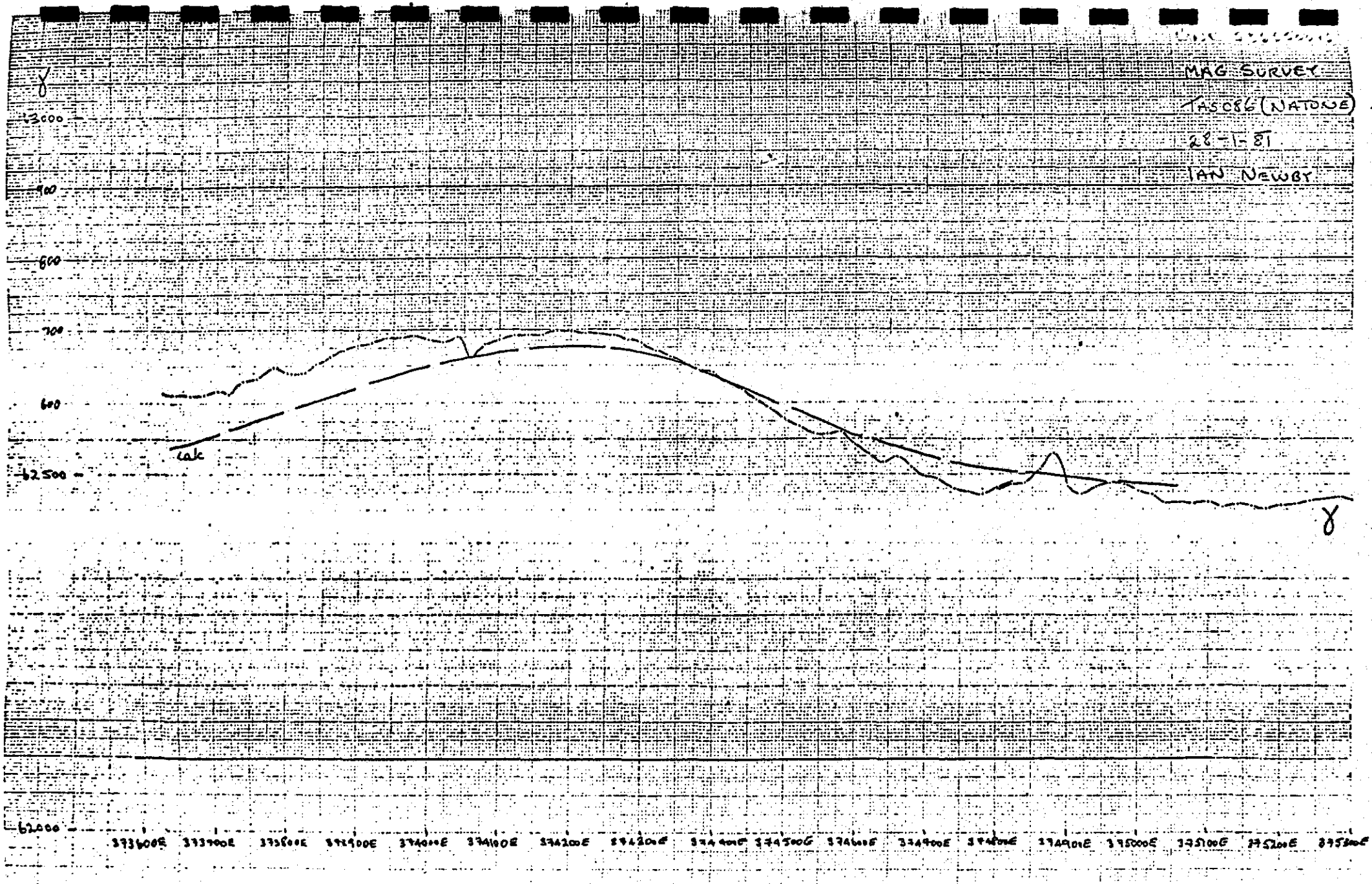

Figure 2

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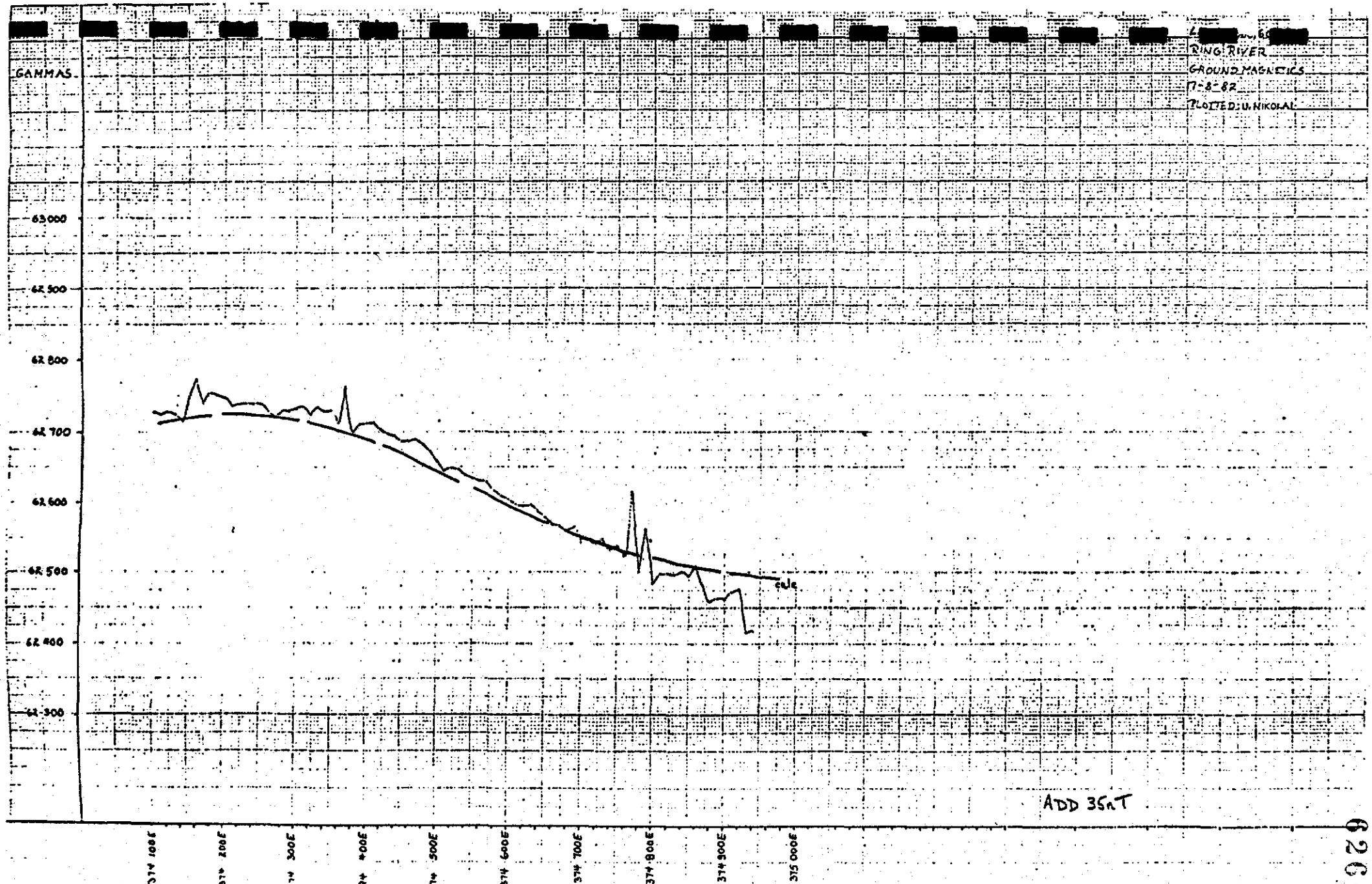

Figure 3

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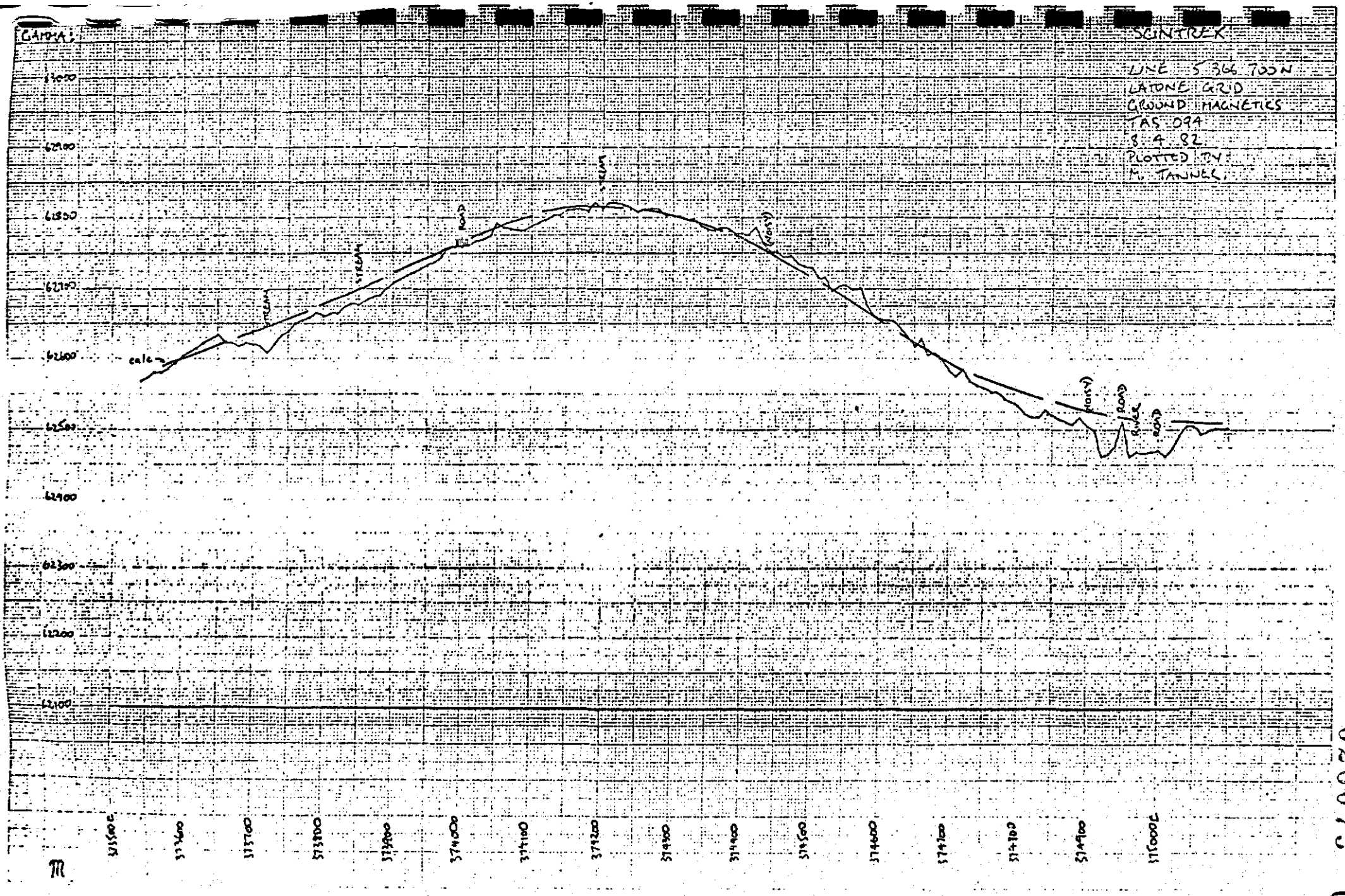

Figure 4

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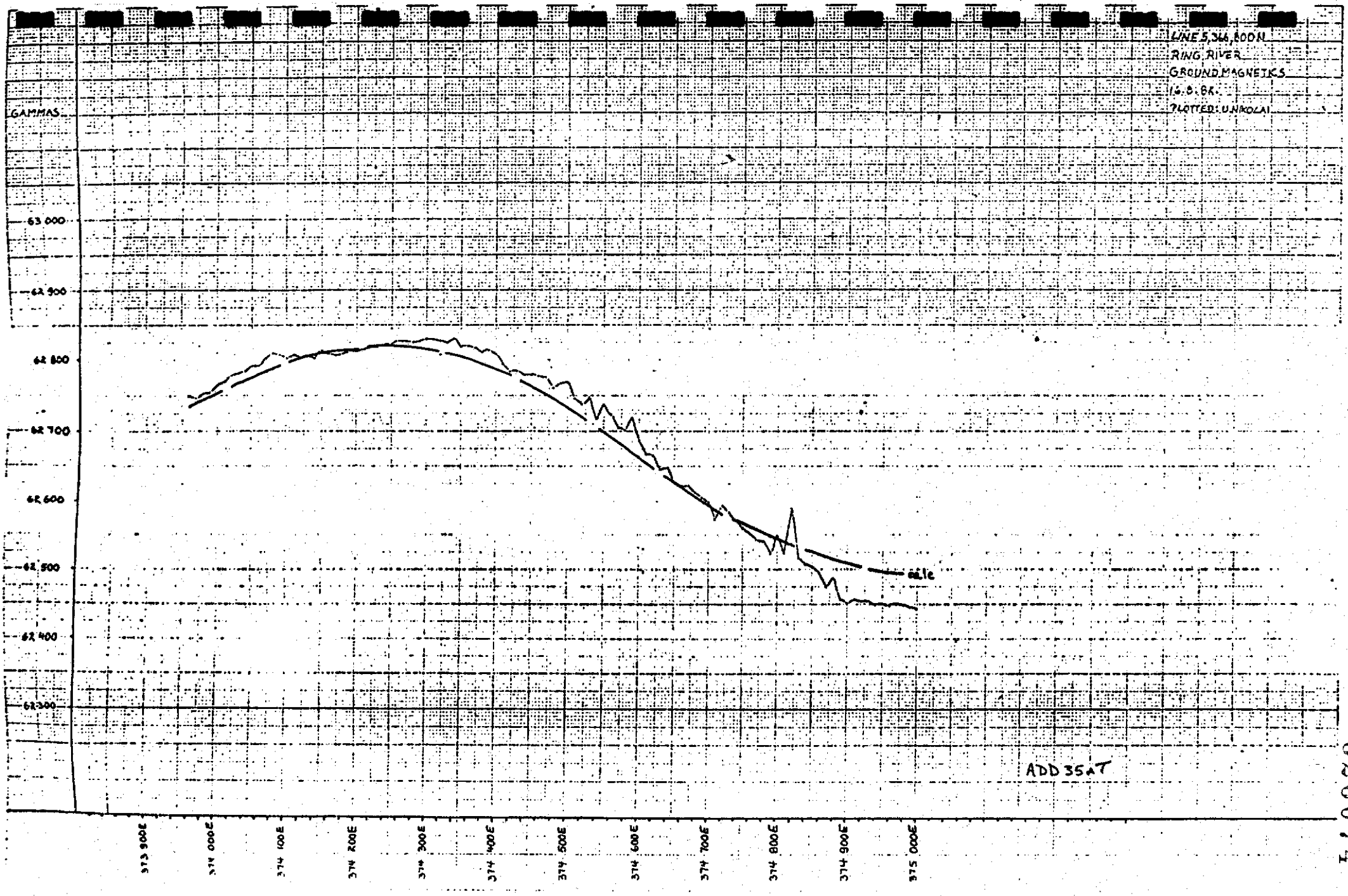

Figure 5

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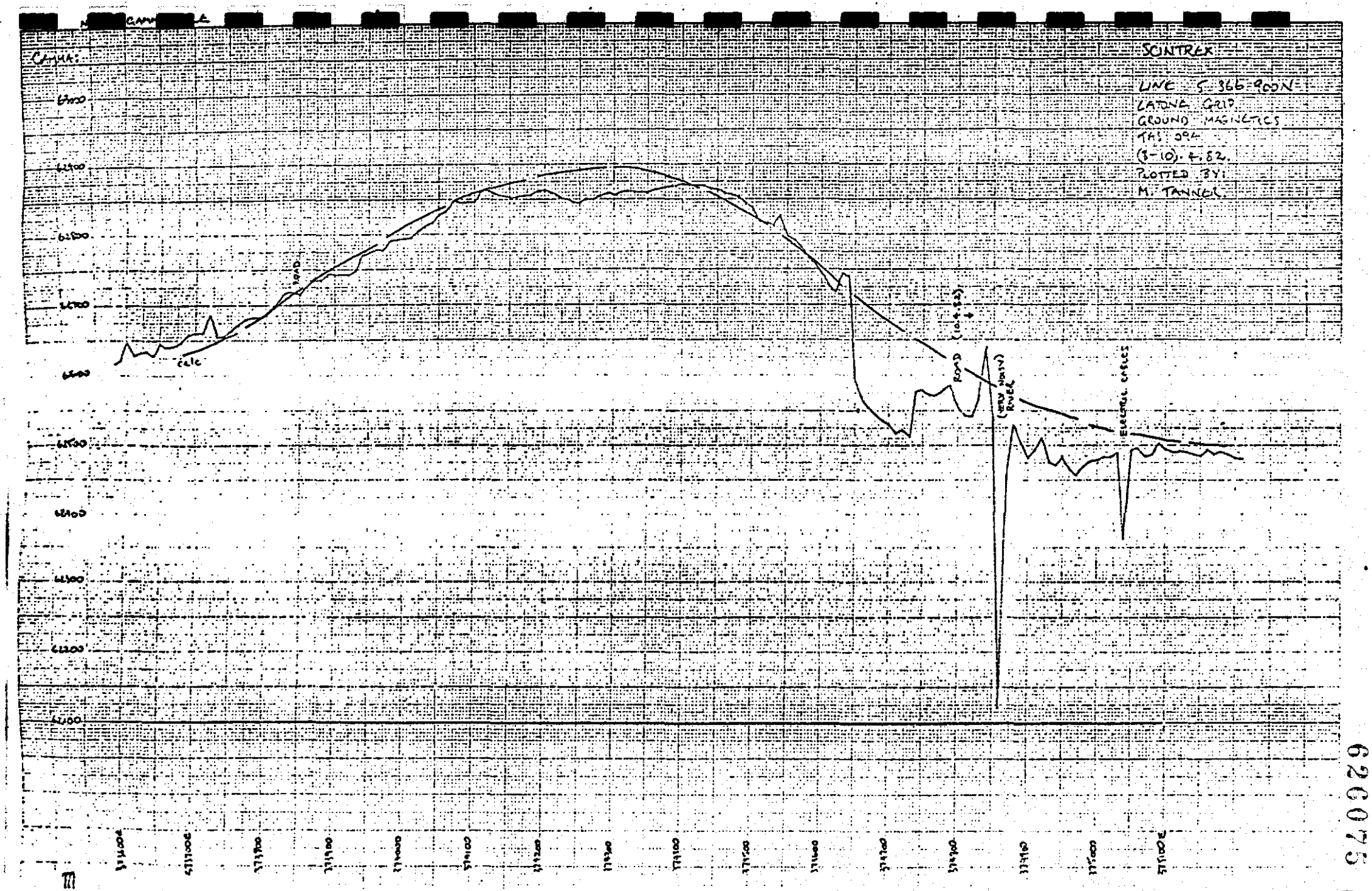

Figure 6

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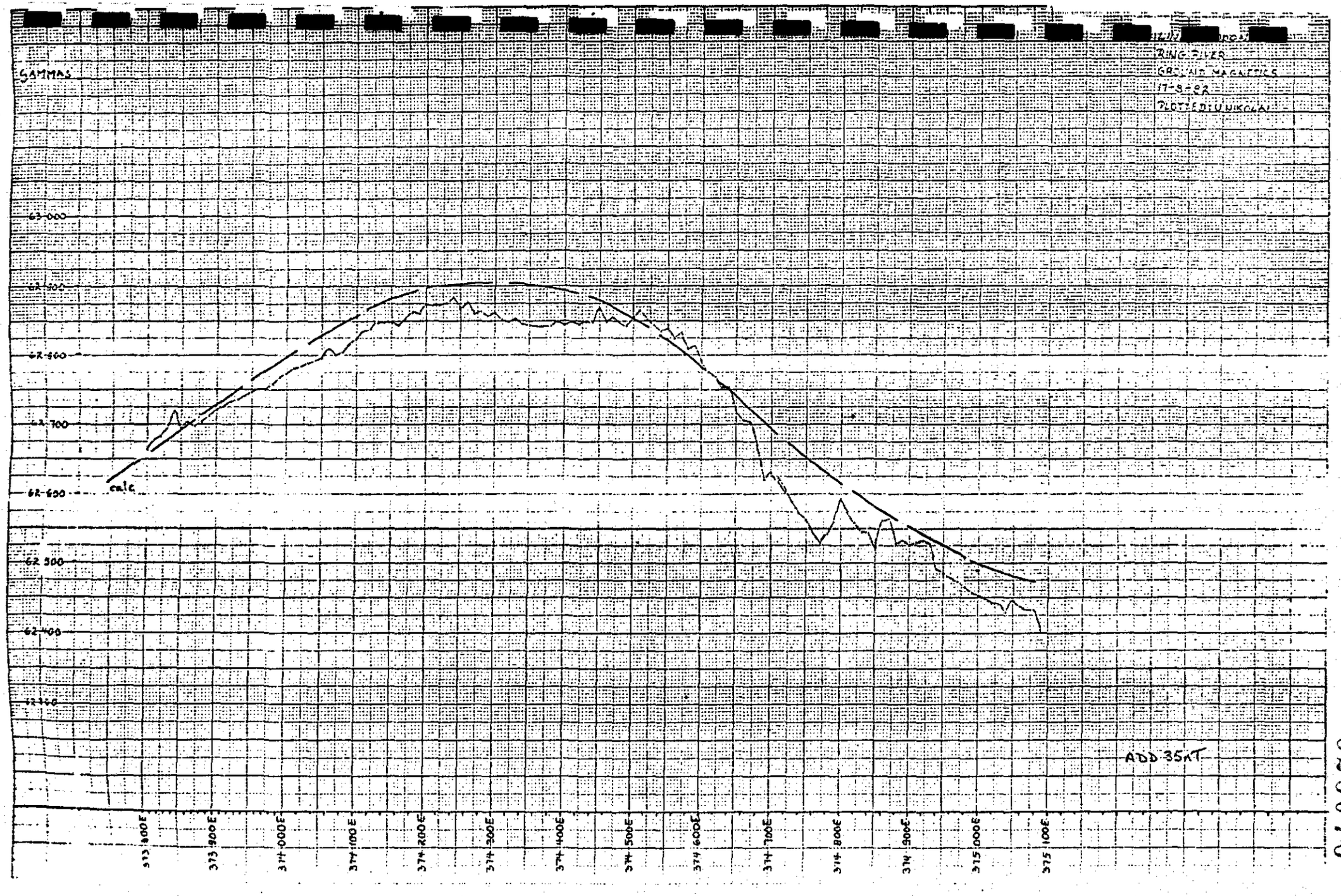

Figure 7

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Figure 8

626075 044

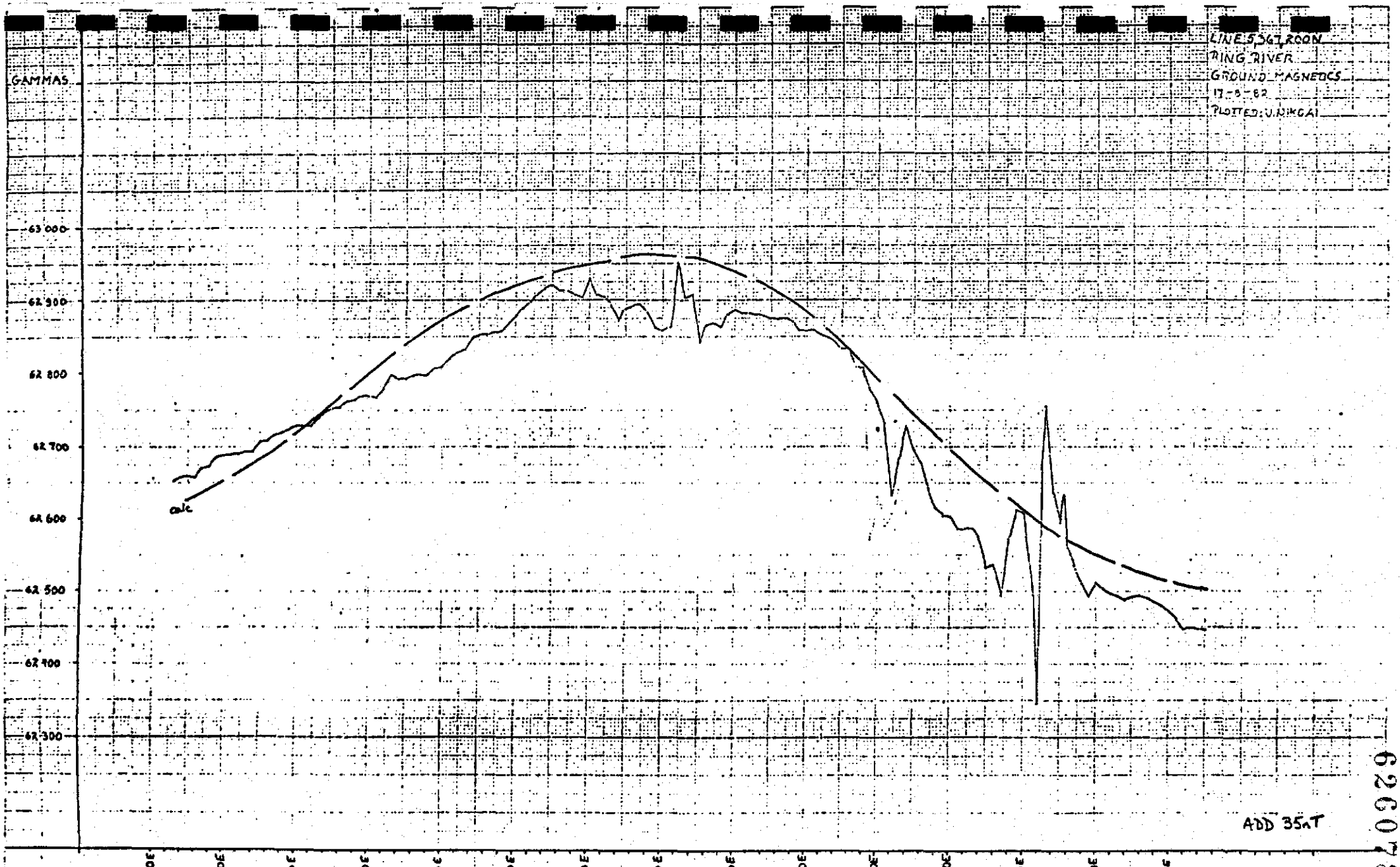


Figure 9

62 0478 045

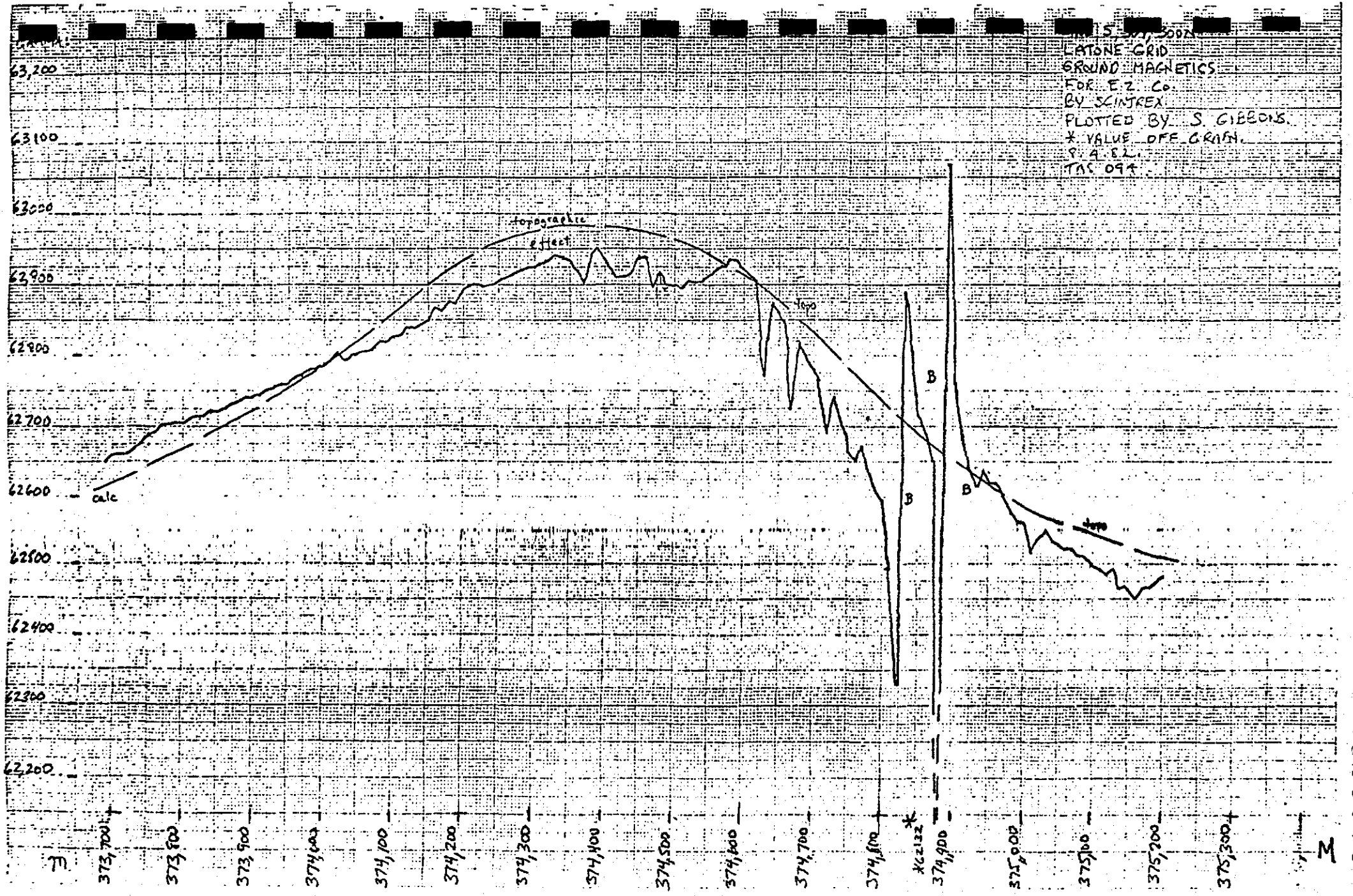


Figure 10

62069
046

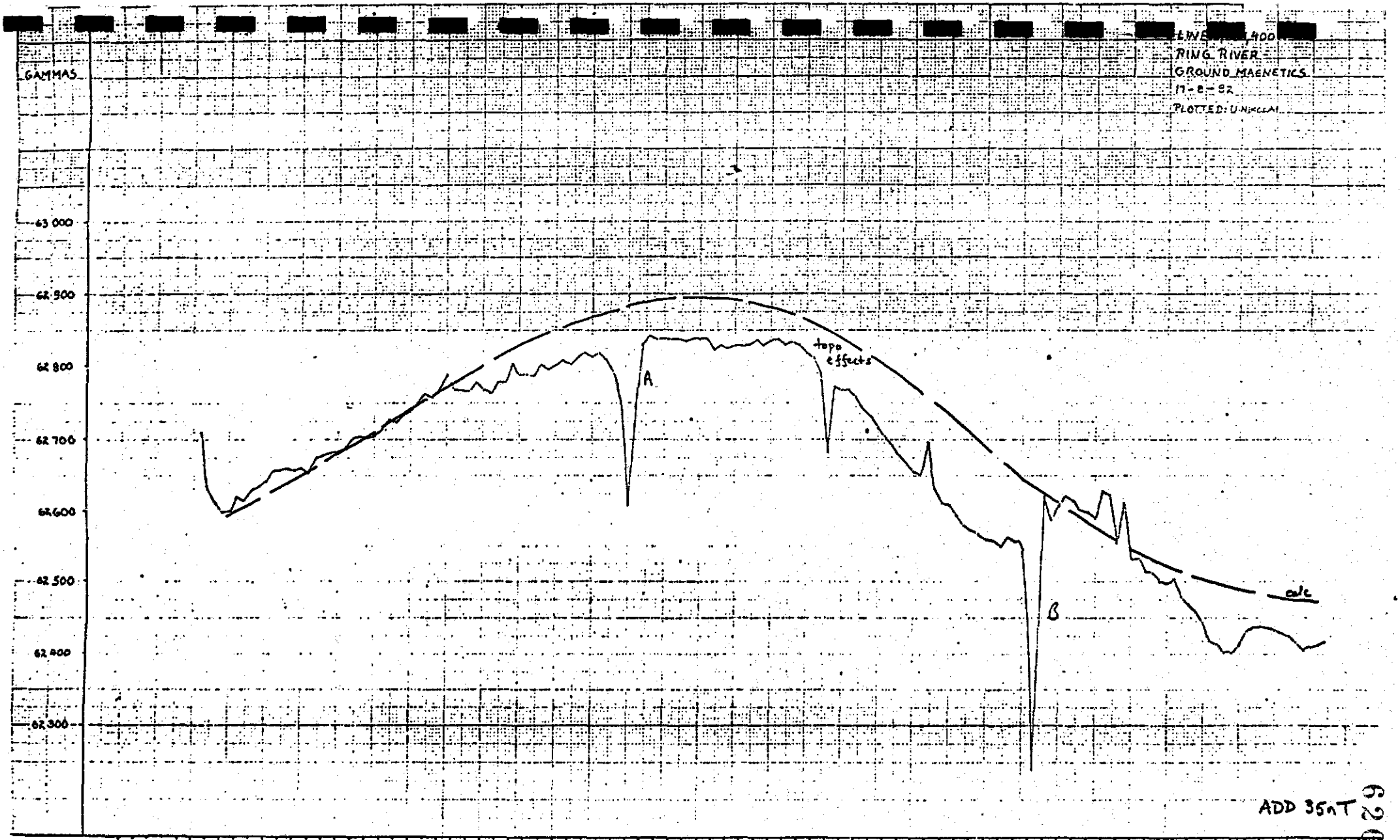


Figure 11

080029 047

LINE 5367500N
MAG SURVEY
TAS 086 (NATONE)
30-1-81
IAN NEWBY

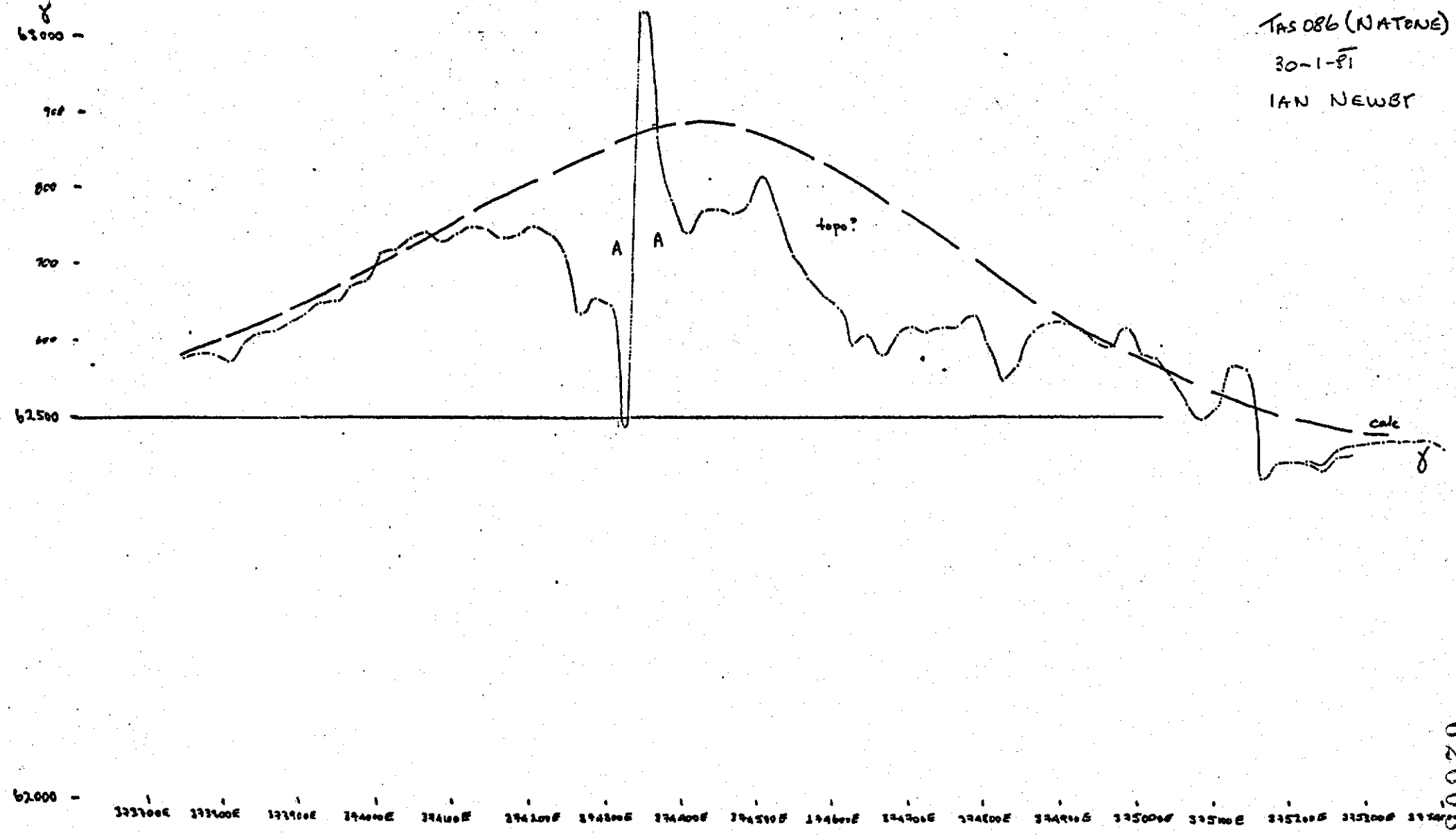
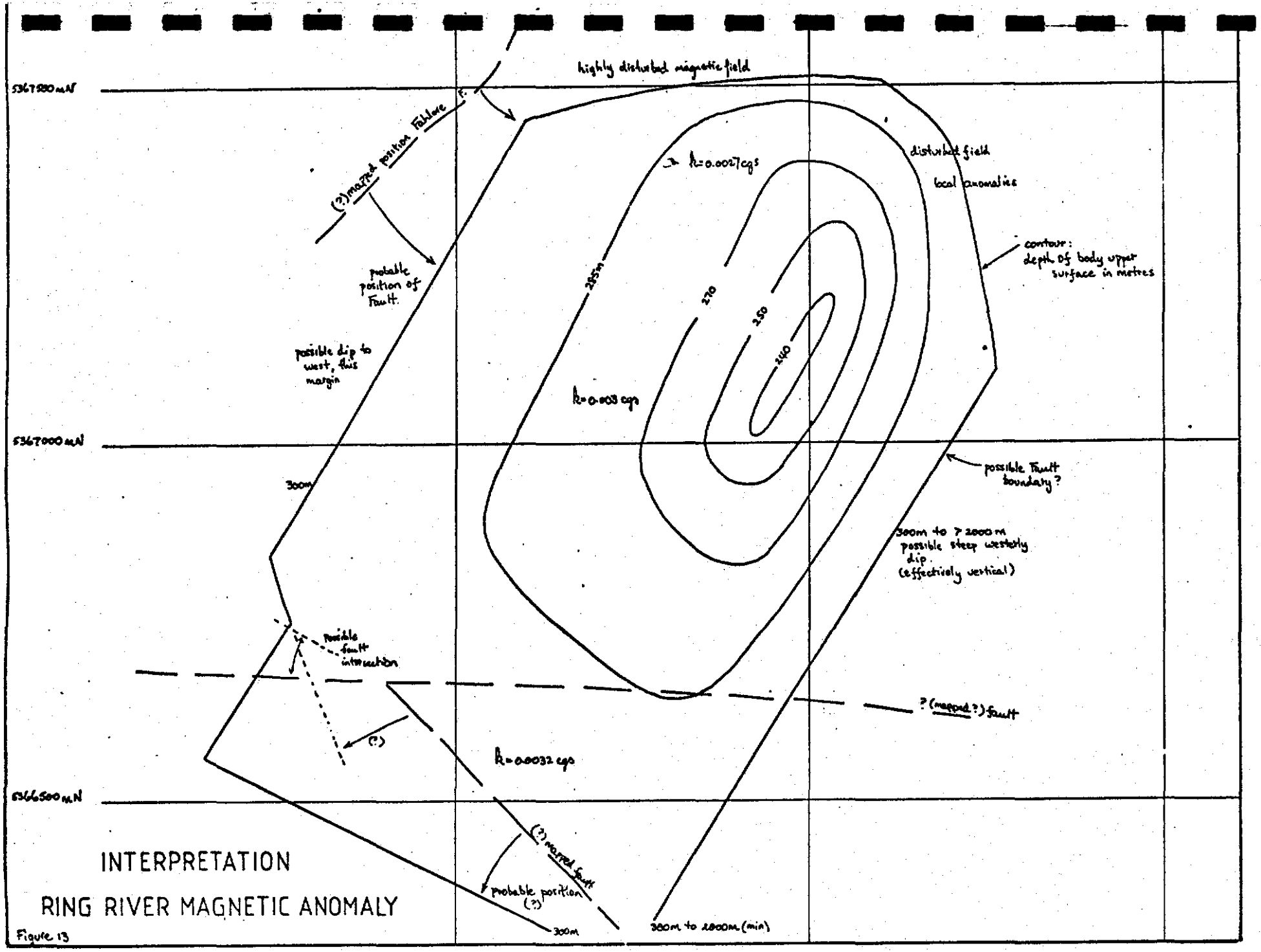
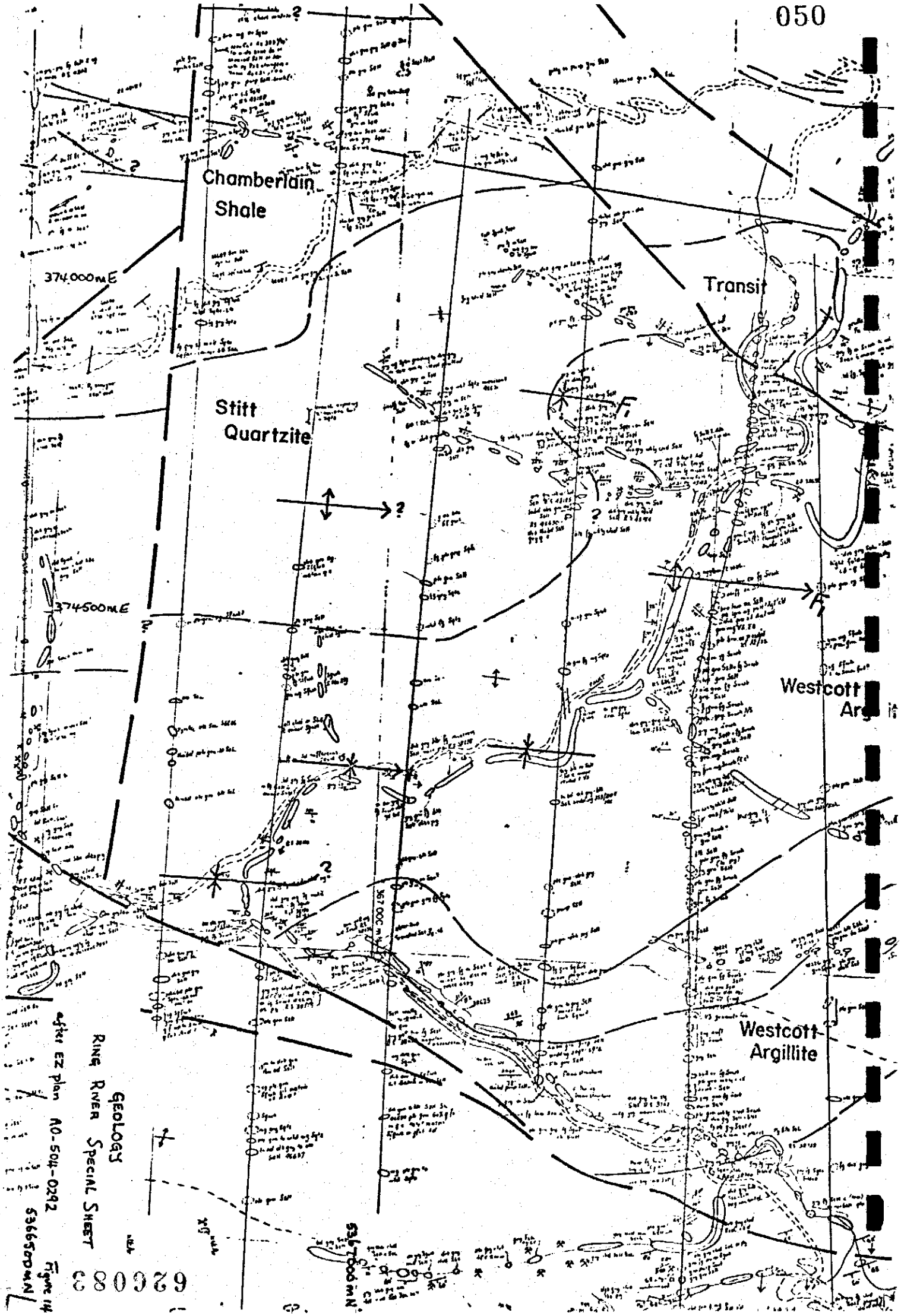


Figure 12

62608 048


highly disturbed magnetic field
5367500mN
(?)mapped position Fabiere
probable position of Fault
possible dip to west, this margin
k=0.0027cgs
disturbed field
local anomalies
contour: depth of body upper surface in metres
285m
270
250
240
k=0.003 cgs
5367000mN
300m
possible Fault boundary?
300m to > 2000m possible steep westerly dip (effectively vertical)
possible fault intersection
(?)
?(mapped?) fault
k=0.0032 cgs
5366500mN
(?) mapped fault
probable position (?)
300m
300m to 2000m (min)
INTERPRETATION
RING RIVER MAGNETIC ANOMALY
Figure 13

6266082 049


Chamberlain
Shale
374000mE
Transit
Stitt
Quartzite
374500mE
Westcott
Westcott
Argillite
GEOLOGY
RING RIVER SPECIAL SHEET
after EZ plan AO-504-0292
Figure 14
5366500mN
5367000mN

626083

APPENDIX C

Drill Logs

DCP 235

CHP 236
CHP 237
CHP 238

} Preliminary copies only

052

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) DCP 235 1 of 9

LOCATION Mt. Black E.L. 1/62 – Dobsons Creek Grid
OBJECTIVE To test a coincident gradient array I.P. anomaly and Pb-Zn soil geochemical anomaly.
RESULT I.P. anomaly is due to pyritic, carbonaceous shale. Geochemistry due to weak sulphides in carbonate veins on a fault plane.

TOTAL DEPTH 161.4m
HOLE SIZE 0–30m NQ; 30–161.4m BQ
COMMENCED 22.2.'82
COMPLETED 20.3.'82
LOGGED BY I.R. McDonald

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.
35m	320°	-46°	)		
77m	324°	-46.5°	) A.M.G.		
119m	327.5°	-45°	)		
161m	331°	-44°	)		

02
ORE DIP. (6-11)
COLLAR DIP. (12-15) -45°
DIRECTION (16-19) 322° AMG
R.L. (20-23) 732m
CO-ORDS. Grid E 5305 2.455S
LOCATION 5,363,466N 376,244E

Depth(m) FROM	Depth(m) TO	ROCK DESCRIPTION	MINERALISATION
0	3.30	No core recovery	0–26 Limonite staining on joints No sulphide textures. 26.0m is approximate base of weak oxidation
3.30	5.00	Grey weakly thin bedded siltstone and minor fine grained volcanicalstic wacke. Bedding at 55° mostly 3.3–4.1m. Variable oxidation outlines possible ?slump breccia texture 4.1 to 5.0m. Cleavage weak; moderate in more shaley fragments at 35°. Core moderately broken.	
5.00	5.85	Grey medium grained reworked lithic, crystal tuff of Acid composition with abundant 0.5mm chloritic shale fragments. Bedding absent. Moderate to strong jointing at 15° & 30°.	
5.85	6.80	Dark grey massive Siltstone. Oxidisation along joint sets gives core a blocky brecciated appearance.	
6.80	8.60	Pale greenish buff, moderately oxidised, medium grained, reworked, lithic, crystal acid tuff, with rolled quartz and feldspar phenocrysts and chloritic shale liths. Contains thin (20mm) interbeds ?or large fragments of grey Siltstone. ?Bedding at 50°	
8.60	10.4	Zone of moderately broken core. Strong jointing at 10° and 40°. ?Interbedded grey siltstone and fine grained reworked acid tuff as per above.	
10.4	13.1	Dominantly medium grained reworked lithic crystal tuff as above with minor siltstone ?interbeds. Weak grading in the tuff suggests up-hole (ie east) facing. Strong jointing still prominant. Sharp lower contact at 45°	

04

SAMPLE No.	9-13 FROM	14-19 TO.	CORE REC'D	ASSAY DATA: Sample Length	20-25 Cu	26-31 Pb	32-37 Zn	38-43 Ag	44-49 Fe%	50-55 Mn	CORE REC'D: RUN	SHORT
											4.3	3.3
A5614G	0	5	1.60	5.0	150	595	1400	2.0	5.15	580	5.17	0.1
615	5.0	5.85	0.85	0.85	140	180	770	0.5	5.50	990	5.5	6.0
616	5.85	6.80	0.95	0.95	115	195	650	0.5	5.75	715	7.1	
617	6.80	8.60	1.65	1.80	75	115	560	1.0	4.75	850	9.1	0.15
618	8.60	10.40	1.80	1.80	105	65	390	0.5	5.95	835	9.2	
619	10.40	13.10	2.70	2.70	110	150	515	0.5	5.15	975	10.7	
A5620	13.10	17.80	4.70	4.70	85	90	420	0.5	5.60	820	11.4	
621	17.80	22.0	4.20	4.20	100	75	375	X	5.70	590	12.0	
622	22.0	25.0	3.0	3.0	105	135	480	0.5	5.90	600	12.15	
623	25.0	28.0	3.0	3.0	100	155	525	1.0	5.60	765	12.75	
624	28.0	30.45	2.10	2.45	80	30	440	X	5.30	1500	13.45	
625	30.45	34.0	3.55	3.55	80	185	700	1.0	4.80	910	14.4	
626	34.0	37.0	3.0	3.0	90	205	540	0.5	4.95	950	16.5	
627	37.0	40.30	3.30	3.30	70	70	280	0.5	5.05	940	18.0	
628	40.30	42.90	2.60	2.60	80	35	150	0.5	5.50	650	19.35	
629	42.90	46.80	3.90	3.90	95	30	220	0.5	5.30	890	20.25	
A5630	46.80	49.10	2.20	2.30	120	40	410	0.5	5.40	970	20.7	
631	49.10	52.80	3.70	3.70	100	285	620	1.0	5.50	970	22.15	
632	52.80	54.30	1.50	1.50	80	2350	2350	2.0	4.80	925	23.1	
633	54.30	57.0	2.70	2.70	90	2050	2350	3.0	2.80	760	24.0	
634G	57.0	60.0	3.0	3.0	75	190	320	1.0	2.90	660	25.75	
											26.55	
A5635S	60.0	61.0	1.0	1.0	70	390	1200	1.0	3.70	1400	27.25	
636	61.0	62.0	1.0	1.0	110	335	735	0.5	2.75	770	30.00	0.35
637	62.0	62.80	0.80	0.80	65	70	170	1.0	3.50	575	30.7	
638	62.80	63.10	0.30	0.30	60	20	150	x	3.50	680	33.1	
639	63.10	63.40	0.30	0.30	60	15	65	x	3.20	890	36.25	
640	63.40	64.0	0.60	0.60	70	85	160	1.0	3.45	725	39.1	
641	64.0	65.0	1.0	1.0	95	135	100	1.5	2.6	550	39.8	
642	65.0	66.0	1.0	1.0	100	80	105	1.5	3.25	1350	41.35	
643	66.0	67.0	1.0	1.0	115	353	700	1.0	2.90	690	41.95	
644	67.0	67.70	0.30	0.70	110	1.45%	2.20%	11.0	2.60	800	44.30	
											46.60	
											47.45	
											48.8	
											49.65	0.1
											52.75	

A 11241

626085

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. DCP 235 2 of 9

A 11241

Depth (m) FROM	Depth (m) TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Cu	26-31 Pb	32-37 Zn	38-43 Ag	44-49 Fe%	50-55 Mn	CORE REC'D RUN	CORE REC'D SHORT
															55.75	
															58.7	
13.1	17.8	Zone of interbedded grey Siltstone, which is variably oxidised to buff clay rich material and fine to medium grained reworked lithic crystal acid tuff as per descriptions above, with intermediate fine grained and fine to medium grained volcaniclastic wacke units between the two end members.		45645G	67.70	68.90	1.20	1.20	40	1600	2150	1.5	4.30	2300	61.45	
				646	68.90	70.75	0.30	1.85	20	390	810	1.0	2.45	970	62.1	
				647	70.75	73.65	2.90	2.90	60	210	260	1.0	3.70	680	65.0	
				648	73.65	76.65	3.0	3.0	85	130	300	1.0	3.70	715	67.7	0.4
				649	76.65	77.05	0.40	0.40	70	145	380	x	2.80	1500	68.4	
				650	77.05	78.40	1.35	1.35	110	390	760	1.0	3.10	550	69.05	0.1
				651	78.40	79.10	0.70	0.70	85	150	330	0.5	2.00	360	70.75	1.45
				652	79.10	83.0	3.90	3.90	35	400	670	0.5	2.00	590	73.9	
				653	83.0	87.0	4.0	4.0	40	190	540	x	1.50	330	77.0	
				654	87.0	87.65	0.65	0.65	10	540	1400	1.0	1.50	800	80.0	
				655	87.65	90.70	3.05	3.05	30	1100	1650	0.5	1.25	570	83.0	
				656	90.70	94.20	3.40	3.50	30	395	1200	0.5	3.50	455	86.0	
				657	94.20	97.70	3.50	3.50	25	280	950	x	1.10	450	89.0	
				658	97.70	99.0	1.20	1.30	15	280	1200	x	1.50	430	92.0	
				659	99.0	101.0	2.10	2.10	140	195	640	0.5	1.30	515	93.5	0.1
				45660	101.1	101.90	0.80	0.80	200	145	640	x	2.90	1150	96.7	
				661	101.90	105.0	3.10	3.10	130	95	380	x	1.30	380	98.0	
				662	105.0	108.0	3.0	3.0	110	80	300	x	1.75	440	98.65	0.1
				663	108.0	110.50	2.50	2.50	70	40	170	x	1.95	450	102.0	
				664	110.50	113.20	2.70	2.70	60	90	285	x	1.90	490	105	
				665	113.2	115.0	1.80	1.80	80	50	205	x	1.55	420	107	
				666	115.0	118.25	3.25	3.25	40	55	150	x	1.85	470	110	
				667	118.25	119.20	0.95	0.95	50	660	945	1.0	2.80	630	113	
17.8	28.0	Dominantly grey, variably oxidised, generally massive, siltstone with minor thin fine grained volcanic wacke bands increasing towards the base. Weak bedding at 55° Lower contact slightly diffuse at 40°		668	119.20	120.60	1.40	1.40	30	570	690	1.0	2.65	950	115.6	
				669	120.60	121.25	0.65	0.65	45	825	1450	1.0	2.25	480	118.7	
				45670G	121.25	124.90	3.20	3.65	35	445	1150	x	1.90	700	121.75	
				45671S	124.90	125.20	0.30	0.30	100	435	840	x	3.35	1800	124.9	0.45
				672	125.20	125.75	0.55	0.55	100	330	345	1.5	2.30	3150	125.7	
				673	125.75	126.0	0.25	0.25	60	1250	2200	2.5	3.05	1750	128.0	
28.0	40.3	Interbedded grey massive siltstone and grey fine to medium grained reworked crystal lithic tuff with feldspar phenocrysts, white rhyolitic liths and chloritic shaley liths. Gradational between the main members are minor amounts of fine grained and fine to medium grained volcanic wacke.	Irregular traces of fine grained disseminated pyrite and rare pyrite smeared on joint faces. Many joint faces are limonite stained.	674	126.0	126.90	0.90	0.90	65	265	1000	0.5	2.45	590	129.15	
				675	126.90	127.15	0.25	0.25	20	1000	1550	1.0	1.50	500	130.0	
				676	127.15	127.75	0.60	0.60	x	225	320	x	0.92	250	133.0	
				677	127.75	128.15	0.40	0.40	x	585	1650	1.5	0.99	810	134.0	
															137.0	
															140.0	
															143	0.55
															143.85	
															147	
															150.1	
															151.2	
															153.7	
															156.5	

28.0 – 29.85 Graded unit, east facing. Lower contact 35°

29.85 – 30.15 Graded unit, east facing. Lower contact 25°

30.15 – 30.45 Graded unit, east facing. Lower contact irregular

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. DCP 235 3 of 9

A 11241

Depth (m) FROM	Depth (m) TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Cu	26-31 Pb	32-37 Zn	38-43 Ag	44-49 Fe%	50-55 Mn	CORE REC'D: RUN	CORE REC'D: SHORT
				A5678G	128.15	129.60	1.45	1.45	x	320	775	1.0	0.84	575		
		33.05–33.35 Graded unit, east facing. Lower contact 45°		679	129.60	132.30	2.70	2.70	x	450	845	0.5	0.76	840	159.3	
		33.35–34.0 Graded unit, east facing, lower contact 40°		680	132.30	133.25	0.95	0.95	x	660	1250	x	0.82	345	161.0	
		Lower contact diffuse.		681	133.25	136.00	2.75	2.75	25	600	1800	0.5	0.76	300	161.4	
				682	136.00	138.70	2.70	2.70	35	615	1300	x	0.79	260		
				683	138.70	139.30	0.60	0.60	45	540	1150	0.5	0.99	280		
				684	139.30	142.0	2.35	2.70	15	435	765	x	0.96	260		
40.3	42.9	Dark grey weakly bedded siltstone with rare thin carbonate rich bands and thin carbonate veinlets. Bedding 45°. Incipient cleavage 10°. Lower contact gradational	Trace to 1% disseminated fine grained pyrite	685	142.00	143.90	1.70	1.90	60	200	500	x	0.94	360		
				686	143.90	145.80	1.90	1.90	70	35	185	x	0.93	230		
				687	145.80	146.75	0.95	0.95	20	35	170	x	1.60	425		
				688	146.75	149.00	2.25	2.25	10	35	100	x	1.95	670		
				689	149.00	151.20	2.20	2.20	15	20	85	x	2.10	510		
42.9	52.8	Interbedded grey siltstone, fine grained volcaniclastic wacke and fine to medium grained reworked crystal lithic tuff as above, with rare thin carbonate veinlets		A5690	151.20	155.00	3.80	3.80	25	25	590	x	2.25	785		
				691	155.00	158.00	3.00	3.00	25	45	150	x	2.30	695		
				692	158.00	161.40	3.40	3.40	10	35	110	x	2.20	440		
		44.75–45.3 Graded unit, east facing, lower contact 35°														
		46.8–49.1 Core moderate to strongly broken.	46.8–49.1 Weak limonite staining on joint faces.													
		49.1–52.8 Units more regularly interbedded, 4 graded units, all indicate east facing.														
		Lower contact diffuse 30°														
52.8	54.3	Thinly interbedded grey and dark grey siltstones. Bedding 35°. Incipient cleavage 5°, rare carbonate veins or ?bands parallel bedding.	Rare thin carb veins carry up to 30% fine grained disseminated pyrite. Total sulphide less than 1%.													
54.3	60.0	Dark grey to black siltstone with thin (2–5mm) carbonate rich bands. Bedding 25° *Incipient cleavage subparallel to core*	1–2% Pyrite overall, associated with carbonate veins. Up to *40% pyrite in 2mm veins.*													
		57.1–57.2 Thicker pale grey carbonate rich band.														
		Lower contact ?healed breccia with carbonate veins and clots.	59.9–60 5% fg disseminated pyrite in zone of strong carbonate veins and clots.													
60.0	62.8	Black Siltstone possibly carbonaceous with thin carbonate veinlets and bands. Weak bedding 30°. Weak cleavage 10°. Lower contact gradational	60–63.4 Fine grained disseminated pyrite in carbonate veins and as trace trails along the cleavage. Total sulphides													

62.08

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. DCP 235 4 of 9

A 11241

Depth (m) FROM	Depth (m) TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
		61.1 Sample No. 35191 for thin section.	about 3%. Some pyrite rich bands appear to be graded with coarser pyrite grains at the base.														
62.8	63.1	Grey massive Siltstone. Lower contact gradational															
63.1	63.4	Grey, fine to medium grained, reworked crystal lithic acid tuff, coarsening to the base. Feldspar crystals, white rhyolitic liths, and dark green chloritic shaley liths. Lower contact 15°															
63.4	64.0	Dark grey bedded Siltstone. Bedding 35°. Thin carbonate veinlets increase towards the base. Lower contact gradational	5% fine grained disseminated pyrite in the bedding.														
64.0	67.7	Black Siltstone with thin carbonate veinlets as per 60-62.8m 65.15-65.25 White quartz vein at about 40° Core broken. Lower contact broken core. Only 0.3m of chips recovered from 67.0-67.7m	2-3% disseminated fine grained pyrite and disseminated pyrite in carbonate veins.														
67.7	68.9	Zone of very broken core composed dominantly of grey fine grained reworked crystal lithic acid tuff, and fine to medium grained volcaniclastic wacke 68-68.1 White quartz vein.															
68.90	76.65	Black and minor dark grey siltstone with rare thin carbonate veins and bands parallel to the bedding at 40°. Major core loss between 69.05 and 70.75 may have been a zone of carbonate veins as some chips are strongly carbonate veined. Lower contact sharp 45°	1-2% fine grained disseminated pyrite, mostly associated with carbonate bands where it is up to 25% of a band.														
76.65	77.05	Grey, fine to medium grained, reworked crystal lithic tuff acid. White rhyolitic liths, green chloritic shaley liths quartz & feldspar crystals. Lower contact 50°	Trace fine grained disseminated pyrite.														

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ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. DCP 235 5 of 9

A 11241

Depth (m) FROM	TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D RUN	SHORT
77.05	78.40	Grey and dark grey Siltstone. Thin carbonate veins lie along the bedding at 45° Grey units are weakly silicified. Lower contact gradational	Pyrite approximately 1% total as thin (0.5mm) bands in the bedding														
78.40	79.10	Grey bedded fine grained crystal vitric acid tuff. Feldspar crystals up to 0.5mm in a silicified matrix. Bedding 50°. Lower contact gradational	1% pyrite on joint surfaces and in very fine veins.														
79.10	87.00	Pale grey very fine grained massive vitric tuff. Strongly silicified 79.25-79.45 Irregular band of coarse grained feldspar crystals & rhyolitic lithic fragments. 80.2-80.4 Zone of microfaulting & weak breccia. A small fault plane at 15° has a dextral movement 83.0 Sample No. 35192 for thin section Lower contact is diffuse through a zone of very strongly silicified breccia.															
87.00	87.65	White/grey, medium grained, reworked, lithic ?dacite tuff. Rounded and elongate liths up to 5mm long are very feldspar rich. Lower contact is irregular about 55° with quartz carbonate veins and weak brecciation.															
87.65	101.1	Pale grey, massive, very fine grained, crystal vitric acid tuff. Silicification slightly variable but generally strong Thin carbonate veins, up to 3mm thick, in several orientations have an average density about 1 per 80mm. 97.7-99.0 Zone of very broken core Lower contact 35° at the base of a 0.5m zone of slightly increasing grainsize.															

626089

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. DCP 235 6 of 9

A 11241

Depth (m) FROM	Depth (m) TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
101.1	101.9	Greenish grey fine to medium grained, lithic crystal acid tuff. Feldspar crystals & small shaley lithic fragments. Lower contact gradational – shale liths gradually dissappear.															
101.9	110.5	Pale greenish-grey fine grained massive vitric crystal acid tuff. Lower contact a very gradational change into the next units 104.0 Sample No. 35193 for thin section	**Trace fine grained disseminated pyrite**														
110.5	118.25	Grey, mottled, medium and medium-coarse grained, porphyritic lithic acid tuff. Weakly silicified with weak irregular chloritisation. Vague ?collapsed pumice textures suggest ash-flow origin. 112.8 Siltstone fragment 80mm long 113.2 Siltstone fragment 100mm long 114.9–115.0 Band of fine grained lithic crystal tuff as per 101.1 to 101.9. Both contact 55° but may only be large lithic fragment. Lower contact 25°															
118.25	119.20	Grey fine to medium grained lithic crystal tuff as per 101.1 to 101.9 Lower contact 35°															
119.20	120.60	White/grey medium to coarse grained porphyritic, crystal lithic acid tuff. Coarse liths of white rhyolite and dark grey siltstone. Moderately silicified Weak alignment of larger liths defines a weak foliation at 30°. Lower contact sharp 30°															
120.60	121.25	Pale grey, very fine grained, bedded vitric acid tuff or volcaniclastic siltstone. Moderately to strongly silicified. Bedding 35° 121.06–121.12 Band of medium grained lithic tuff Lower contact sharp but irregular about 40°															

626090

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. DCP 235 7 of 9

A 11243

Depth (m) FROM	TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D RUN	SHORT
121.25	124.9	White/grey medium to coarse grained porphyritic, crystal lithic, ?ashflow tuff, with coarse rhyolite and siltstone liths. Some bands of siltstone occur at consistent core angles. These may be interbeds but more probably are large lithic fragments or rafts. 121.9-121.96 Siltstone band at 40° 122.2-122.3 " " 65° 122.4-122.5 " " 45° Lower contact lost in a zone of broken core and poor recovery. Most of 124.45 to 124.9 is lost core															
124.9	125.2	White massive quartz vein															
125.2	125.75	?Fault zone. Broken core made up of white quartz vein and inclusions of black pyritic Siltstone	2-3% fine grained disseminated pyrite in the siltstone fragments.														
125.75	126.0	Grey, fine to medium grained, massive, crystal lithic acid tuff with feldspar crystals, small rhyolitic liths and small shaley liths.	2-3% fine grained disseminated pyrite plus 1% fine grained brown sphalerite in rare thin carbonate veins.														
126.0	126.9	Dark grey, weakly bedded siltstone. Bedding at 45° 126.35-126.5 Band of medium to coarse grained lithic tuff as per 121.25-124.9. Contacts irregular.	5% fine grained disseminated pyrite mainly in the bedding planes.														
126.90	127.15	Grey fine to medium grained crystal lithic tuff as per 125.75 to 126.0. Lower contact irregular about 65°	3% fine grained disseminated pyrite.														
127.15	127.75	Grey and pale grey strongly silicified siltstone. Lower contact gradational	1% fine to medium grained patchy disseminated pyrite.														
127.75	128.15	Pale grey to cream strongly silicified and moderately sericitised vitric, crystal, lithic, acid tuff. Rhyolitic and siltstone liths occur up to 5mm long Lower contact gradational															

62609.1

059

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. DCP 235 8 of 9

A 11241

Depth (m) FROM	Depth (m) TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
128.15	129.6	Essentially the same rock as above but with a strong pink ?K-feldspar? alteration and weak limonite staining. The unit is strongly jointed with much broken core. 128.6–129.0 Dark grey very fine grained vitric tuff with quartz and K-feldspar veins. Lower contact gradational	Weak limonite staining.														
129.6	132.3	Pale grey to cream, fine grained, strongly silicified lithic tuff. ?Liths are all strongly silicified. Textures almost obliterated.															
132.3	133.25	Cream totally silicified rock. Almost all secondary quartz. Vague relict textures suggest it is a lithic tuff as above. Contacts gradational.															
133.25	146.75	Pale grey to cream, mottled, fine grained strongly silicified lithic tuff. White volcanic liths are almost totally silicified. Rare ?shale liths. Rare thin carbonate veins occur filling small fractures. 138.7–139.3 Zone of broken vuggy core with limonite staining 143.9–145.8 Increasing large (up to 8mm) shale liths 145.9–146.75 Decreasing silicification Core has more granular texture possibly indicating ?reworked tuff Lower contact gradational	Rare fine grained pyrite associated with carbonate veins frequently oxidised to limonitic stain. Limonite possibly after pyrite about 2%														
146.75	151.2	Pink and grey-green mottled fine to medium grained massive crystal lithic tuff Weakly silicified. Pink colour due to ?K-feldspar? alteration. Contacts gradational 149.9 Sample No. 35194 for thin section															

623092

060

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. DCP 235 9 of 9

A 11241

Depth (m) FROM	Depth (m) TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
151.2	161.4	Grey-green, fine to medium grained, porphyritic crystal lithic acid tuff. Moderately silicified and weakly chloritised with thin chloritic veinlets. 157.8 Sample No. 35195 for thin section															
	EOH	END OF HOLE 161.4m															
		For Thin Section Descriptions of Samples 35191 – 61.1m 35192 – 83.0m 35193 – 104.0m 35194 – 149.9m 35195 – 157.8m refer to C.M.S. Report No. 82/4/41															

626093

061

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

01 HOLE No. (1-7) CHP 236

LOCATION Colebrook Hill
OBJECTIVE To test a magnetic anomaly in the vicinity of known tin mineralization
RESULT

TOTAL DEPTH 119.00
HOLE SIZE HQ 15.0 NQ 360.0
COMMENCED 22-10-82
COMPLETED 29.10.82
LOGGED BY MAT

03

8-12 Footage	13-16 Direction	17-18-21 Dip.	8-12 Footage	13-16 Direction	17-18-21 Dip.
41m	287	48			
77	288	43½			
119	288	41			

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 48°
DIRECTION (16-19) 290 A.M.G.
R.L. (20-23)
CO-ORDS.
LOCATION

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION
0	15.0	Non core drilling	
15.0	19.5	Oxidized, yellow brown, medium grained volcanic wacke - rubbly and clayey in places.	
19.5	22.9	Partially oxidized, yellow brown to dark grey, fine grained volcanic wacke with some siltstone beds c.b.a. 40°	
22.9	26.0	Partially oxidized, yellow brown to dark grey, medium-coarse grained volcanic wacke with numerous lithic fragments to 1cm	Minor disseminated pyrrhotite and thin pyrite coatings on fracture surfaces
26.0	28.5	Dark grey, thin bedded siltstone and fine-medium grained volcanic arenite. Graded bedding and reversed fining down hole (west) facing. c.b.a.	Thin heavy mineral concentrations at base of some arenite beds

SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT

626094

A 11241

062

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 236

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
28.5	36.0	Dark grey, fine to medium grained volcanic rocks with rare thin siltstone beds. Siltstone fragments to 2 mm in coarser units. Some thin irregular quartz-carbonate veining	Very minor pyrrhotite in narrow breccia zone at 29.3 - sheeted with quartz-carbonate														
36.0	40.1	Dark grey, fine to medium grained volcanic arenite with some siltstone beds. Arenites contain numerous pale green lithic fragments 2-4 mm. Scattered, irregular quartz carbonate veins. Core broken and oxidized around 37.0															
40.1	43.7	Dark grey medium grained volcanic arenite with lithic fragments as above. Some laminated siltstone. Core brecciated and sheeted with 5 cm quartz at 40.2, 40.5, 40.7 and 42.1 c to a 40°															
43.7	46.3	Dark grey siltstone and fine grained volcanic arenite. Irregular quartz veining	1cm quartz + chalcopyrite 45.3 2cm bleached quartz + pyrite + arsenopyrite at 45.4														

6226095

063

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 236

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag-g/t	44-49 Au-g/t	50-55 Fe%	CORE REC'D: RUN	SHORT
46.3	50.9	Green grey, brecciated, sericitized and chloritized volcanic wacke and siltstone. Patches and veins 1-2cm thick of quartz and quartz carbonate. Small patch of ? andesite at 48.0.														
50.9	55.7	Dark green grey, medium grained volcanic wacke and some siltstone beds. Coarser beds are magnetic & contain pale green and black lithic fragments 1-2mm l/irregular. Thin quartz chlorite veins common. 5cm quartz at 53.0 and 55.0														
55.7	60.6	Green grey interbedded siltstone and fine grained volcanic wacke. Siltstone units often brecciated and sericitized with chlorite or quartz + chlorite	Very minor pyrrhotite associated with chlorite													
60.6	71.0	Dark green grey medium grained volcanic arenite with some siltstone beds. Siltstones often disrupted by neat arenite bed. Arenites becoming better sorted and more rounded. Some irregular quartz veins														

62606

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 236

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
71.0	76.0	Purplish grey and volcanic wacke with thin siltstone beds - average 40cm apart. Irregular thin quartz and quartz-chlorite veins. Grading indicates down hole facing ca 40°	Minor pyrite and trace pyrite associated with quartz chlorite veinlets														
76.0	83.0	Dark grey to green grey volcanic arenite with several siltstone beds. Siltstone fragments to 10mm common in arenites. Scours and fill give good west facing															
83.0	91.7	Green grey and dark grey fine to coarse grained volcanic wacke and siltstone - cycles 20-50cm. Siltstones often ripped up with fragments in overlying wacke. Some quartz and quartz-chlorite veins. Minor fault breccias healed with quartz at 87.0 and 87.5	Minor disseminated pyrite and trace chalcopyrite associated with chlorite														
91.7	97.1	Green grey volcanic wacke and siltstone - often brecciated and healed by chlorite and quartz. Irregular thin quartz and chlorite veins	Minor pyrite and trace chalcopyrite associated with quartz and chlorite														

60969

065

5

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 236

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
97.1	100.7	Dark grey fine to coarse volcanic wacke, arenite and siltstone. Siltstones often ripped up & included in overlying bed. One disrupted pale brown chert bed. cba 40-45	Very minor pyrite in chlorite veinlets.														
100.7	105.5	~~Dark~~ Predominantly siltstones but some arenite and wacke as above. Some thin quartz veins with chloritic selvages															
105.5	110.0	Dark grey medium to coarse volcanic wacke and siltstone. Narrow zones of brecciation and quartz veining at 106.5, 107.2, 107.5 and 109.9	Several 10 mm euhedral pyrite at 107.2														
110.0	111.9	Generally disrupted and brecciated dark green-grey siltstones and minor volcanic wacke. Breccia healed by quartz veining.	Trace pyrite														
111.9	115.9	Dark grey fine grained volcanic wacke and disrupted siltstone ~~from~~ Irregular quartz veins and veinlets	Minor pyrite and trace chalcopyrite associated with quartz 1cm quartz and minor chalcopyrite at 115.4														

626098

066

6

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY — TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP236

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
115·9	117·8	Dark grey, fine grained volcanic wacke and disrupted siltstone. 20 cm breccia with quartz at 117·6 cl-a 30°	Minor pyrite and trace chalcopyrite associated with quartz veins and veinlets														
117·8	119·0	Dark purplish grey fine to medium grained volcanic wacke. Common irregular, cross cutting quartz veinlets cl-a 35°	Minor pyrite in quartz veins at 118·0.														
EOH																	

6260099

067

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

01 HOLE No. (1-7) CHP 237

LOCATION Colebrook Hill
OBJECTIVE To test a magnetic anomaly occurring east of main serpentinite outcrop
RESULT Magnetic anomaly due to serpentinite

TOTAL DEPTH 122m
HOLE SIZE HQ 15 NQ 47 BQ
COMMENCED 30.10.82
COMPLETED 6.11.82
LOGGED BY MAT

03

8-12 Footage	13-16 Direction	17-18-21 Dip.	8-12 Footage	13-16 Direction	17-18-21 Dip.
62	?278AMG	60.5			
122	?285AMG	61			

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 58°
DIRECTION (16-19) 270 AMG
R.L. (20-23)
CO-ORDS.
LOCATION

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION
0	15.0	Non core drilling	
15.0	26.0	Rubbly, oxidized, pale brown medium grained volcanic wacke and minor siltstone.	
26.0	31.0	Oxidized reddish brown medium grained volcanic wacke and siltstone	
31.0	32.5	Oxidized grey and pale brown siltstone - sheared and brecciated in places c/a 60°	
32.5	41.0	Brown and yellow talcose clay - some massive talc	
41.0	44.0	Oxidized and leached talc-silica alteration of serpentinite	
44.0	47.0	No recovery - ? as above	
47.0	50.6	Partially oxidized and brecciated and reheated serpentinite (weakly magnetic)	

04

SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D RUN	CORE REC'D SHORT

623100

A 11241

068

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 237

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
50.6	52.5	Yellow green clay = altered serpentinite															
52.5	53.5	Pale yellow green porcellanous serpentinite with no regular shearing direction. Weakly magnetic															
53.5	64.0	Medium granular apple green serpentinite with disseminated euhedral magnetite and veinlets of fibrous magnetite															
64.0	74.0	Porcellanous apple green intensely sheared serpentinite. Disseminated and veinlet magnetite															
74.0	83.8	Black and apple green, very magnetic, sheared porcellanous serpentinite. Irregular asbestos veins - cross fibre.															
83.8	84.3	Pinkish white altered granophyre - fine grained quartz + feldspar with chloritized ?hornblende. Contacts with thin zones of altered serpentinite are very irregular and suggest assimilation of serpentinite by granophyre															

626101

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 237

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	6-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag · g/t	44-49 Au · g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
92·5	93·5	Medium granular, sheared, olive green and black serpentinite. very magnetic with irregular magnetite veins															
93·5	95·0	As above – fibrous magnetite veins ½ to 1 cm wide															
95·0	99·9	Medium granular olive green and black serpentinite with irregular magnetite veinlets															
99·9	100·8	Altered granophyre – mostly white, fine grained quartz + feldspar with scattered patchy, felt black hornblende or green chloritized hornblende															
100·8	101·5	altered, non magnetic, porcellaineous green and brown serpentinite															
101·5	102·6	Altered granophyre as above with more hornblende in chilled margins.															
102·6	106·0	Green porcellaineous, slightly altered, weakly magnetic serpentinite. Scattered asbestos veins															

070

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 237

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
104.0	108.2	Altered green and dark brown porcellanous serpentinite - weakly magnetic - very small patches of granophyre at 106m															
108.2	110.2	Dark green foliated, magnetic serpentinite c/a 50°															
110.2	113.0	Apple green porcellanous serpentinite with irregular asbestos veinlets. Weakly magnetic.															
113.0	122.0	Olive green and black medium granular serpentinite with fibrous magnetite veinsand veinlets. Some irregular asbestos veinlets.															
EOH																	

626103

071

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) CMP 238

LOCATION Calabrook Hill
OBJECTIVE To test coincident magnetic, E.M., and E.I.P. anomalies.
RESULT

TOTAL DEPTH 230m
HOLE SIZE NB 12m NQ 63m BQ
COMMENCED 9-11-82
COMPLETED 14-11-82
LOGGED BY MAT.

03

8-12 Footage	13-16 Direction	17-18-21 Dip.	8-12 Footage	13-16 Direction	17-18-21 Dip.
77m	060 AMG	41°			
128	089	37			
179	094	30°			
230	096	26°			

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 45°
DIRECTION (16-19) 087 AMG
R.L. (20-23)
CO-ORDS.
LOCATION

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION
0	12.0	Non core drilling	
12.0	26.2	Oxidized pale brown, fine-grained clayey wacke with rare thin siltstone bands. Core rubbly in places c.a.a. 30°.	
26.2	32.0	Rubbly, iron stained, bleached fine grained wacke and indurated grey siltstone, thin limonite coatings on fractures.	
32.0	38.0	Oxidized pale brown, fine-grained clayey wacke - often rubbly.	
38.0	42.3	Partially oxidized and slightly leached grey, fine grained wacke - core irregularly broken. Vughs possibly represent carbonate grains and patches.	
		Base of Significant Oxidation	

04

SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D RUN	CORE REC'D SHORT
			•										

A 11241

6266104

072

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 238

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D
42·3	43·4	Grey, fine grained, siliceous wacke. Sparse thin carbonate veins					
43·4	54·0	Grey and dark grey "Crackle breccia" formed by ? soft sediment? brecciation of wacke and siltstone with rehealing by quartz-carbonate veinlets. 30 cm massive quartz-carbonate after 48.6	Irregular thin pyrite veins 46.4 - 46.8 5cm magnetite with minor pyrrhotite at 52·8				
54·0	58·0	Green grey and grey fine grained wacke and siltstone. Minor irregular quartz-carbonate veining					
58·0	62·4	Dark grey and grey fine grained wacke	~5% pyrrhotite as thin blebs along bedding and as veinlets.				
62·4	65·9	Grey, medium grained ? dolerite with carbonate euhedra in a green grey ground mass. Minor carbonate veining					

ASSAY DATA								CORE REC'D	
Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag · g/t	44-49 Au · g/t	50-55 Fe%		RUN	SHORT

626105

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 238

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D RUN	SHORT
65.9	66.6	Grey and dark grey, interbedded siltstone and shale, brecciated and rehealed by quartz carbonate veins	~5% pyrrhotite as blebs, veinlets and in carbonate veins														
66.6	71.0	Grey fine to medium grained "dolerite" with carbonate subhedra and minor carbonate veins.															
71.0	74.9	Dark grey mudstone with interbedded siltstone in places. Carbonate veining.	~10% pyrrhotite as blebs along bedding and veinlets.														
74.9	76.0	Grey medium grained lithic wacke with rounded mudstone fragments and finer grained rounded detritus in a clayey matrix.	~1% pyrrhotite disseminated throughout.														
76.0	82.8	Grey and dark grey interbedded fine grained wacke, siltstone and mudstone. Some quartz carbonate veining cba 40° Scour and fill indicate uphole (west) facing	~10% pyrrhotite as blebs along bedding, disseminated and in veinlets.														
82.8	86.5	Grey and dark grey medium grained calcareous lithic wacke, calcareous siltstone and mudstone	~1% disseminated pyrrhotite.														

626106

074

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 238

A.11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
86.5	88.5	Green grey fine grained basalt, veined and silicified in places.															
88.5	91.3	Grey and dark grey calcareous siltstone and mudstone. cb a 50° Grading indicates uphole (west) facing	~10% pyrrhotite as blebs and veinlets. 20cm calcite, magnetite with minor pyrrhotite and chalcopyrite at end.														
91.3	98.0	Green grey mudstone, siltstone and fine grained wacke. Good evidence of uphole (west) facing from grading and scour and fill.	~10% pyrrhotite in veins, veinlets and disseminated 2cm pyrrhotite + chalcopyrite + arsenopyrite at 94.8														
98.0	104.6	Dark grey to green grey medium grained lithic wacke to mudstone - laminated in places.	3cm pyrrhotite and chalcopyrite at 100.8 Minor disseminated and veinlet pyrrhotite														
104.6	107.4	Dark grey and green grey disturbed siltstone and mudstone - only rarely calcareous	~10% pyrrhotite as veinlets and disseminated.														

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ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 238

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
107.4	115.8	Pale green grey lithic wacke to mudstone, bedding often disturbed by soft sediment deformation. Good uphole (west) facing at 111.2 – mudstone fragments at base of coarse lithic wacke	~5% pyrrhotite in veinlets and blebs – increasing to end with minor pyrite.														
115.8	118.2	Dark green grey foliated medium grained volcanic arenite with calcareous cement. Grains are well sorted and rounded. Numerous thin carbonate veins	Minor pyrrhotite and pyrite in veins.														
118.2	128.0	Green grey medium grained lithic wacke to siltstone. Bedding often disturbed by soft sediment deformation. 20cm carbonate breccia with 20cm volcanic arenite at 120.5	<5% pyrrhotite disseminated and in veinlets.														
128.0	133.0	Dark grey fine grained wacke. Minor carbonate veining															
133.0	135.5	Green grey siltstone – laminated in places – some soft sediment deformation															

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ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 238

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D: RUN	SHORT
135·5	137·8	Dark grey, medium grained foliated volcanic arenite - rounded basic volcanic fragments in carbonate cement															
137·8	142·2	Dark grey and grey fine grained basalt and silt slope Quartz carbonate veins with patches of chloritization common	Minor pyrrhotite and trace chalcopyrite in quartz - carbonate veins.														
142·2	144·6	Greenish grey intensely veined wacke. Vein material disrupted by deformation.															
144·6	148·7	Greenish grey fine grained wacke to siltstone. Irregular quartz carbonate veins. c6a. 50°	Minor pyrite in quartz carbonate veins														
148·7	153·1	Dark grey, medium grained volcanic wacke to siltstone Grading indicates downhole (east) facing.	Minor blebs of pyrrhotite.														
153·1	158·8	Dark grey, very disrupted, sheared and intensely veined calcareous siltstone 156-157 - thin medium grained carbonate bed	153·2 - 153·5 ≈ 30% pyrrhotite with minor chalcopyrite in chloritic carbonate veins.														

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ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 238

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%	CORE REC'D: RUN	CORE REC'D: SHORT
158·8	171·0	Dark grey and green grey soft sediment slumps breccia of wacke and silt stone fragments Some early carbonate veins also disrupted Carbonate veins common.	Rare pyrrhotite blebs and veinlets.													
171·0	175·0	Dark grey mudstone with some thin limestone and wacke unit - patches of intense carbonate veining and replacement. Grading indicates uphole (west) facing	~20% pyrrhotite as massive replacement, veinlets and bedded disseminations.													
175·0	186·2	Pale grey stylolitic limestone - bedded with thin muddy bands in places.	10-20% pyrrhotite in veinlets start to 177·2 and 185·5 to end. Irregular magnetite veinlets and disseminated magnetite 177·3 – 177·8													
186·2	187·0	Contorted and brecciated mudstone - dark grey & grey green	~20% pyrrhotite in veins and replacement.													
187·0	191·5	Cycles of grey wacke to dark grey shale - cycles 40-50 cm. Numerous pyritic beds - many replaced & remobilized as pyrrhotite. Consistent uphole facing	5 mm pyrite 188·5 1 cm pyrite 188·8 & 189·8 1 cm pyrrhotite 190·7, 190·8, 191·2													

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ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP 238

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag-g/t	44-49 Au-g/t	50-55 Fe%		CORE REC'D RUN	SHORT
191.5	193.0	Brecciated and veined wacke and shale	~20% pyrrhotite in coarser sediments and veinlets.														
193.0	200.0	Cycles of grey fine grained wacke to black shale with 1-5cm pyrite or pyrrhotite beds every 50cm approx cle a 70. Consistent uphole facing. Bedding plane cleavage	Pyrite beds and pyrrhotite bands - average one every 50cm.														
200.0	205.0	Grey fine grained wacke to black shale - laminated and with bedding plane cleavage	2cm pyrrhotite 202.8 5cm pyrite 205.0 Other thin bands ~206.5														
205.0	207.0	Brecciated black shale, minor limestone and siltstone. Fracture system at 30° to core	~20% pyrrhotite and pyrite as blocks, veins and patches														
207.0	216.5	Black shale and siltstone with contorted laminations and disrupted bedding. No bedding plane cleavage															
216.5	221.5	Black shale, siltstone and grey fine grained wacke	~10% pyrrhotite and minor pyrite as veins, replacements and thin beds. 20cm pyrite bed at 219.5 in fine grained wacke														

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ELECTROLYTIC ZINC CO. OF A'ASIA LTD.
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. CHP238

A 11241

FOOTAGE FROM	FOOTAGE TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%		CORE REC'D RUN	CORE REC'D SHORT
221·5	225·6	Grey fine grained wacke to black shale with bedding plane cleavage cba 60°	3cm pyrrhotite 223·1 1cm " 223·1 2cm " 225·1														
225·6	230·0	Slumped fine grained wacke, siltstone and black shale.															
EOH																	

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APPENDIX D

C.M.S. Reports - Petrology

1. Colebrook Hill Grid 82/7/21
2. Ring River Grid 82/7/22
3. Dobsons Creek Area 82/4/41

626114 081

Central Mineralogical Services

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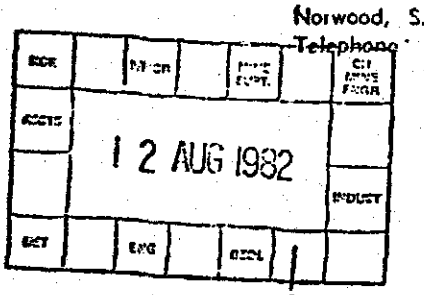

The Manager
Attn. The Chief Geologist
Electrolytic Zinc Co. of
Australasia Ltd.
West Coast Mines
P.O. Box 21
ROSEBERY / TAS. 7470

10th August, 1982

REPORT CMS 82/7/21

YOUR REFERENCE:	Order No. 900384
DATE RECEIVED:	15th July, 1982
SAMPLE NOS.:	13 Samples
SUBMITTED BY:	I.J. Nathison
WORK REQUESTED:	Petrology

for

H.W. Fander, M. Sc.

REPORT CMS 82/7/21

Thirteen rock samples from Colebrook Hill were received for petrological examination. As the suite exhibits limited variations, brief descriptions were prepared in tabulated form. These incorporate data from microscopic (stereobinocular, petrological) examination of representative thin-sections and offcuts, and the results of carbonate staining tests, where applicable.

Summary

This suite consists entirely of contact-altered labile turbiditic sandstones and subordinate pelitic sediments which can be classified broadly as tuffaceous greywackes in recognition of their essentially entirely basic-intermediate volcanic framework components. General features are typical of the labile turbidites of the Crinson Creek Formation. Even relatively altered types (e.g. 45925) are recognisable by virtue of their conspicuous clastic opaques, a characteristic feature of this sequence.

Alteration is of low-grade contact-metamorphic character. Marginally, the alteration assemblage is chloritic. This grades into tremolite-actinolite ± phlogopite, with the Mg-mica reflecting Mg-metasomatism, at least in part. A few rocks exhibit late "retrograde" carbonate-chlorite alteration or, locally, quartz-chlorite veining with accessory schorl. Hornfelsic recrystallization effects are semi-pervasive, but generally mild.

There are analogies with the Bralorne wall rocks as described for example by Patterson et. al. (Econ. Geol. Vol. 76, 1981). Typically metasomatic effects slightly postdate the contact-metamorphic assemblage and tend to comprise Mg-silicates (e.g. tremolite, phlogopite, diopside, dravite). The distinction, however, may not be apparent in individual specimens.

D. Cowan, B. Sc.

Sample No.	Classification - Composition	Fabric	Accessories	Comments
45925 (T.S. 42830)	Altered Labile Psammite. Pervasively dolomite-stained talc aggregates with minor relict detrital quartz, degraded (weathered) feldspar, conspicuous relict detrital silt-sized leucoxenic semi-opaques.	Relict semi-turbidite-like silty fine sandy, weakly bedded clastic. Incipiently sheared.	Thinly disseminated pyrite with incipient pressure shadows.	Primarily a labile turbiditic sandstone ("tuffaceous greywacke"). The talc-dolomite assemblage appears "retrograde" after ?tremolite; possibly shear-related.
45926	Altered Labile Psammite. Framework of thoroughly chloritised/variably dolomite-stained, poorly determinate lava clasts, minor similarly altered feldspar grains, sparse quartz. Fe-stained chloritic matrix.	Weakly bedded, turbidite-like silty fine sandstone with sparse platy "mega-clasts". Incipiently sheared. lets.	Conspicuous hematitic clastic opaques; sporadic chlorite-carbonate films, veinlets.	Thoroughly chloritised, carbonated tuffaceous greywacke. Recognisable lava clasts are basaltic-andesitic. Chlorite conceivably after tremolite actinolite, but no positive evidence
48242	Altered Labile Psammite. Calcite with subordinte/variable proportions of variably chloritised actinolite; conspicuous leucoxenic semi-opaques. Sparse calcite veins.	Weakly directed, medium-grained, marble-like. Relict bedded fine- to medium-grained "turbiditic".	Disseminated (detrital) magnetite. Traces pyrrhotite, rare pyrite, chalcopyrite.	Affinities with 45925, 45926. Calcite-chlorite assemblage corrodes the contact-metamorphic/metasomatic actinolite, but predates weak recrystallization.
48244	Hornfelsed Psammite. Microcrystalline quartz and biotite with relict framework of (biotitic, variably pyrite-stained) lava and pelite clasts, minor plagioclase, sparse quartz grains, chert fragments.	Weakly bedded, poorly sorted (silty to coarse sandy) with a micro-hornfelsic overprint.	Relict detrital opaques, leucoxenic semi-opaques.	Low-grade, hornfelsed labile psammite. Biotite is of weakly metasomatic character. Pyrite is secondary after pyrrhotite.
48245	Hornfelsed Psammite. Relict framework of (phlogopite-chlorite-stained) lava clasts, relatively conspicuous plagioclase, quartz grains. Phlogopite matrix. Patchy quartz-chlorite veining with chloritic selvedges.	Fine-grained, hornfelsic overprint on poorly sorted (silty to medium sandy), weakly bedded, turbiditic.	Fine-grained magnetite (recrystallized, detrital). Traces schorl, arsenopyrite, monazite (veins).	Tuffaceous greywacke with characteristic phlogopite reflecting Mg-metasomatism (analogous to e.g. Renison wall rocks) and later "retrograde" chloritisation, tourmalinisation.
48247	Altered Labile Pelite. Cloudy microcrystalline actinolite with corroded relics of silty to fine sandy clastic plagioclase, microcrystalli quartzofeldspathic material. Sporadic clots, films of pyrrhotite.	Hornfelsic. Relict silty to fine silty e pelitic bedding alternations displaced by actinolite films.	Magnetite and leucoxenic semi-opaques.	Albite-epidote hornfels facies contact-metapelite, labile (feldspathic ?reworked ashy). Fairly typical of the finer Crimson Creek formation labile turbidites.
48252	Hornfelsed Pelite. Ultrafine tremolite-actinolite partly replaced by cloudy ankeritic carbonate. Frequent clots of tremolite ± phlogopite with minor quartz, chlorite.	"Spotted hornfelsic" with faint relict pelitic bedding. Extremely fine-grained.	Conspicuous ultrafine opaques, leucoxenic semi-opaques.	Hornfelsed sub-labile pelite. Finer details obscured by late carbonate-chlorite alteration, but evidently cordieritic, hornfelsed, subsequently tremolitised (+metasomatised).
48248	Altered Labile Psammite. Relict framework of phlogopitic and actinolite-stained lava clasts, phlogopite-stained plagioclase, minor chert fragments, quartz grains. Phlogopite matrix.	Extremely fine hornfelsic overprint on turbiditic, weakly bedded, silty fine sandy clastic.	Sparse actinolite, phlogopite veinlets. Conspicuous relict detrital Fe-oxides.	Close affinities with 48245. Phlogopite is mildly actinlite-replacive, although texturally near-contemporaneous. Late chloritic assemblage (e.g. 48245) is absent.

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Sample No.	Classification - Composition	Fabric	Accessories	Comments
48249	Altered Labile Psammite. Relict framework of (actinolite-stained) lava clasts, subordinate to minor plagioclase, minor quartz grains. Actinolite matrix. Sporadic actinolite veins, late chloritic fractures.	Mildly hornfelsic. Relict silty fine to medium sandy, turbidite-like.	Clastic opaques, leucoxenic semi-opaques.	Typical actinolitic, hornfelsed labile psammite ("tuffaceous greywacke") with affinities to 48247, etc.
48250	Altered Labile Psammopelite. Framework of actinolitic/weakly phlogopitic basic-intermediate lava clasts, plagioclase, minor quartz grains. Actinolitic matrix. Actinolite-phlogopite hornfels interbeds.	Psammitic to actinolite-poikiloblastic, hornfelsed, pelitic. Quartz-phlogopite-veined contact.	Detrital opaques. Traces pyrrhotite, carbonate, fluorite, chalcopyrite (vein).	Phlogopitic, actinolite-hornfelsed labile psammopelite with minor quartz-vein-related sulphide disseminations. Mildly Mg-metasomatised?
48251	Altered Labile Psammite. Framework of thoroughly chloritised lava clasts, subordinate chlorite-stained plagioclase, minor quartz. Chlorite matrix. Conspicuous opaques. Sparse chlorite(-quartz) veinlets.	Turbiditic silty fine to medium sandy clastic. Weakly displacive chloritic fractures (veinlets).	Traces sericite, pale phlogopite.	Thoroughly chloritised, texturally typical "tuffaceous greywacke". Chlorite is a magnesian variety, probably a marginal variant of the phlogopitic Mg-metasomatism.
48253	Altered Labile Psammite. Extensively chloritised to phlogopitised labile framework with relics of feldspar, quartz. Chloritic to phlogopitic matrix with patchy late poikilitic dolomite.	Turbiditic silty fine sandstone with mild hornfelsic overprint. Minor late chlorite veinlets.	Clastic opaques, leucoxenic semi-opaques.	Variably chlorite-dolomite-altered phlogopitic (Mg-metasomatised) hornfels with affinities to 48245 in terms of alteration features.
48246	Altered Labile Psammite. Framework of extensively phlogopitised/largely indeterminate lithic clasts, quartz, minor feldspar, felsite and chert fragments; phlogopitic matrix.	Mildly hornfelsic, turbiditic silty fine sandstone.	Clastic opaques, leucoxenic semi-opaques. Traces partly pyritised pyrrhotite, rare ultrafine chalcopyrite.	Phlogopitic (Mg-metasomatised) "tuffaceous greywacke" with accessory disseminations Fe-sulphic minor traces chalcopyrite.

Central Mineralogical Services

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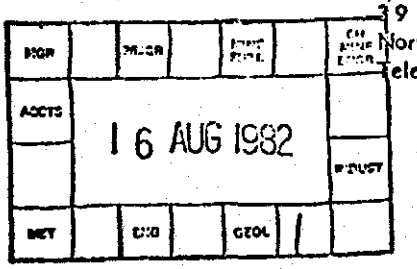

The Manager
Attn. The Chief Geologist
Electrolytic Zinc Co. of
Australasia Ltd.
West Coast Mines
P.O. Box 21
ROSEBERY / TAS. 7470

12th August, 1982

REPORT CMS 82/7/22

YOUR REFERENCE:	Order No. 900383
DATE RECEIVED:	15th July, 1982
SAMPLE NOS.:	12 Samples
SUBMITTED BY:	I.J. Mathison
WORK REQUESTED:	Petrology

H.W. Fander, M. Sc.

REPORT CMS 82/7/22

Twelve rock samples were received for brief petrological description and results are compiled in the attached tables. Descriptions incorporate data from K-feldspar staining tests and microscopic (stereobinocular, petrological) examination of representative thin-sections and offcuts, and include interpretative and comparative comments.

Summary

This suite consists essentially of psammitic sediments and basic to acid volcanics. In general, there is a good agreement between petrological relationships and the hand specimen descriptions appended to the submission sheet. Divergences relate largely to the semi-aphanitic components (e.g. clasts in clastic sediments, matrix of pyroclastics, particularly 46640) and a misinterpretation of carbonaceous films and graphite flakes (46652, 46661) as detrital biotite.

Volcanics are extensively altered, with the assemblages partly reflecting primary compositional variations (chloritisation of basic-intermediate; sericitisation of relatively acid types). Alteration hinders specific compositional identification, although these rocks can be placed in semi-distinct categories ("basaltic-andesitic", "dacitic", etc.) on the basis of inferred primary mineralogy and relict textural features. The suite as a whole (i.e. sediments, volcanics) is devoid of specific contact-metasomatic effects. Alteration in the volcanics appears largely "deuteric", although no doubt enhanced by burial and low-grade metamorphic effects.

D. Cowan, B. Sc.

Sample No.	Classification - Composition	Fabric	Accessories	Central Mineralogical Services Comments
41932 (T.S. 42843)	"Dacitic" Tuff. Framework of sericitic plagioclase, minor quartz crystals/fragments, extensively silicified/albitised and chlorite-sericite-siderite-stained lava clasts. Similarly altered ashy matrix with silt-sized clastic muscovite.	Poorly sorted, weakly bedded, silty fine to coarse sandy clastic. Very incipiently sheared.	Leucoxenic semi-opaques, sperse micro-scale quartz-albite veinlets.	Leuco-andesitic/dacitic lithic-crystal tuff. Clastic fabric suggestive of shallow subaqueous deposition; possibly incipiently reworked.
41990	Volcanomict Conglomerate. Clasts of impure chert, sericitic, chloritic, albitised, basaltic to andesitic minor rhyolitic volcanics, similarly altered lithic sandstone matrix. Chloritic, sericitic cement.	Fine sandstone-supported conglomerate/pebbly sandstone. Incipiently sheared.	Clasts of sericitic arkosic siltstone, vein-type quartz. Pervasive ankerite stainings (matrix).	Basic-intermediate volcanomict conglomerate. Alteration analogous to 41932. High matrix/framework ratio consistent with a broadly turbiditic facies.
41994	Altered "Microgabbro". Frequent albitised/sericitised plagioclase laths, minor serpentinised olivine with altered interstices of vaguely ?pyroxene-pseudomorphous chlorite, sericite, "cherty" quartz.	Variably semi-mylonitic, fractured to sheared. Vaguely relict doleritic (subophitic).	Sparsely disseminated leucoxenised opaques.	Primary features obscured by marked pervasive alteration, deformation effects, but essentially altered "doleritic". Minor intrusive character.
46620	Lithic Sandstone. Framework of chert, impure chert, sericitic quartz siltstone, silicified "rhyolitic" tuff, sericitic shale, silicified sericitised acid lava clasts. Sericitic, fine to cherty quartz matrix.	Weakly bedded, poorly sorted (gritty fine to coarse) sandstone. Incipiently sheared.	Oxidised/leucoxenised clastic opaques, trace "coaly" carbonaceous matter, rare detrital chromite.	Polymict lithic sandstone. Volcanically derived components are relatively acid in comparison to 41990.
46640	"Rhyolitic" Tuff. Thinly disseminated quartz, sericite-stained albite crystals/fragments, sericitised/silicified lava, minor chert and sericitic shale clasts; sericite/microcrystalline quartz matrix.	Evenly disseminated, angular-subangular clasts (100μ - 1 mm), vaguely shardy matrix.	Leucoxenised/oxidised opaques.	Finer detail obscured by silicification/sericitisation and incipient shearing. Interpreted as a weakly xenolithic, rhyolitic, vitric (-crystal-lithic) tuff; ?ignimbritic.
46645	"Andesite". Cherty quartz, semi- to sericitic muscovite and Fe-Mg chlorite in varying proportions. Abundant silicified feldspar, chloritised ferromag phenocrysts, similarly altered groundmass microlaths.	Strongly porphyritic with weakly skeletally crystallized (chilled) groundmass. "Andesitic".	Conspicuous ultrafine leucoxenised opaques. Sparse cherty quartz veinlets. Minor trace pyrite.	Strongly porphyritic basic-intermediate lava or chilled minor intrusive. Reflects secondary silicification (postdating ?deuteric sericite-chlorite(-pyrite)).
46652	Lithic Sandstone. Framework of subangular to rounded quartz (60 %), sericitic pelite, impure chert clasts (30 %), carbonaceous shale clasts (5 %), muscovite (2-3 %). Matrix (25 %) of quartz, chlorite, minor sericite.	Well-sorted, weakly bedded fine sandstone, incipiently stressed.	Detrital schorl, zircon, leucoxenic semi-opaques. Sparse dis-cordant quartz veinlets.	Carbonaceous, chloritic lithic sandstone with carbonaceous matter partly re-organised into microfilms, reflecting incipient regional metamorphism. No "volcanic" features.
46661	Lithic Sandstone. Framework of subangular to rounded quartz, sericitic pelite, minor sericite, impure cherty?felsite clasts, muscovite flakes. Carbonaceous, sericitic matrix (25 %).	Weakly silty shale-parted, well-sorted fine sandstone. Similar to 46652, but relatively sheared, microfractured.	Detrital leucoxenic semi-opaques, minor zircons, schorl.	Close affinities with 46652. In comparison, this rock is relatively argillaceous (sericitic) and carbonaceous.

Sample No.	Classification - Composition	Fabric	Accessories	Central Mineralogical Services Comments
46676	Reworked Tuff. Abundant albitised plagioclase grains, subordinate chloritised "basalt", minor microgabbro clasts, minor clasts arkosic silty shale. Chlorite matrix; minor chlorite veinlets.	Incipiently bedded, gritty to pebbly, poorly sorted, sandy clastic. Subangular to rounded clasts.	Conspicuous leucoxenised clastic opaques, leucoxenic magnetite.	Finer detail obscured by marked pervasive chloritisation of matrix and lithic clasts, but general features consistent with a mildly reworked "basaltic" tuff.
46678	Lithic Sandstone. Framework of thoroughly chlorite-sericite-quartz-altered felsite clasts, subordinate sericitic pelite, impure chert clasts, quartz and sericitised feldspar grains. Sericitic matrix.	Poorly (trend bimodally) sorted, fine to medium, weakly bedded sandstone. Sparse ankerite-chlorite veins.	More or less pervasive ankeritic carbonate. Traces carbonaceous matter, pyrite.	Intermediate-acid volcanomict sandstone with finer detail obscured by alteration. Late vein-related chloritisation with concentration carbonaceous matter, minor pyrite.
46684	Lithic Sandstone. Degraded (illitised), semi-sericitic muscovite, subordinate/variable calcite. Disseminated relict detrital quartz; conspicuous leucoxenic semi-opaques.	Relict silty fine sandy clastic. Weakly sheared with locally conspicuous sericitic microfractures.	Traces fine-grained pyritised pyrrhotite. Sparse carbonate veinlets. Patchy kaolin.	Poorly determinate framework; apparently intermediate-acid volcanomict (sim. 46678). Late carbonation analogous to chlorite (46678).
46654 (T.S. 42254)	Lithic Sandstone. Framework of subangular to rounded quartz (60 %), sericitic pelite and sericitic impure chert clasts (35 %), muscovite flakes (5 %). Matrix (25 %), overgrowth and intergranular quartz, minor sericite.	Moderately to well sorted, weakly bedded fine sandstone, minor medium sand clasts.	Carbonaceous pelite clasts. Detrital leucoxenic semi-opaques, schorl, zircon, rare monazite.	Quartzose lithic sandstone with very close affinities to 46652 (and 46651). No "volcanic" features.

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Central Mineralogical Services

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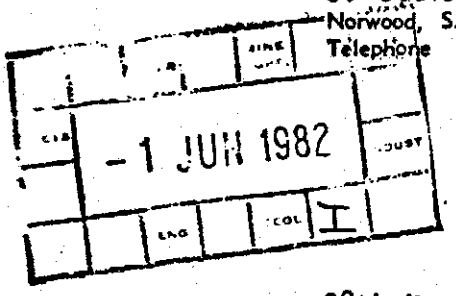

The Manager
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ROSEBERY / TAS. 7470

28th May, 1982

REPORT CMS 82/4/41

YOUR REFERENCE:	Order No. 900360
DATE RECEIVED:	29th April, 1982
SAMPLE NOS.:	35191 - 35195
SUBMITTED BY:	I.R. McDonald
WORK REQUESTED:	Petrology

H.W. Fander, M. Sc.

REPORT CMS 82/4/41

Five samples of diamond drill core were received for petrological examination, and results are compiled in the attached table. Descriptions incorporate data from K-feldspar and carbonate-staining tests and microscopic (stereobinocular, petrological) examination of representative thin-sections and offcuts.

Summary

The bulk of this suite comprises altered dacitic to rhyolitic volcanics, more or less characteristic of the Mount Read Volcanics. Primary textural features are partly obliterated, but the rocks in general appear to represent subaerial facies. A possible exception is the pelitic ash (35192)which is of subaerially-transported/subaqueously-deposited character.

Alteration features are rather consistent with sericite-quartz-albite-chlorite (± epidote-calcite-pyrite) assemblages. Weak and non-penetrative regional metamorphic overprints approximate to sub- or low-greenschist facies, and there are no positive indications as to whether the bulk alteration effects are essentially volcanohydrothermal (and enhanced by the low-grade metamorphism), or strictly metamorphic. An exception is the rather patchy carbonation which is typically texturally late.

Sample 35191 is a strongly carbonaceous, dolomitic, low-grade metapelite with accessory syngenetic pyrite and sporadic films of sphalerite. The latter features post-date the weak slaty cleavage, but predate a weak late phase of calcite veining. Sphalerite is a deep red (moderate-Fe) variety and appears to reflect an essentially "Zeehan-style" mineralising phase.

D. Cowan, B. Sc.

Central Mineralogical Services

Sample No.	Classification - Composition	Fabric	Accessories	Comments
35191 (T.S. 41876) DCP 235 611m.	Carbonaceous, Dolomitic Pelite. Microcrystalline dolomite and semi-sericitic muscovite with pervasive carbonaceous matter. Sporadic films, veinlets sphalerite, dolomite. Minor late calcite veinlets.	Weak slaty cleavage discordant to weak pelitic bedding. Post-cleavage sphalerite films, veinlets.	Traces ultrafine to weakly metablastic (recrystallized)pyrite, minor pressure shadow and silty detrital quartz.	Sub- to low-greenschist facies slate developed from strongly carbonaceous, dolomitic, weakly pyritic shale. Sphalerite concentrated into post-cleavage fract-
35192 DCP235 83.0m.	Pelitic Ash. Sericite-chlorite-stained cryptocrystalline quartzofeldspathic material with weak but pervasive calcite stainings. Disseminated silt-sized clastic leucoxenic semi-opaques, minor quartz, albite.	Vague but pervasive relict vitroclastic textures. Incipiently bedded with weak discordant cleavage.	Minor traces pyrite. Sparse calcite veinlets, films (parallelling the incipient cleavage).	ures ("joints"). Devitrified sub- to low-greenschist facies altered vitric(-crystal) ash, felsic intermediate-acid. Distal subaerially-transported "blanket"-type facies. Possible marker horizon.
35193 DCP235 184.0m.	Vitric-Crystal Tuff. Variably calcite-sericite pseudomorphed oligoclase-albite, subordinate quartz crystal fragments. Weakly sericite-stained cryptocrystalline to microcrystalline quartz-albite matrix.	Incipiently banded with relict "eutaxitic" shardy-textured matrix. Mildly stressed, unsheared.	Leucoxenic semi-opaques, rare silicified/albitised lava clasts. Rare pyrite films, late calcite veinlets.	Devitrified vitric-crystal tuff, sodi rhyolitic, ignimbritic characteristics. Essentially low-greenschist altered with late calcite impregnations analogous to
35194 D.C.P.235 [illegible]m	"Metadacite". Disseminated variably saussurite-chlorite-stained sericitic pseudomorphs of plagioclase crystals, clusters in variably calcite-stained sericitised/silicified matrix.	Porphyritic lava-like, but with vaguely shardy, finely perlitic felsitic matrix. Weakly sheared.	Leucoxenised opaques. Minor cloudy epidote (saussurite). Trace pyrite (chlorite pressure shadows).	35192. Finer detail obscured, but probably a thoroughly welded tuff, dacitic in contrast to 35193. Weak pinkish mottling reflects primary Fe-pigmentation of glassy matrix.
35195 (T.S. 41880) DCP235 [illegible]m.	"Metadacite". Extensively sericitised ?oligoclase crystals, clusters in weakly sericite-chlorite-stained/variably silicified, felsitic quartzofeldspathic matrix with disseminated leucoxenised opaques.	Rather similar to 35194, but reflecting flow-brecciation in the vaguely relict shardy matrix.	Traces fine to ultrafine pyrite, minor traces cloudy carbonate.	Relict fabric consistent with a welded, flow-brecciated vitric-crystal tuff. Relatively silicified matrix in common with the texturally, compositionally similar 35194.

APPENDIX E

Sample Data Sheets - Rock Chips

≡Z Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626126

Project : M. Black
Locality : Colebrook Drill Area
Grid Name : Colebrook
Nominal Grid Azimuth :

Material : Rock chips
Sample Method : Channel Sample
Sampled By : B. MOYLE
Date : 29-9-82 & 4-10-82

Size Fraction Analysed : -80#
Analysed By : Amdel Labs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	NORTHING	EASTING	Distance from Peg to	Sample Composition Data: Peg	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (p.p.m. unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Bi	W
40960	FACE A	53	3	ZERO	TO +5m							360	95	230	x	85	21·0%	1·15%	410	6	36
961	" A	53	3	+5m	" +10m							300	60	260	x	45	15·0%	1·20%	75	x	19
962	" A	53	3	+10m	" +15m							140	5	240	x	35	13·5%	5600	21	x	x
963	" A	53	3	+15m	" +20m							150	5	320	x	45	13·5%	5400	5	x	x
964	" A	53	3	+20m	" +25m							135	5	270	x	40	14·5%	4050	11	x	11
40965	" A	53	3	+25m	" +28·3m							230	10	175	x	30	16·0%	2400	19	x	x
		53	3																		
		53	3																		
40966	FACE B	53	3	ZERO	TO +2m							465	5	130	x	70	19·5%	1200	690	20	81
967	" B	53	3	+2m	" +4m							290	45	220	x	50	18·5%	1800	69	x	17
968	" B	53	3	+4m	" +6m							190	35	145	x	65	17·5%	4600	100	x	5
969	" B	53	3	+6m	" +8m							170	35	135	x	60	15·0%	3400	26	x	x
970	" B	53	3	+8m	" +10m							160	20	270	x	55	15·5%	4250	29	x	7
971	" B	53	3	+10m	" +12m							145	10	195	x	55	15·5%	9850	66	x	10
972	" B	53	3	+12m	" +14m							170	10	150	x	50	14·0%	3800	41	x	x
973	" B	53	3	+14m	" +16m							155	5	180	x	30	17·0%	13500	34	x	7
974	" B	53	3	+16m	" +18m							320	40	370	x	35	19·5%	3200	310	x	x
40975	" B	53	3	+18m	" +19·1m							225	50	140	x	25	12·0%	620	380	x	x
		53	3																	

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626127 SHEET 2.

Project : Mt. BLACK
Locality : Colebrook Drill Access Rd
Grid Name : Colebrook
Nominal Grid Azimuth :
Material : ROCK CHIPS
Sample Method : Channel Sample
Sampled By : B. MOYLE
Date : 29.9.82. + 4.10.82
Size Fraction Analysed :
Analysed By :
Method :

SAMPLE NUMBER	METAL CONTENT (p.p.m. unless specified) Sn	Co	Cr	Bi	Sb	Hg	Ba.	F
40960	59							
961	8							
962	66							
963	X							
964	74							
40965	67							
40966	885							
967	42							
968	X							
969	X							
970	X							
971	26							
972	6							
973	5							
974	8							
40975	18							

≡ Z Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626128

Project : Mt Black
Locality : Colebrook Drill Rdw.
Grid Name : Colebrook
Nominal Grid Azimuth :

Material : Rock Chips
Sample Method : Channel Sample
Sampled By : B. Moyle
Date : 4/10/82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Grid Line No / Grid Easting	AMG CO-ORDINATES NORTHING	AMG CO-ORDINATES EASTING	Distance from Peg	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Bi	W
40976	face C	53	3	2 ckd	to +2						400	20	350	x	110	17.0%	2000	x	x	x
977	" C	53	3	+2	to +4						215	25	340	x	110	15.0%	2100	5	x	17
978	" C	53	3	+4	to +6						210	30	300	x	95	15.0%	2300	5	x	4
979	" C	53	3	+6	to +8						210	55	320	x	120	15.0%	2250	4	x	10
980	" C	53	3	+8	to +10						285	100	400	x	115	15.5%	2850	4	x	7
981	" C	53	3	+10	to +12						210	50	420	x	120	16.5%	2300	4	x	11
982	" C	53	3	+12	to +14						240	170	380	x	140	16.0%	2150	1	x	17
983	" C	53	3	+14	to +16						250	170	400	x	155	16.0%	2100	x	x	19
984	" C	53	3	+16	to +18						180	80	350	x	230	16.5%	1950	1	x	4
985	" C	53	3	+18	to +20						170	25	280	x	155	16.5%	2100	1	x	13
986	" C	53	3	+20	to +22						210	45	310	x	95	16.0%	2650	x	x	10
987	" C	53	3	+22	to +24						200	80	250	x	135	16.5%	2300	8	x	5
988	" C	53	3	+24	to +26						285	35	300	x	135	18.0%	4900	19	x	7
989	" C	53	3	+26	to +28						200	40	320	x	135	15.5%	1750	1	x	x
990	" C	53	3	+28	to +30						210	20	280	x	125	17.0%	2100	x	x	12
991	" C	53	3	+30	to +32						260	30	270	x	105	15.5%	2100	2	x	17
992	" C	53	3	+32	to +34						225	20	270	x	140	15.0%	1900	x	x	x
993	" C	53	3	+34	to +36						270	25	350	x	115	15.0%	2400	x	x	11
994	" C	53	3	+36	to +38						750	25	340	x	125	15.5%	1800	2	x	8
40995	" C	53	3	+38	to +39						320	30	310	x	105	14.5%	1500	x	x	x
		53	3																	
		53	3																	
(see face D)		53	3																	
		53	3																	
		53	3																	
		53	3																	
		53	3																	
		53	3																	
		53	3																	
		53	3																	

370000 mE

380000 mE

390000 mE

5380000 mN

5370000 mN

5360000 mN

BURNS PEAK

RAILWAY

BAY

EMU

Pieman River

MURCHISON

ROSEBERY

HIGHWAY

Future Lake Rosebery

Lake Mackintosh

Mackintosh River

FARRELL MINE

TULLAH

MT FARRELL

Sterling Valley E.L. 4/73

MT BLACK

Sterling River

Murchison Dam

MT MURCHISON

West Murchison Grid

Stitt

WILLIAMSFORD

MT. READ

MT. DUNDAS

MOORES PIMPLE

Jones Creek

Dobson Creek

Whirl Spur Ck

River

E.L. 1/62

BOUNDARY OF SOUTH WEST TASMANIA CONSERVATION AREA

MRP 239

CHP 229

CHP 230

CHP 240

CHP 243

JCP 211

JCP 216

JCP 235

MRP 227

MRP 226

MRP 233

MRP 219

LEGEND

- Road
- Creek Cut
- Line Cut, Pegged, Soil Sampled
- Line Cut, Pegged, Ground Magnetics
- Soil Pit Dug and Sampled
- Geological Interpretation
- MRP 31 — Diamond Drillhole completed
- CHP 238 — Downhole Geophysical Survey
- Ground Magnetics
- Line Cut
- Line Pegged
- Line Soil Sampled
- Line Geology Mapped
- Line E.M.
- Creek Mapped and Stream Sediment Sampled
- Access Mapping Completed
- Line Dipole-Dipole I.P.
- Vehicle Track
- Walking Track
- Railway
- Abandoned Tramway
- Transmission Line
- Grid Line

626129

5 cm

ELECTROLYTIC ZINC CO. OF A'ASIA LTD

PROJECT: MT. BLACK | TAS.

WORK COMPLETED DURING

4-5-'83 – 15-11-'83

SCALE 1 : 50,000	REVISED : 12-7-1983	REFERENCE NO.
REFERENCE		
DATE : 29.5.80	DRAWN : R.P.T.	A2 - 504 - 0016

5372000 N

5371500 N

5371000 N

5370500 N

5370000 N

5375000 E

626130

GEOLOGICAL

LEGEND

Geological boundary Observed
Geological boundary inferred
Outcrop Scree or float
Strike, dip of bedding, measured
vertical
Anticline Overturned
Syncline Overturned
Plunge of major fold
Unconformity
Fault
Shear zone
Strike, dip of joint
foliation
cleavage

Gossan
Minor mineral occurrence
Mine, prospect
Costean
Specimen location
Diamond drill hole
Percussion drill hole

TOPOGRAPHICAL

Trig station, elevation m
Road
Vehicle track
Track
Fence
Homestead
Streams
Railway
Dam
Bore

GEOPHYSICAL
GEOCHEMICAL

KEY MAP

Notes :-

5 cm

SCALE

1:5000

Getty | AUSTRALASIA
GETTY OIL DEVELOPMENT COMPANY LIMITED

TOTAL FORCE MAGNETICS
COLEBROOK HILL
MT. BLACK E.L. 1/62, TAS.

Author:	Scale:
Drawn:	Date:
Revised:	File No: / Fig No:

022

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626131 SHEET 2.

Project : W.H. BLACK
Locality : Colebrook Drill Rds.
Grid Name : Colebrook
Nominal Grid Azimuth :

Material : ROCK CHIPS
Sample Method : Channel Sample
Sampled By : B. MOYLE
Date : 4-10-82

Size Fraction Analysed :
Analysed By :
Method :

SAMPLE NUMBER	METAL CONTENT (ppm. unless specified)							
	Sn	Co	Cr	Bi	Sb	Hg	Ba.	F
40976	16							
977	x							
978	x							
979	6							
980	10							
981	x							
982	x							
983	x							
984	x							
985	5							
986	14							
987	9							
988	227							
989	x							
990	x							
991	x							
992	4							
993	x							
994	4							
40995	x							

≅Z Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626132

Project : ..ell Block.....
Locality : Coldrum Drill Area Rd.
Grid Name : Coldrum.....
Nominal Grid Azimuth : .....

Material : Rock Chips chamfer sample
Sample Method : .....
Sampled By : TB : 1 Chip
Date : 5/10/82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	Sample Composition Data: Depth peg	Depth from peg	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Bi	W
40996	Face E	513	3	2 ckb	6 + 2							170	115	300	X	90	15·0%	1950	1X	X	7
997	" E	513	3	+ 2	6 + 4							195	20	255	X	75	15·5%	7160	114	X	4
998	" E	513	3	+ 4	6 + 6							160	20	305	X	70	17·5%	7800	112	X	11
999	" E	513	3	+ 6	6 + 8							400	20	225	X	95	19·0%	11950	580	2	10
41000	" E	513	3	+ 8	6 + 10							175	25	150	1·0	85	12·0%	530	90	2	4
		513	3																		
42749	Face E	513	3	+ 12	6 + 14							320	70	165	X	105	14·0%	3200	56	2	17
750	" E	513	3	+ 14	6 + 16							450	75	180	0·5	80	20·0%	5500	70	10	31
751	" E	513	3	+ 16	6 + 18							320	235	165	X	80	13·0%	2700	90	4	13
752	" E	513	3	+ 18	6 + 20							770	35	100	X	80	29·0%	3600	620	32	36
753	" E	513	3	+ 20	6 + 22							565	25	120	X	75	19·0%	27150	180	2	X
754	" E	513	3	+ 22	6 + 24							1000	60	175	X	50	18·0%	4300	270	10	25
755	" E	513	3	+ 24	6 + 26							840	65	115	X	100	20·0%	8000	780	60	56
756	" E	513	3	+ 26	6 + 28							885	25	180	0·5	85	16·5%	4950	60	4	32
757	" E	513	3	+ 28	6 + 30							275	10	135	X	100	13·5%	1850	22	X	21
758	" E	513	3	+ 30	6 + 32							190	15	185	0·5	110	12·0%	2250	22	X	7
759	" E	513	3	+ 32	6 + 34							315	15	250	X	90	10·5%	4500	36	X	X
760	" E	513	3	+ 34	6 + 36							300	10	190	X	80	11·0%	3200	47	X	11
761	" E	513	3	+ 36	6 + 38							185	10	210	X	80	11·0%	1850	21	X	8
762	" E	513	3	+ 38	6 + 40							215	10	275	0·5	85	11·0%	2450	8	X	12
763	" E	513	3	+ 40	6 + 42							330	5	345	X	95	11·0%	4950	7	X	13
764	" E	513	3	+ 42	6 + 44							170	X	240	1·0	65	11·0%	950	50	2	6
42765	" E	513	3	+ 44	6 + 46							155	15	230	X	65	12·0%	2700	21	X	5
		513	3																		
42766	Face E	513	3	+ 10	6 + 12							140	25	160	X	70	10·5%	670	44	4	5
		513	3																		
		513	3																		
		513	3																		
		513	3																		
		513	3																		

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626133 SHEET 2.

Project : Mt. BLACK
Locality : Colebrook Drill Rds.
Grid Name : Colebrook
Nominal Grid Azimuth :

Material : ROCK CHIPS
Sample Method : Channel Sample
Sampled By : B. MOYLE
Date : 4-10-82

Size Fraction Analysed :
Analysed By :
Method :

SAMPLE NUMBER	METAL CONTENT (ppm unless specified)							
	Sn	Co	Cr	Bi	Sb	Hg	Ba.	F
40996	X							
997	8							
998	12							
999	53							
41000	16							
42749	198							
750	437							
751	26							
752	1260							
753	97							
754	67							
755	2030							
756	226							
757	114							
758	34							
759	39							
760	28							
761	16							
762	5							
763	5							
764	10							
42765	8							
42766	12							

626134

APPENDIX F

Soil Sample Data Sheets - Ring River Grid

E.Z. Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626135

Project : .....
Locality : .....
Grid Name : NATONE.....
Nominal Grid Azimuth : .....

Material : .....
Sample Method : .....
Sampled By : G.B. + R.C.....
Date : .....

Size Fraction Analysed : .....
Analysed By : .....
Method : .....

SAMPLE NUMBER	Sample Location Data: Grid Line No 3671100N; AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH m	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu ✓	Pb ✓	Zn	As	Au	Fe %	Mn	As	Sn	Cr
5125	3735	53	3	0·05	BK	1	5	1	0	70		20	65	70	X		4·85%	410	5	1	45
60	5440	53	3	0·25	BRBK	2	5	2	5	50		10	X	40	X		1·50%	110	X	X	25
61	5660	53	3	0·35	GYBR	90	10					5	5	25	X		1·00%	110	X	1	110
62	5880	53	3	0·85	4CRBR	40	35	25		CR		20	100	50	X		2·30%	40	16	X	70
63	6100	53	3	0·45	LTOR	80	10	10				20	20	60	X		5·40%	245	6	X	95
64	6320	53	3	0·85	ORBR	90	5	5				20	10	60	X		6·20%	90	4	X	55
65	6540	53	3	0·05	BR	25	25	25	25			20	65	60	X		4·0%	145	10	X	95
66	6760	53	3	0·45	DKOR	95		5				20	65	40	X		6·0%	80	8	X	70
67	6980	53	3	0·45	CRBROR	50	50					20	95	35	X		4·20%	50	11	X	90

EZ Co of Aust Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626136

Project : Mt. Black
Locality :
Grid Name : DATONE GRID
Nominal Grid Azimuth :

Material : SOILS
Sample Method :
Sampled By : MALLISON CONTRACTORS
Date :

Size Fraction Analysed :
Analysed By :
Method :

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sb	Cr
9557	367 100N / 37+860E	S3	B	HORZ	0-15	3R	60	10	20	10		120	235	390	0·5		8·00%	480	21	X	70
558	880	S3	B	HORZ	0-40	BROR	55	15	25	5		135	225	580	X		9·90%	295	66	11	60
559	900	S3			0-15	LTBR	60	10	20	10		100	435	860	X		3·80%	100	22	11	35
560	920	S3	A	HORZ	0-20	BROR	40	20	20	20		70	355	510	X		9·20%	1125	19	11	45
561	940	S3	B	HORZ	0-200	RBR	70	10	20			190	486	635	X		10·10%	4550	24	X	70
562	960	S3	B	HORZ	0-30	ORBR	50	10	30	10		90	200	370	X		9·20%	1400	35	X	70
563	980	S3	B	HORZ	0-200	RBR	70	10	20			150	95	245	X		9·80%	3200	23	X	80
9564	375000	S3			0-30	DKBR	40	20	30	10		70	220	27010	X		8·50%	2·70%	39	11	75
565	020	S3	B	HORZ	0-25	BR	60	10	20		LOAM VER	115	430	235	X		7·25%	1800	22	X	40
566	040	S3			0-450	RBR	80	10	10			30	140	125	X		5·60%	1130	4	X	50
567	060	S3			0-300	RBR	70	10	20		TRAM	90	80	200	X		9·00%	7180	11	X	40
568	080	S3			0-300	RBR	70	10	20			5	5	40	X		6·00%	70	1X	X	X
569	100	S3			0-150	RBR	70	10	20			5	25	55	X		5·20%	70	3	X	X
570	120	S3			0-15	LTBR	70	10	20			5	45	55	X		5·70%	1400	3	X	10
571	140	S3	B	HORZ	0-15	LTBR	60	10	20	10		5	40	40	X		3·30%	75	4	X	X
572	160	S3			0-15	BR	60	10	20	10		10	35	25	X		2·90%	400	2	X	5
573	180	S3	B	HORZ	0-15	LTBR	60	10	20	10		10	35	30	X		1·70%	900	2	X	5
574	200	S3	B	HORZ	0-30	BRGY	60	10	20	10		5	25	25	X		7250	200	1	X	10
575	220	S3			0-30	LTBR	70	10	20			20	50	45	X		2·80%	2150	4	X	15
576	240	S3	B	HORZ	0-15	GYBR	60	10	20	10		35	60	80	X		5·35%	4950	3	X	30
577	260	S3			0-30	LTBR	70	10	20			65	110	95	X		6·40%	10000	11	X	30
578	280	S3	B	HORZ	0-20	BR	60	10	20	10		25	40	60	X		4·85%	3150	X	11	25
579	300	S3			0-40	BR	70	10	20			20	25	45	0·5		4·95%	1430	11	X	10
580	320	S3			1-300	RBR	70	10	20			80	55	125	X		10·00%	7250	4	X	40
581	340	S3			0-30	LTBR	70	10	20			X	X	110	X		9·50	150	1	X	X
582	360	S3	B	HORZ	0-15	LTBR	60	10	20	10		X	115	165	0·5		19·50	200	1	X	X
583	380	S3			0-40	LTBR	60	20	20			X	115	115	0·5		20·50	100	6	X	X
9584	375400	S3			0-600	RBR	70	10	20			5	20	50	X		6·45%	350	3	X	5
		S3																			

E.Z. Co of Aust. Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626137

Project : Mt. Black
Locality :
Grid Name : NATONE GRID
Nominal Grid Azimuth :

Material : SOILS
Sample Method :
Sampled By : MALLISON CONTRACTORS
Date :

Size Fraction Analysed :
Analysed By :
Method :

SAMPLE NUMBER	Sample Location Data: Grid Line No. 3671100N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	COLOUR	Sample Composition Data: Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
9528	374280E			0-45	YLBR	70	10	20				25	20	55	X		4·0	10%	210	9	X	20
529	300			0-30	ORBR	70	10	20				55	25	75	X		5·6	5%	180	9	11	30
530	320			0-25	ORBR	70	15	10	5			25	20	130	X		3·7	0%	130	12	X	20
531	340	B	HORZ	0-10	LTBR	40	10	40	10			35	60	55	X		2·1	0·5%	165	9	2	10
532	360	B	HORZ	0-25	LTBR	75	10	10	5			5	20	25	X		1·1	20%	65	4	1	10
533	380			0-40	LTBR	70	10	20				20	45	25	X		2·6	0%	80	10	T	20
534	400			0-55	GNYLOR	60	30	10				5	20	15	X		2·2	0%	125	17	11	20
535	420			0-30	RDBR	70	10	20				10	40	45	X		5·6	5%	175	9	11	25
536	440			0-25	ORBR	65	15	15	5			10	20	65	X		5·2	5%	100	7	X	25
537	460			0-20	LTBR	70	10	20				10	50	50	X		4·0	5%	120	8	X	35
538	480			0-40	ORBR	60	10	30				25	40	50	X		4·4	5%	100	9	11	30
539	500			0-30	ORBR	70	10	20				45	560	1140	X		6·0	5%	3225	13	X	40
9540	374520			0-40	ORBR	70	10	20				80	80	90	X		6·0	10%	340	10	X	65
541	540			0-30	ORBR	70	10	20				130	150	140	X		6·1	50%	350	123	X	90
542	560			0-35	ORBR	80	5	15				100	105	145	X		8·1	10%	1725	16	X	80
543	580			0-30	BR	60	10	20	10			110	85	135	X		8·7	0%	1745	22	11	100
544	600			0-45	ORBR	60	10	20	10			115	130	125	X		9·1	45%	1710	38	X	65
545	620			0-30	ORBR	60	10	20	10			130	160	150	X		8·6	5%	1675	43	1	80
546	640			0-45	BRORR	80	10	10				135	125	155	X		7·2	5%	1850	38	2	100
547	660			0-30	DKBR	70	10	20				150	75	270	X		9·2	5%	1950	63	1	180
548	680			0-30	ORBR	70	10	20				135	75	230	X		9·3	5%	3250	39	2	330
549	700			0-150	R	70	10	20				125	70	145	X		9·2	5%	3700	64	1	220
550	720	B	HORZ	0-30	BRORR	80	5	10	5	TRAM		140	60	155	X		14·1	0%	8000	230	X	125
551	740			0-20	BR	70	10	20		TRAM		100	55	145	X		9·6	0%	4750	100	X	100
552	760			0-30	BRYL	60	10	30				85	105	245	X		22·1	0%	3·0%	156	X	85
553	780	B	HORZ	0-20	BR	60	10	20	10	RIVER		210	335	625	X		8·3	5%	6800	43	X	85
554	800			0-500	RBR	70	10	20				180	130	400	X		12·1	5%	4300	17	X	55
555	820	B	HORZ	0-150	RBR	70	10	20				166	130	415	X		10·2	5%	1375	3	X	105
556	374840	B	HORZ	0-30	ORBR	60	10	20	10			175	145	375	X		9·1	0%	1125	16	X	115

[redacted] Co. of Australia Ltd

GEOCHEMICAL SAMPLE DATA SHEET

626138

Project : Mt. Black
Locality :
Grid Name : UATOMI GRID
Nominal Grid Azimuth :

Material : SOILS
Sample Method :
Sampled By : MALLISON CONTRACTORS
Date :

Size Fraction Analysed :
Analysed By :
Method :

SAMPLE NUMBER	Soil Location Data: Grid Line No. 5367100N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	COLOUR	Soil Composition Data: Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
39799	373700E			0·35	LTGY	70	10	20				5	10	25	1·0		2·90%	115	4	X	17
800	720			0·30	LTBRGY	70	10	20				5	20	25	0·5		1·90%	55	7	X	23
49501	740			1·20	GN	70	10	20				50	20	175	X		5·50%	115	10	X	32
502	760			0·45	BRGYOR	70	10	20				35	45	370	X		3·05%	150	9	X	16
503	780			0·70	ORBR	70	10	20				210	115	315	X		3·35%	110	8	X	6
504	800			0·45	ORBRGN	80	15	5				5	30	55	X		2·00%	30	4	X	39
505	820			1·20	ORBR	70	10	20				20	30	155	X		7·75%	140	7	X	35
506	840	B	HORZ	0·30		70	10	20				30	30	145	X		4·35%	140	7	X	18
507	860			0·75	ORBR	70	10	20				45	5	175	X		8·85%	85	5	X	13
508	880			0·90	OR	80	15	5				40	20	85	X		8·25%	75	36	X	15
509	900			0·115	BR	70	10	20				40	25	150	X		6·55%	175	27	X	14
510	920			0·95	LTBRORGR	70	10	20		CREEK		30	50	135	X		3·60%	95	9	X	10
511	940			0·60	LTBR	70	10	20				115	20	175	X		7·65%	250	20	X	6
512	960			0·55	ORRDBR	80	10	10				25	25	150	X		6·70%	170	8	X	6
513	980			0·75	ORBR	70	10	20				40	25	190	X		6·05%	180	8	1	6
49514	374000			0·45	GRBRORGR	70	10	20				35	30	155	X		3·15%	150	11	X	8
515	020			0·75	GY	70	10	20				X	15	110	X		5·70%	55	5	X	3
516	040			0·55	YLBR	60	20	20				5	15	110	0·5		1·05%	155	8	X	2
517	060			0·40	YLBR	70	10	20				30	255	25	X		3·45%	130	16	X	26
518	080	B	HORZ	0·350	RGYGN	90	10					5	20	115	X		1·40%	1910	13	X	
519	100			0·40	LTGYBR	70	10	20				5	20	115	X		6·60%	220	51	X	11
520	120			0·30	LTBR	40	20	30	10			X	10	5	X		4·50%	110	X	X	11
521	140			0·25	LTBR	60	10	20	10			X	15	5	X		12·50%	130	X	X	
522	160			1·30	GNYLOR	70	10	20				15	30	135	X		3·25%	190	18	X	1
523	180			0·30	ORBR	70	10	20		CREEK		40	50	185	X		3·30%	280	32	1	1
524	200	B	HORZ	0·30	LTBR	60	10	20	10			30	65	180	X		2·55%	520	23	X	2
525	220			0·20	LTBR	70	10	20				15	30	150	X		3·65%	150	15	X	
526	240	B	HORZ	0·40	LTBR	50	20	30		CREEK		25	175	105	X		4·05%	3350	19	X	12
49527	374260			0·30	LTBR	70	10	20				35	120	165	0·5		4·20%	310	24	1	2

EZ Co of N Asia Ltd
Hobart Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626139

Project : Mt. Black
Locality :
Grid Name : NATONE GRID
Nominal Grid Azimuth :

Material : SOILS
Sample Method :
Sampled By : MALLISON CONTRACTORS.
Date :

Size Fraction Analysed :
Analysed By :
Method :

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
9585	5366900N / 373564E			0·25	GYBR	60	10	20	10			30	40	140	0·5		3·05%	160	X	2	20
586	580	B	HORZ	0·25	BR	60	10	20	10			115	130	135	X		2·30%	120	2	1	130
587	600			0·20	LTBR	70	10	20				5	25	85	X		2·00%	110	1	X	30
588	620	B	HORZ	0·30	ORBR	90	10					50	180	155	0·5		5·65%	150	1	X	65
589	640			0·15	BR	60	10	20	10			25	80	160	X		4·45%	320	1	X	40
590	660	B	HORZ	0·15	BROR	50	20	20	10			30	155	165	X		5·65%	230	1	X	45
591	680			0·30	BR	70	10	20				35	35	175	X		4·75%	190	1	X	45
592	700	B	HORZ	0·35	BRYL	75	10	5	10			35	70	165	X		6·05%	160	1	1	55
593	720	B	HORZ	0·15	BR	60	10	20	10			15	75	160	0·5		2·85%	160	1	X	35
594	740	B	HORZ	0·30	BRGY	60	20	20		CREEK		45	135	105	0·5		4·85%	150	1	X	35
595	760	B	HORZ	0·15	LTBR	60	10	20	10			110	105	145	0·5		3·45%	160	1	X	35
596	780	B	HORZ	0·30	YLBR	70	5	15	10			X	45	120	X		3·70%	120	1	X	40
597	800			0·30	LTBR	70	20	10				X	40	115	X		2·40%	130	2	X	30
598	820			0·35	LTGY	70	10	20				X	20	115	X		1·80%	110	1	X	25
599	840			0·40	LTBR	70	10	20				X	40	115	0·5		2·55%	115	2	X	50
9600	860			0·40	LTBR	80	10	10				20	60	150	X		4·20%	135	2	X	45

[redacted] Co of Aust Ltd
[redacted] Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626140

Project : Mt. Black
Geology :
Grid Name : NATONE GRID.
Nominal Grid Azimuth :

Material : SOILS
Sample Method :
Sampled by : MALLISON CONTRACTORS
Date :

Size Fraction Analysed :
Analysed By :
Method :

SAMPLE NUMBER	Sample Location Data: Grid Line No.	AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
123	367300N	375200E		HORZ	0·150	RBR	70	10	20		TRAM		535	105	450	0·5		14·0%	5400	29	X	50
124		180		HORZ	0·450	RBR	60	10	30				915	150	2400	0·5		5·25%	29100	30	X	40
125		160		HORZ	0·300	RBR	60	10	20	10	RIVER		460	500	3050	2·0		7·80%	27150	41	1	35
126		140		HORZ	0·200	BR	30	20	40	10			1115	1130	8210	0·5		6·00%	30150	116	1	125
127		120			0·300	RBR	70	10	20				1135	1105	2350	0·5		8·50%	14400	120	X	180
128		100			0·350	BROR	60	10	30				1610	5135	9100	1·0		7·30%	32100	136	X	105
129		080		HORZ	0·300	DKBR	60	10	20	10			180	4125	2180	0·5		4·80%	18915	121	X	55
130		060		HORZ	0·350	BR	90	5	5				1145	3110	10110	0·5		6·00%	28450	127	1	70
131		040		HORZ	0·200	RBR	70	10	20				2105	5130	6900	1·0		7·25%	25150	132	1	95
132		020		HORZ	0·450	RBR	70	10	20				1655	1445	7915	1·5		4·30%	11150	60	1	100
133	375000			HORZ	0·150	DKBR	40		40	20			80	2010	240	0·5		2·10%	3180	110	1	40
134	374980			HORZ	0·200	BR	50	10	30	10			65	2120	2130	X		5·05%	9160	117	2	85
135		960		HORZ	0·200	BR	60	10	20	10			165	2155	11150	X		4·70%	31150	19	2	50
136		940		HORZ	0·200	RRDBR	70	10	10	10			165	170	1145	X		7·10%	3160	114	1	90
137		920		HORZ	0·150	DKBR	60	10	20	10			135	150	180	X		6·75%	4015	16	X	80
138		900		HORZ	0·300	BR	70	10	10	10			155	170	1195	X		8·10%	4175	16	X	60
139		880		HORZ	0·150	BR	60	10	20	10			1100	910	1715	X		8·45%	12175	110	X	105
140		860		HORZ	0·300	RBR	70	10	10	10			1135	1135	4105	X		10·01%	14150	114	X	180
141		840			0·450	RBR	70	10	20				1155	1140	4140	X		10·15%	15251	112	1	190
142		820		HORZ	0·300	RBR	60	10	20	10			1145	1180	3110	X		10·10%	16715	9	1	135
143		800			0·250	BR	70	10	20				1110	1140	3225	X		9·50%	13550	8	X	120
144		780		HORZ	0·300	BR	60	10	20	10			180	1215	2100	X		8·65%	18651	113	X	125
145		760			0·300	RBR	70	10	20				1105	1115	2145	X		8·14%	15550	9	1	185
146		740		HORZ	0·350	RBR	70	10	20				1125	1160	3100	X		11·0%	21751	117	1	200
147		720		HORZ	0·200	BR	60	10	20	10	RIVER		140	1170	2120	X		8·10%	15400	120	1	200
148		700		HORZ	0·150	GYBR	60	20	20				110	15	125	X		12·50	1300	112	X	5
149		680			0·300	GYBR	70	10	20				15	120	120	X		1·15%	1200	9	1	15
150		660			0·400	RBR	70	10	20				125	140	1135	X		6·45%	10100	112	X	185
151	374640				0·300	LTBRGY	70	10	20		TRAM		119	130	1145	X		2·00%	6500	12	2	95

≅ Z Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626141

Project : Mt Black
Locality :
Grid Name : Ring River
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : G.B. + B.M.
Date : 23/7/82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 5600N Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
38586	374560	53	3	0·15	BR	50	15	35		TRAM		60	90	190	x	40	6·60%	800	18	x	
587	560	53	3	0·50	ORBR	65	10	20	5	TRAM		30	40	95	x	30	4·90%	230	11	x	
588	540	53	3	0·15	BR	70	20	10				20	40	70	x	45	4·10%	550	8	x	
589	520	53	3	0·10	GY BR	60	20	10	10			20	60	85	x	45	3·85%	260	9	x	
590	500	53	3	0·30	ORBR	85	10	5				20	45	75	x	45	5·40%	90	10	x	
591	480	53	3	0·45	CRORBR	100				STICK TRAM		5	25	20	x	25	1·80%	115	6	x	
592	460	53	3	0·15	DKBR	35	10	40	15	SOAK		30	100	160	x	30	4·65%	1900	12	x	
593	440	53	3	0·10	GY BRGN	65	5	20	10			20	50	70	x	30	2·70%	715	10	x	
594	420	53	3	0·70	ORGY	95		5				30	30	60	x	30	4·70%	65	9	x	
595	400	53	3	0·60	OR	95		5				25	30	50	x	25	4·60%	355	12	x	
596	380	53	3	0·20	OR	95		5				20	40	45	x	30	4·60%	50	6	x	
597	360	53	3	0·40	CRORBR	90	5	5				10	30	50	x	30	4·40%	65	9	x	
598	340	53	3	0·20	ORBR	85	5	10				10	35	25	x	35	3·50%	25	9	x	
599	320	53	3	0·20	ORBR	80	5	10	5			10	50	30	x	35	2·80%	45	9	x	
38600	374300	53	3	0·60	OR	95	5	10				45	70	90	x	40	5·75%	225	12	x	
		53	3																		
		53	3																		
38757	374280	53	3	0·20	BR	85	5	10				10	25	60	x	250	2·60%	175	6	x	
758	260	53	3	0·20	ORDKBR	75	10	15				20	30	40	x	95	4·30%	75	12	x	
759	240	53	3	0·35	DKBR	50	20	30				75	70	95	2·5	60	6·05%	3900	95	x	
760	220	53	3	0·15	ORBR	60	10	30				145	30	65	x	65	8·20%	1150	92	x	
761	200	53	3	0·20	GYORBR	70	10	15	5			55	55	45	x	90	5·90%	230	70	x	
762	180	53	3	0·40	OR	85	5	10				30	35	25	x	90	6·55%	45	99	x	
763	160	53	3	0·30	BR	75	5	15	5			10	5	20	x	60	3·40%	20	7	x	
764	140	53	3	0·50	CRDKBR	85	5	5	5			25	10	55	x	105	8·05%	50	9	x	
765	120	53	3	0·40	BR	75	5	15	5			30	10	45	x	70	6·40%	40	6	x	
38766	374100	53	3	0·25	BR	80	10	10				10	10	20	x	40	3·95%	20	8	x	
		53	3																		
		53	3																		
		53	3																		

≡Z Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626142

Project : MT BLACK
Locality :
Grid Name : RING RIVER
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : G.B. + B.M.
Date : 2-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Cd	Fe %	Mn	As	Sn	W
38767	367200N / 374800	5313	3	0-25	LTBRYL	90	5	5		TR ANS		15	20	30	x	10	2·60%	160	11	x	
768	660	5313	3	0-15	BR	60	5	30	5	CRK		30	50	35	x	20	4·10%	100	20	x	
769	640	5313	3	0-25	BR	75	5	15	5			5	25	15	x	10	1520	15	7	x	
770	620	5313	3	0-40	ORCR	85	5	10				20	20	20	x	10	2·80%	15	12	x	
771	600	5313	3	0-35	YL	95		5				5	15	10	x	15	2·00%	5	8	x	
772	580	5313	3	0-45	ORCR	90	10					5	30	15	x	25	1·70%	15	9	x	
773	560	5313	3	0-35	LTBRORCR	70	10	20				15	20	35	x	30	2·35%	230	10	1	
774	540	5313	3	0-40	OFWH	20	20	60				5	15	15	x	10	2150	15	6	1	
775	520	5313	3	0-50	WHBR	15	20	65				x	5	20	x	5	1200	40	x	x	
776	500	5313	3	0-35	LTOR	95	5					15	195	30	x	20	2·55%	15	20	1	
777	480	5313	3	0-35	BRLTBR	85	15		5			x	175	15	x	25	9·50%	15	11	x	
778	460	5313	3	0-35	LTBRYL	60	5	35				20	110	85	x	30	2·15%	30	12	x	
779	440	5313	3	0-70	OR	80	5	15				25	100	75	x	30	6·00%	95	11	x	
780	420	5313	3	0-30	LTBRORCR	75	10	15				x	30	30	x	10	2·05%	35	6	x	
781	400	5313	3	0-35	OR	75	5	20				10	30	40	x	25	4·60%	50	9	x	
782	380	5313	3	0-80	OR	95		5				20	30	65	x	55	5·20%	60	12	x	
783	360	5313	3	0-35	OR	65	5	30				20	25	50	0·5	40	4·15%	80	11	x	
784	340	5313	3	0-35	PLYL	90		10				15	25	45	x	35	3·95%	70	8	x	
785	320	5313	3	0-20	BR	75	5	15	5	CRK		30	50	55	0·5	50	3·35%	380	20	x	
786	300	5313	3	0-85	ORYL	95	5					30	20	60	x	45	5·75%	55	11	x	
787	280	5313	3	0-20	ORPLYL	65	10	25				25	30	70	x	45	3·10%	75	11	x	
788	260	5313	3	0-05	LTBR	75	10	15				20	45	105	0·5	40	3·60%	715	13	x	
789	240	5313	3	0-30	BR	85	5	10				20	40	45	x	30	2·20%	75	21	x	
790	220	5313	3	0-40	LTBR	75	5	20				10	20	20	x	25	1·50%	25	11	x	
791	200	5313	3	1-20	OR	95		5				25	10	25	x	35	2·30%	35	16	x	
792	180	5313	3	0-20	OFWH	10	20	70				x	x	15	x	20	1050	5	4	x	
793	160	5313	3	0-65	ORCRBR	85	5	10				x	10	10	x	15	3000	10	6	1	
794	140	5313	3	0-35	BLGY	75	15	10		SOAK		15	30	40	x	85	1·25%	30	12	x	
795	120	5313	3	0-30	LTOR	70	10	15				5	5	15	0·5	20	1·50%	15	8	x	
796	374100	5313	3	0-35	LTBR	70	10	20				x	5	110	x	30	3350	10	9	x	

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Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626143

Project : MT. BLACK
Locality :
Grid Name : RING RIVER
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : G.B. + B.M.
Date : 2-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
38797	357200N / 374060	513	3	0·15	BR DK BR	90	5		5		Arc	20	125	30	X	45	2·60%	30	8	X	
98	060	513	3	0·35	LT BR BR	70	5	20	5			5	110	115	X	20	4550	30	5	X	
99	040	513	3	0·70	LT OR	45	5	45	5			10	X	115	X	25	1·50%	40	6	X	
38800	374020	513	3	0·35	LT BR CR	85	10	5				5	15	15	X	20	3350	10	5	X	
		513	3																

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GEOCHEMICAL SAMPLE DATA SHEET

626144

Project : MT. BLACK
Locality :
Grid Name : RING RIVER
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : G.B.T.B.M.
Date : 3-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Grid Line No	AMG CO-ORDINATES NORTHING	AMG CO-ORDINATES EASTING	DEPTH	COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
												METAL CONTENT (ppm. unless specified)									
40184	3670000N	374700	5533	0·15	BR	45	50	45	5			65	185	320	X	90	5·95%	6900	71	X	
185		6800	5533	0·85	ORBR	75	20	5				140	50	175	1·0	565	13·5%	6800	34	X	
186		6600	5533	0·55	BRCRGN	85	10	5				160	45	225	0·5	475	11·5%	2300	27	X	
187		6400	5533	0·35	BROR	85	10	5				160	70	310	0·5	340	9·70%	1250	58	X	
188		6200	5533	0·45	ORBRCR	65	25	5				155	75	165	0·5	180	9·25%	300	82	X	
189		6000	5533	0·60	BR	85	10	5				240	45	175	X	130	9·40%	1800	23	X	
190		5800	5533	0·60	BRDKBR	75	15	5				225	75	165	X	90	8·05%	1900	26	X	
191		5600	5533	0·65	CRBR	85	10	5				270	35	140	1·0	135	9·90%	1100	28	X	
192		5400	5533	0·20	BR	65	30			CREEK	'B'	105	95	110	0·5	100	6·30%	4450	25	X	
193		5200	5533	0·15	DKBR	55	35	5		CREEK	B	195	210	95	8·0	115	4·80%	9100	46	X	
194		5000	5533	0·30	LTBR	60	30			CREEK		30	80	60	0·5	45	3·50%	1050	24	X	
195		4800	5533	0·40	LTBR	90	5	5		CREEK		30	60	50	X	40	3·35%	730	5	X	
196		4600	5533	0·15	BRDKBR	80	15	5			'B'	35	95	55	0·5	50	4·10%	2400	39	1	
197		4400	5533	0·20	ORDKBR	95		5		CREEK		20	55	35	X	55	2·80%	200	19	X	
198		4200	5533	0·25	BRDKBR	60	25	10		CREEK	'B'	20	105	85	0·5	35	3·10%	260	19	X	
199		4000	5533	0·25	LTBR	100				CREEK		15	30	35	X	45	2·10%	70	11	X	
40200		374380	5533	0·40	BRLTBR	80	15	5				15	15	30	0·5	30	2·45%	70	X	X	
			5533																		
			5533																		
41867		374360	5533	0·35	LTBR	70	25					X	15	20	X	15	1·15%	35	5	X	
68		340	5533	0·20	ORLTBR	75	20					X	15	25	0·5	15	1·30%	40	7	X	
69		320	5533	0·40	OKBR	80	15	5				5	15	30	X	30	3·45%	80	10	X	
70		300	5533	0·25	LTBR	55	40					15	20	40	X	50	4·00%	65	9	X	
71		280	5533	0·45	LTBR	80	15	5				5	X	25	X	25	1·45%	30	9	X	
72		260	5533	0·40	OR	95		5				25	110	85	X	35	6·00%	115	102	X	
73		240	5533	0·40	YLOR	90	5	5				40	40	135	X	30	3·80%	95	27	X	
74		220	5533	0·35	LTBR	65	10	25		CREEK		30	55	115	0·5	25	3·80%	370	28	X	
75		200	5533	0·30	LTBR	85	10	5				25	95	90	X	45	4·15%	3700	26	X	
76		180	5533	0·30	OR	65	5	30				15	200	230	X	50	6·50%	1800	20	X	
41877		374160	5533	0·35	YL	70	5	25				20	65	95	X	50	6·40%	1050	10	X	

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Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626145

Project : Mt. BLACK
Locality :
Grid Name : RING RIVER
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : GB + BM
Date : 4-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
5	367000N																					
4178			513	3741140	0-45	OR	95		5				25	25	80	X	40	5.05%	120	11	X	
879			513	3741120	0-35	LTBROR	80	15	5				10	15	15	X	115	1.80%	40	23	X	
880			513	3741100	0-50	ORLTBR	75	20	5		CREEK		X	X	10	0.5	20	1.10%	10	11	X	
881			513	3 0880	0-45	OR	95	5					10	X	35	X	30	3.20%	55	20	X	
882			513	3 0860	0-60	OR	95	5					15	X	60	X	40	5.90%	130	22	X	
883			513	3 0840	0-50	LROR	95	5					35	10	40	X	20	5.10%	330	25	X	
884			513	3 0820	0-30	BRCR	90	10					25	30	40	X	55	5.65%	185	20	X	
885			513	3741000	0-60	RDBR	75	5	20				30	160	165	X	75	6.70%	210	19	X	
536			513	3739800	1-00	OR	80	10	10				30	25	70	X	40	9.60%	180	71	X	
887			513	3 9600	0-40	OR	100						20	15	45	0.5	45	2.90%	15	23	X	
888			513	3 9400	0-55	ORLTBR	85	10	5				25	20	50	0.5	45	2.65%	15	23	X	
889			513	3 9200	0-10	ORLTBR	85	10	5				10	270	20	0.5	50	2.15%	15	72	X	
4190			513	3739000	0-35	OR	90	5	5				X	5	10	X	45	6.30%	5	7	X	
891			513	3 8800	0-40	LTBR	75	5	20				20	15	20	X	40	2.85%	10	11	X	
892			513	3 8600	0-15	BR	90		5	5			10	20	25	0.5	30	1.20%	10	7	X	
893			513	3 8400	0-35	OR	95		5				15	20	35	X	75	5.30%	30	10	X	
4194			513	3738200	0-60	CRYL	90	5	5				10	X	20	X	85	1.65%	25	9	X	
			513	3																		
			513	3																		
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Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626146

Project : MT BLACK
Locality :
Grid Name : BING RIVER EX.
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : GB & BM
Date : 5-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 36720'CN; AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
4L895		513	373740	0·75	CR OR	75	10	15				5	x	20	x	160	9·90%	5	5	x	
896		513	3 7600	0·25	BR	70	10	20				10	10	55	x	460	1·45%	125	5	x	
897		513	3 7520	0·35	OR	85	5	10				5	10	25	x	85	2·30%	10	6	x	
898		513	373800	0·65	OR	85	5	10				50	25	135	x	135	7·30%	120	11	x	
899		513	3 7820	0·70	OR BR	95	5					40	30	130	x	120	5·65%	85	9	x	
4L900		513	3 7840	0·35	LT BR	80	10	10		CREEK		40	80	90	x	130	6·05%	140	63	x	
		513	3																		
		513	3																		
		513	3																		
4L896		513	373860	0·65	YL OR	55	10	35				30	25	45	x	50	4·90%	50	11	x	
961		513	3 7880	0·80	GR BR	80	10	10				15	15	50	x	45	4·50%	65	11	x	
962		513	3 7900	0·20	LT BR	75	10	10				10	10	25	x	50	1·70%	25	9	x	
963		513	3 7920	0·45	OR	75	5	20				25	25	35	x	100	4·95%	45	17	x	
964		513	3 7940	0·40	YL OR	90	5	5				40	30	55	x	260	5·30%	50	18	x	
965		513	3 7960	0·50	GN BL GY	65	15	20		SOAK CREEK		80	60	395	x	65	6·40%	375	12	x	
966		513	3 7980	0·40	OR	95	5			CREEK		20	40	60	x	50	3·05%	85	9	x	
967		513	374000	0·30	OR	90	5					20	25	40	x	50	3·25%	40	11	x	
		513	3																

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GEOCHEMICAL SAMPLE DATA SHEET

626147

Project : MT. BLACK
Locality :
Grid Name : BING RIVER
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : G.B & B.M.
Date : 5-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 36.74CON	Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
42965			53	3 74 03C	0·80	OR	85	5	10				30	10	40	X	30	4·10%	20	11	X	
7969			53	3 06C	0 35	ORBR	90	5		5			30	10	35	X	125	5·00%	45	9	X	
42970			53	3 04C	0 35	LTBRORG	65	5	30				35	20	95	X	75	5·05%	435	9	X	
971			53	3 02C	0 35	ORBR	75	5	20				10	10	35	X	95	4·30%	235	8	X	
972			53	3 74 00C	0 10	OR	ICE						15	15	30	X	60	5·45%	35	6	X	
973			53	3 73 98C	0·60	PLYL	95	5					20	15	35	X	65	4·20%	45	6	X	
974			53	3 73 96C	1 20	ORYL	95	5					35	20	95	X	55	5·70%	55	8	X	
975			53	3 94C	0 55	YLBR	90	10					20	20	35	X	45	2·30%	20	4	X	
976			53	3 92C	0 35	LTBR	75	5	20				15	30	35	0·5	55	2·55%	25	7	X	
977			53	3 73 90C	0 25	BLGY	85		15				25	45	50	X	55	3·30%	220	8	X	
978			53	3 73 88C	0 25	OR	90		10				15	30	35	X	55	3·45%	60	9	X	
979			53	3 73 86C	0 25	ORORGY	80		20				20	30	45	0·5	55	2·55%	65	8	X	
42980			53	3 84C	0 15	BR	80	10	5	5		Orc	5	20	40	0·5	90	1·55%	65	5	X	
7981			53	3 82C	0 25	CRLTBR	90		10				10	5	25	X	35	2·45%	55	2	X	
982			53	3 73 80C	0 35	CROR	85	5	10				10	5	40	X	40	4·95%	240	2	X	
983			53	3 78C	0 25	LTBRORG	50	5	15		POSS BE CAGEN	6" A"	10	30	130	X	1000	3·95%	675	5	X	
984			53	3 76C	0 15	BRLTBR	60	5	25	10			20	20	60	X	305	1·95%	260	3	X	
985			53	3 74C	0 20	BRDKBR	80	5	10	5			15	10	60	X	565	2·65%	140	4	X	
986			53	3 72C	0 20	OR	75	5	20				15	10	60	X	130	4·05%	250	5	X	
42987			53	3 70C	0 35	OR	100						15	10	65	X	105	4·60%	120	4	X	
			53	3																		
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GEOCHEMICAL SAMPLE DATA SHEET

626148

Project : MT. BLACK
Locality :
Grid Name : RING RIVER GRID
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : BM & GB
Date : 6-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 366,800N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology
42788		53	374,850	0-20	ORBR	70	5	20	5	TRAM	
989		53	3 860	0-70	ORBR	70		25	5		
42990		53	3 840	0-20	RDORBR	65		30	5	ROCK TRACE	
991		53	3 820	0-10	BR	70	5	5	20		'B'
992		53	3 800	0-70	GRBR	85		15			
993		53	3 780	0-50	DRBRGN	80	5	10	5		
994		53	3 760	0-30	BR	60	5	30	35		
995		53	3 740	0-40	BRDKBR	75	5	15	5		
996		53	3 720	0-75	BRDKBR	65		30	5		
997		53	374,700	0-45	BRGNBR	65		35			
998		53	3 680	0-30	GRBR	85	5	10			
999		53	3 660	0-40	BRGNGR	75	5	20			
43000		53	374,640	0-35	GNGRBR	80	5	15			
		53	3								
		53	3								
43332		53	374,620	0-35	BRGYGR	40	5	55			
333		53	3 600	0-40	ORBR	85	5	10			
334		53	3 580	0-40	BRDKBR	55	5	35			B
335		53	3 560	0-35	DKBR	60		30	10		B
336		53	3 540	0-50	BRDKBR	75	5	15			
337		53	3 520	0-65	ORBR	85	5	10		TRENCH	
338		53	374,500	0-75	ORBR	90	5	5			
339		53	3 480	0-45	ORBR	80		20			
43340		53	3 460	0-25	BROFWH	60	10	30		BEDDING TRENCH	
43341		53	374,440	0-30	GYDKBR	80	10	5	5		
		53	3								
		53	3								
		53	3								
		53	3								
		53	3								

SAMPLE NUMBER	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	As	Cr	Fe %	Mn	As	Sn	W
42788	245	195	635	x	130	10·0%	3500	30	x	
989	325	255	840	x	150	12·5%	5400	50	x	
42990	205	225	970	x	175	10·0%	3350	26	x	
991	205	220	620	x	180	10·0%	2450	42	x	
992	430	310	1200	x	175	12·5%	2050	69	x	
993	170	115	340	x	75	10·0%	1600	75	x	
994	115	15	100	x	45	7·90%	745	9	x	
995	90	40	145	x	50	10·0%	985	13	x	
996	100	110	295	x	110	8·40%	5500	20	x	
997	65	90	175	x	120	5·15%	755	69	x	
998	50	110	60	x	175	4·15%	165	52	x	
999	45	115	105	x	185	5·60%	1000	19	x	
43000	115	25	180	x	75	7·70%	940	14	x	
43332	110	40	110	x	65	7·60%	185	17	x	
333	175	65	190	x	205	9·05%	2400	190	x	
334	110	65	250	0·5	90	8·00%	4100	44	x	
335	80	55	135	x	140	7·50%	800	15	x	
336	110	60	150	x	165	9·05%	3250	17	x	
337	40	x	60	x	90	5·95%	595	13	x	
338	25	5	40	x	70	5·10%	170	5	x	
339	20	x	35	x	60	5·15%	185	3	x	
43340	x	x	10	x	25	2050	20	x	x	
43341	x	15	15	x	5	800	5	2	x	

≡Z Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626149

Project : MT. BLACK
Locality :
Grid Name : RING RIVER GRID.
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : BM & GA
Date : 12-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	AMG CO-ORDINATES: NORTHING	AMG CO-ORDINATES: EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (p.p.m. unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
43342	36600N	513	374940	0-20	ORBR	75	5	15	5	Road		165	55	210	0.5	35	10.0%	3200	17	X	
343		513	372c	0-35	YLBR	60	10	30				55	35	40	X	40	4.60%	850	12	X	
344		513	3900	0-20	ORBR	35	5	60				90	20	135	0.5	45	4.35%	285	18	X	
345		513	3880	0-15	YLBR	40	10	50			Jnc	75	40	70	X	60	5.80%	395	8	X	
346		513	3860	0-45	GNBR	75	10	10	5			50	30	50	X	50	4.65%	425	13	X	
347		513	3840	0-15	BR	95	5					30	50	50	X	55	3.75%	385	15	X	
348		513	3820	0-15	BRLTOR	75	5	20				105	75	140	0.5	115	5.55%	630	20	X	
349		513	3800	0-20	ORBR	75	5	20				115	80	185	X	180	7.35%	665	14	1	
43350		513	374780	0-20	ORBR	85	5	10				230	135	285	X	190	7.25%	930	17	1	
351		513	3760	0-30	ORBR	95		5				255	165	360	X	140	8.15%	620	20	X	
352		513	3740	0-30	OR	80	5	15				180	110	285	X	125	7.25%	940	13	X	
353		513	3720	0-50	CROA	90	5	5				30	20	30	X	25	2.40%	40	7	X	
354		513	374700	0-15	DKBRBL	45	10	25	10		Adb & Amb	20	20	45	0.5	15	7450	25	5	X	
355		513	3680	0-20	DKBRBR	70	5	5	20			10	40	50	0.5	15	4050	20	3	X	
356		513	3660	0-20	LTBR	70	10	20				10	25	15	X	15	6850	5	3	X	
357		513	3640	0-35	PLGNBU	75	10	15				X	115	10	X	25	3000	5	9	1	
358		513	3620	0-35	PLBUGY	60	15	20				5	10	10	X	10	1500	5	X	X	
359		513	374600	0-40	ORYL	90	5	5				5	20	15	X	40	1.90%	10	6	X	
43360		513	3580	0-70	YLBR	70	10	20		Water Shed		25	65	40	0.5	95	2.70%	55	19	X	
361		513	3560	0-40	BL	80	5	15		Water Shed		30	65	50	0.5	70	4.05%	1700	22	X	
362		513	3540	0-40	ORBR	60	10	30				15	20	35	X	35	2.90%	275	13	X	
363		513	3520	0-15	BR	25	10	60	5			20	60	30	X	130	1.55%	160	13	X	
364		513	374500	1-35	OR	75	10	15		Water Shed		90	215	170	X	160	9.75%	1200	180	1	
365		513	3980	0-60	BROR	65	10	25				85	275	150	0.5	135	5.30%	310	110	X	
366		513	3960	0-60	ORBR	95	5			Creek Shed		75	170	100	0.5	125	5.30%	1250	77	X	
367		513	3940	0-90	OR	90	5	5				60	75	80	X	200	6.10%	415	29	X	
368		513	3920	0-45	ORBR	65	5	30				90	265	200	X	160	7.45%	360	190	X	
43369		513	374ACC	0-60	RDBR	80	5	15				150	420	215	3.0	170	9.70%	8300	83	X	
		513	3																		
		513	3																		

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626150

Project : MT BLACK
Locality :
Grid Name : RING RIVER GRID
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : G B & B M
Date : 13-8-87

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
43370	36:7:20 ON		53	3 75,140	0-60	BR	35	5	60		Black Sandy Clay	"B"	130	40	305	X	65	11·0%	5700	35	X	
371			53	3 1,120	0-10	BRDKBR	60	10	20	10	Chalky Brown		70	35	250	0·5	35	6·95%	2900	10	X	
372			53	3 1,100	0-35	ORBR	70	10	10	10			100	360	695	X	85	9·80%	1450	13	X	
373			53	3 1,080	0-65	BRDKBR	80	5	10	5			135	745	1550	X	95	7·85%	6150	15	X	
374			53	3 1,060	0-20	ORBR	80	5	10	5			75	495	510	X	110	8·30%	1650	13	X	
375			53	3 1,040	0-15	BRDKBR	75	5	15	5		"B"	75	380	390	X	80	5·55%	1850	17	X	
376			53	3 1,020	0-75	OR	75		25				395	290	910	X	125	11·0%	1800	19	X	
377			53	3 75,000	0-10	DKBR	65	5	15	15		A/B	130	95	150	X	60	6·20%	1350	8	X	
378			53	3 74,980	0-15	DKBR	65	10	5	20		"A"	85	125	120	X	40	4·50%	595	9	X	
379			53	3 74,960	0-10	PLBR	60	5	25	10		"A"	115	45	45	X	40	4·20%	185	3	X	
43380			53	3 74,940	0-30	PLBRRD	55	5	35	5			110	5	25	X	55	3·90%	175	X	X	
381			53	3 74,920	0-25	ORBRRD	85	5	10			"B"	100	30	85	X	95	9·90%	285	4	X	
382			53	3 74,900	0-80	ORBR	75		25				225	110	380	X	165	11·5%	500	9	1	
383			53	3 74,880	0-90	ORBR	70		30				185	80	320	X	130	10·0%	2250	10	X	
384			53	3 860	0-60	BR	80		20				160	170	310	X	105	10·0%	4700	6	1	
385			53	3 840	0-50	BRGNRD	65		30	5			140	80	270	X	110	10·0%	2550	6	X	
386			53	3 820	0-80	ORBR	65		35				125	55	275	X	345	10·5%	2250	8	X	
387			53	3 74,800	0-70	CRORBR	70		30				160	80	315	X	180	10·0%	1300	17	X	
388			53	3 780	0-50	BR	90		10				145	85	260	X	130	9·50%	2050	19	X	
389			53	3 760	0-40	GNBRRD	80	5	15				115	70	235	X	220	10·0%	2500	17	X	
43390			53	3 740	0-60	ORBR	65		35				125	80	210	X	120	8·70%	1150	9	X	
391			53	3 720	0-65	BRDKBR	85	5	10		Black Brown		305	810	280	X	30	5·40%	875	230	X	
43392			53	3 74,700	0-55	LTBRDR	80	10	10		Brown Yellow		20	25	40	X	15	1·30%	35	8	1	
			53	3																		
			53	3																		
			53	3																		
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			53	3																		
			53	3																		
			53	3																		

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626151

Project : MT BLACK
Locality :
Grid Name : RING RIVER GRID
Nominal Grd Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : G.B. & B.M.
Date : 13-8-87

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	AMG CO-ORDINATES: NORTHING	AMG CO-ORDINATES: EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
43393	36740N	53	374600	0-35	OR	85	10	5				25	20	85	x	35	4·05%	325	9	x	
394		53	3 62C	0-35	YLOR	90	5	5				15	10	20	x	20	2·10%	65	7	x	
395		53	3 640	0-30	ROKBR	60	10	30				10	25	20	x	20	2·25%	95	7	x	
396		53	3 660	0-15	BRGYBR	50		30	20			10	20	30	x	15	8·00	45	4	x	
397		53	3 660	0-40	ORBR	50	5	40	5			30	30	75	x	60	3·55%	200	13	x	
398		53	374700	0-10	ORBR	65	10	15	10			30	20	45	x	25	2·90%	160	9	x	
399		53	374720	0-15	YLOR	90	5	5				25	15	55	x	30	3·20%	1550	9	1	
43400		53	374740	0-10	BR	55	5	40		AUGER	B4C	60	40	135	X	30	4·90%	3350	17	x	
		53	3																		
		53	3																		
		53																			
44628		53	374760	0-20	ORDKBR	45	10	40	5		B4C	45	145	280	x	30	4·20%	2000	22	1	
44629		53	3 7800	0-40	ORBR	65	5	30				65	115	250	x	55	6·40%	1350	23	x	
630		53	3 8000	0-15	BR	90	5	5			B4C	55	110	180	x	170	5·35%	1400	37	x	
631		53	3 8200	0-45	BR	75	5	20				175	290	345	x	155	9·25%	2000	16	x	
632		53	3 8400	0-35	ORBR	80	5	15				155	180	260	x	135	8·95%	1450	8	x	
633		53	3 8600	0-15	BR	60	10	20	10		B	90	85	195	x	90	7·15%	1250	8	x	
634		53	3 880	0-15	DKBROR	80	10	5	5			70	55	130	x	70	7·85%	570	9	x	
635		53	374900	0-10	BR	75		20	5		B4C	50	50	115	x	55	7·70%	550	7	x	
636		53	3 9200	0-30	BR	70	10	10	10		B	100	50	115	x	65	6·10%	240	8	x	
637		53	3 9400	0-15	ORBR	75	5	20				80	180	310	x	75	6·05%	745	15	x	
638		53	3 960	0-35	ORBR	75	10	15				50	85	145	x	60	6·60%	55	15	x	
639		53	374980	0-10	DKBR	50	5	15	30		A	65	85	140	x	90	9·65%	600	14	x	
44640		53	375000	0-70	OR	80	5	15				220	455	1400	x	95	10·0%	1400	23	x	
641		53	3 020	0-45	ORBR	85	5	10				140	170	465	x	90	8·95%	3000	16	x	
642		53	3 040	0-35	BR	40	10	50				100	720	530	x	120	8·65%	6300	14	x	
643		53	3 060	0-35	ORBR	60	5	30				85	115	310	x	255	9·90%	3500	14	x	
644		53	3 080	0-35	YLOR	75	5	15	5			155	80	170	x	120	9·65%	2400	17	x	
645		53	3175 100	0-10	ORYOR	80	5	15				105	85	140	x	255	10·0%	3500	25	x	
44646		53	3175 120	0-75	CR	85		15				135	145	170	x	255	11·0%	11850	116	x	

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626152

Project : MT BLACK
Locality :
Grid Name : RING RIVER GRID
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : B.M.a.G.G.
Date : 13-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
44647	36740CN		53	37514C	0.45	OR	75	5	20				120	40	160	X	200	10.0%	2900	14	X	
648			53	3 1660	0.55	ORBR	80	5	15				75	50	115	X	125	8.55%	670	14	X	
649			53	3 1800	0.55	ORBR	55	10	35				115	60	130	X	120	10.0%	1450	18	1	
44650			53	3 2000	0.20	ORBR	65	10	25				100	55	145	X	160	9.55%	2500	17	X	
651			53	3 2200	0.10	BR	75	10	15				140	85	190	X	140	9.55%	1850	15	X	
652			53	3 2400	0.15	ORBR	50	5	40	5	River		135	95	195	X	90	11.5%	3550	20	X	
653			53	3 2600	0.10	DKBR	70	5	20	5	Grass roots	B	55	115	110	X	35	6.20%	4400	19	X	
44654			53	3 752800	0.15	BRLTBR	45	30	20	5	Trans		115	35	125	1.0	30	5.25%	4550	15	X	

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626153

Project : MT BLACK
Locality :
Grid Name : Ring River Grid.
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : BM & GB
Date : 14-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 866800N / Grid Easting	AMG CO-ORDINATES: NORTHING	AMG CO-ORDINATES: EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
44655		53	3 7 4120	0.50	DKBRCR	20	25	50	5			10	X	25	X	15	5300	50	3	X	
656		53	3 400	0.35	CRBR	90		10				5	X	15	X	45	1.55%	15	3	1	
657		53	3 380	0.90	OR	95		5				50	10	45	X	90	5.20%	55	6	X	
658		53	3 360	0.40	OR	90		10				40	40	65	X	80	6.85%	145	18	X	
659		53	3 340	0.35	OR	60	10	30				40	35	105	X	740	5.05%	135	290	X	
44660		53	3 74320	0.45	OR	55	20	25				15	15	25	X	240	1.75%	25	28	X	
661		53	3 300	0.35	GYORBR	60	15	25				X	X	10	X	60	3700	10	15	1	
662		53	3 280	0.30	WHGYBR	25	16	60				X	5	10	X	30	1500	20	2	X	
663		53	3 260	0.30	GYBR	35	15	50				X	10	15	X	50	1050	10	X	X	
664		53	3 240	0.30	GYBR	35	15	50				X	X	10	0.5	40	800	10	X	X	
665		53	3 220	0.25	GYBR	35	15	50				X	10	15	X	45	950	10	X	1	
666		53	3 74200	0.20	CRGYBR	30	25	45				X	X	15	X	95	1800	30	4	1	
667		53	3 180	0.15	CRBR	50	10	40				X	X	10	0.5	45	300	5	2	1	
668		53	3 160	0.60	CRGY	90	5	5				X	30	10	X	15	2500	5	3	X	
669		53	3 140	0.65	ORBR	90	5	5				40	145	80	X	110	3.70%	165	23	X	
44670		53	3 120	0.30	CRORBR	75	5	20				25	195	75	X	335	2.95%	1900	23	X	
671		53	3 100	0.40	BRDKOR	55	15	30		CREEK		155	175	595	X	90	12.5%	3650	65	X	
672		53	3 080	0.95	OR	90		10				60	30	60	X	55	5.40%	70	9	X	
673		53	3 060	0.30	GYORBR	65	10	25				105	70	35	X	25	4.75%	135	62	X	
674		53	3 040	0.20	DKBR	60	10	25	5		Bic	20	45	60	X	45	3.40%	70	8	X	
675		53	3 020	0.25	BRPU	60	10	20	10			5	10	25	X	30	8400	35	2	X	
676		53	3 74000	0.30	BR	65		35				40	290	85	3.0	35	4.15%	60	53	1	
677		53	3 73980	0.25	BR	65	10	25				25	50	60	X	55	3.15%	45	13	X	
44678		53	3 73960	0.20	RDBR	65	10	10	15			25	35	40	X	25	5750	30	3	1	
		53	3																		
		53	3																		
		53	3																		
		53	3																		
		53	3																		
		53	3																		

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626154

Project : Mt Black
Locality :
Grid Name : Ring River Grid
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : G.B.A.B.M.
Date : 18-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
44/679	366600N		53	3774380	0.95	BRGR	45	5	50				190	60	275	X	115	7.10%	32000	23	X	
680			53	3 1360	0.30	BR	95		5				115	75	160	X	160	9.90%	30150	19	1	
681			53	3 340	0.20	BRDKBR	80		15	5			100	75	190	X	185	8.00%	29150	19	X	
682			53	3 320	0.15	BR	90		5	5			100	125	110	X	130	9.30%	22000	68	X	
683			53	3 300	0.35	ORBR	90		10				290	1400	315	0.5	120	10.5%	26150	670	X	
684			53	3 280	0.40	ORBR	85	5	10				195	445	465	X	115	9.45%	1550	170	X	
685			53	3 260	0.40	CRORBR	95		5				210	2850	140	X	30	5.85%	365	680	X	
686			53	3 240	0.25	PUBR	45	55	0				15	110	110	X	30	6.20%	175	23	X	
687			53	3 220	0.50	PUORBR	60	5	35				15	110	50	X	35	8.10%	155	72	X	
688			53	3 74200	0.30	CRBR	70	10	20				20	245	60	X	40	3.15%	190	82	2	
689			53	3 74180	0.80	CRBR	80	10	10				100	300	170	X	60	1.0.0%	540	1200	X	
44/690			53	3 74160	0.50	CRORBR	95		5				50	750	80	6.5	65	3.35%	70	220	5	
691			53	3 140	0.30	BRDKBR	70	10	15				40	115	60	X	75	3.00%	65	24	X	
692			53	3 120	0.40	GNBR	30	10	60				160	50	75	X	75	4.85%	145	23	X	
44/693			53	3 74100	0.70	GNBR	75		25				35	45	65	X	125	2.90%	70	19	1	
			53	3																

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626155

Project : MT BLACK
Locality :
Grid Name : RING RIVER GRID
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : B.M. & G.B.
Date : 18-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Cd	Fe %	Mn	As	Sn	W
	36700N																				
44694		513	374720	0-15	BR	50	10	30	10			220	100	650	x	45	2.80%	2.35%	240	1x	
695		513	374740	0-100	DKBRBK	60	10		30		A+B	1000	310	335	x	30	2.10%	1050	48	1x	
696		513	374760	0-40	ORBR	75	5	20				35	70	85	x	145	6.25%	185	115	x	
697		513	374780	0-45	ORBRRD	50		20				40	120	110	x	110	7.25%	230	8	x	
698		513	374800	0-60	ORBR	70		30				60	160	155	x	95	7.95%	360	13	x	
699		513	374820	0-35	ORBR	95		5				55	185	135	x	80	5.75%	195	9	x	
44700		513	374840	0-45	OR	90		10				90	205	180	x	95	7.85%	280	9	x	
		513																			
		513																			
45852		513	374860	0-45	DR	85	5	10				225	330	525	x	155	10.5%	340	19	x	
853		513	374880	0-45	KDORBR	90	5	5				50	55	130	x	45	2.65%	120	9	x	
854		513	374900	0-20	CRORBR	50	5	40	5			60	40	105	0.5	35	2.95%	195	5	x	
855		513	374920	0-20	BRDKBR	60	5	35				25	60	100	x	35	1.35%	25	9	x	
856		513	374940	0-60	ORBR	65	10	25				90	145	180	x	65	9.20%	410	17	1	
857		513	374960	0-40	ORBRCR	65	5	30				195	470	385	x	55	5.85%	535	15	x	
858		513	374980	0-15	GYORBM	70	5	25				30	35	85	x	70	3.40%	100	15	x	
859		513	375000	0-15	CRBR	65	5	25	5			10	40	60	x	45	3.25%	340	3	x	
45860		513	020	0-15	BRDKBR	65	10	20	5			35	50	60	x	40	5.55%	260	10	1	
861		513	040	0-35	OR	90		10				10	35	35	x	35	3.85%	65	7	x	
862		513	060	0-40	BRDKBR	65	10	5	20			95	230	285	x	40	5.60%	2650	21	x	
863		513	080	0-20	ORDKBR	50	10	40				230	195	370	x	65	9.65%	4400	19	x	
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626156

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GEOCHEMICAL SAMPLE DATA SHEET

Project : MT BLACK
Locality :
Grid Name : RING RIVER GRID
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : B.M.A.G.B.
Date : 18-8-82

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Cr	Fe %	Mn	As	Sn	W
45864	36800N		53	375000	0·45	GR	80	5	15				50	75	160	X	60	7·10%	1150	6	X	
865			53	374980	0·35	GR	50	15			5		25	120	85	X	70	4·10%	375	22	X	
866			53	374960	0·35	CKBR	90	5	5				20	80	65	X	60	4·30%	270	18	X	
867			53	374940	0·45	BR	90	5	5				25	100	80	X	60	3·50%	1050	19	X	
868			53	374920	0·30	ORBR	80	5	15				25	70	75	X	55	3·65%	355	16	X	
45869			53	374900	0·35	DKBR	80	5	5	10			180	150	305	X	80	10·0%	5100	63	1	

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GEOCHEMICAL SAMPLE DATA SHEET

626157

Project : Mt Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mattinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Amdel
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 5 365900N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frgs.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu ✓	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
4900 1	3737400E	53	B-HOR Z	1.00	LTBR	60	10	20	10			45	210	245	X		2.30%	1100	31	11	200
2	7200	53	B-HOR Z	0.20	DKBR	60	10	20	10	CREEK		30	180	110	0.5		1.70%	1450	230	11	255
3	7000	53	B-HOR Z	0.15	BR	60	10	20	10			60	120	90	X		1.40%	535	11	X	140
4	6800	53	3	0.50	LTBR	70	10	10	10			15	60	65	X		1.45%	55	11	X	170
5	6600	53	3	0.40	BR	60	10	20	10			20	70	60	0.5		4.75%	95	71	11	85
6	6400	53	3	0.25	BR	70	10	20				10	110	75	X		67.50	20	30	X	100
7	6200	53	B-HOR Z	0.15	LTBR	60	10	20	10			5	20	30	X		17.50	5	2	X	30
8	6000	53	3	0.25	WH	70	10	20				X	5	15	X		13.00	X	3	X	10
9	5800	53	3	0.30	LTBR	70	10	20				5	35	35	0.5		7.50	25	11	X	200
10	5600	53	3	0.25	LTBR	50	20	20	10			5	35	20	X		8.50	X	3	X	110
11	5400	53	3	0.30	LTBR	70	10	20				X	20	20	X		9.50	X	1	X	120
12	5200	53	3	0.25	PLBR	60	20	20				10	30	35	X		3.00	15	6	11	150
13	5000	53	B-HOR Z	0.20	LTBR	60	10	20	10			5	30	35	0.5		1.35%	X	2	X	200
		53	3																		
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GEOCHEMICAL SAMPLE DATA SHEET

626158

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
	3650N																				
4901	3730E	5330	3	0·45	GY	80	10	10				20	55	35	X		1·30%	110	110	X	50
15		5440	3	0·40	LTBR	70	10	20				10	80	30	X		3·25%	95	210	X	45
16		5460	3	0·20	BROR	70	10	10	10			10	35	20	X		2·05%	60	130	X	30
17		5480	3	0·60	LTBR	70	10	20				120	90	105	X		5·00%	460	380	X	40
18		5500	3	0·40	DKGYOR	90	10					N/S	N/S	N/S	N/S		N/S	N/S	N/S	N/S	N/S
19		5520	3	0·60	LTBR	70	10	20				35	35	85	X		6·00%	140	390	X	135
20		5540	3	0·25	BROR	70	10	10	10			20	65	75	X		2·95%	465	190	X	110
21		5560	3	0·75	LTBR	70	10	20				65	55	110	X		10·15%	215	450	X	140
22		5580	3 B-HORZ	0·20	BR	70	10	10	10	CREEK		60	75	65	X		3·00%	1560	230	X	50
23		5600	3	0·30	ORBR	70	10	20				10	40	55	X		6·40%	745	280	X	50
24		5620	3	0·50	ORYL	80	10	10				5	15	45	X		5·20%	465	90	X	50
25		5640	3 B-HORZ	0·15	LTBR	60	10	20	10			35	115	60	0·5		9350	465	120	11	210
26		5660	3	0·75	ORBLGY	70	10	20				5	10	5	0·5		3350	55	40	X	X
27		5680	3	0·30	LTBR	70	10	20				X	30	15	0·5		800	55	30	X	X
4902	8 3737	5700	3	0·20	LTBR	60	10	20	10			X	45	15	X		1300	115	30	X	X
29		5720	3	0·40	BR	70	20	10		CREEK		45	130	85	X		7·35%	545	70	X	65
30		5740	3	0·30	DKGYBL	60	20	20				10	35	10	X		3700	110	180	X	115
31		5760	3 B-HORZ	0·30	BR	60	10	20	10	CREEK		55	85	145	0·5		4·85%	535	270	X	100
32		5780	3	1·20	GNBR	80	10	10				55	70	70	0·5		4·80%	70	400	X	40
33		5800	3	0·40	LTBR	70	20	10				30	60	20	X		10·00%	35	320	X	20
34		5820	3	0·20	LTYLBR	70	10	20				10	20	15	0·5		10·15%	140	170	X	30
35		5840	3	0·30	LTBR	70	10	20				X	30	10	X		4500	110	170	X	110
36		5860	3 B-HORZ	0·30	LTBRWH	60	10	20	10			10	25	20	0·5		4300	30	130	X	15
37		5880	3 B-HORZ	0·15	LTBR	50	20	20	10			5	30	10	X		1400	110	60	X	X
38		5900	3	0·30	LTBRWH	70	10	20				X	15	5	X		800	55	40	X	X
39		5920	3	0·20	BR	70	10	20				X	25	10	X		800	10	30	1	X
40		5940	3	0·25	LTBRWH	50	10	30	10			5	35	10	0·5		500	10	20	X	X
41		5960	3	0·30	LTBR	60	10	20	10			X	X	5	X		400	55	30	X	X
42		5980	3	0·10	LTBR	70	20	10		ROAD		75	25	10	X		11·35%	115	710	X	X
4903	3 3740	6000	3 A-HORZ		LTBR	20			80			20	20	25	X		1050	15	30	X	X

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GEOCHEMICAL SAMPLE DATA SHEET

626159

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No (365 700N) / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu ✓	Pb /	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49044	374020E	53	3	0-30	LTBR	70	10	20				5	25	10	X		1.45%	10	13	11	2
45	40	53	3	0-30	LTBR	70	10	20				5	20	5	X		1.35%	10	10	X	X
46	60	53	3	0-40	LTBR	70	10	20				X	20	10	X		1.75%	15	15	X	10
47	80	53	3	0-35	LTBR	70	10	20				X	15	10	X		1.55%	5	11	X	15
48	100	53	3	0-40	LTBR	70	10	20				5	20	20	X		2.35%	10	23	X	15
49	120	53	3	0-20	LTBR	60	10	20	10			5	25	15	0.5		2.50%	10	10	X	20
50	140	53	3 B-HORIZ	0-20	DKBR	60	10	20	10			15	75	40	0.5		1.70%	15	13	X	10
51	160	53	3 B-HORIZ	0-25	BR	60	10	20	10			5	30	25	0.5		2.00%	15	5	X	15
52	180	53	3	0-30	LTBR	60	10	20	10			X	20	15	X		3.10%	15	2	X	15
53	200	53	3		LTBR	60	10	20	10			X	20	10	X		1.70%	10	6	X	20
54	220	53	3	0-20	BR	60	10	20	10			5	20	15	0.5		3.45%	10	3	11	15
55	240	53	3 B-HORIZ	0-20	BR	60	10	20	10			10	60	25	X		4.10%	25	7	X	10
56	260	53	3 B-HOR	1-00	BR	50	10	20	20			20	70	35	0.5		4.70%	25	3	X	25
49057	374280	53	3	0-20	LTBR	70	10	20				10	35	15	X		3.50%	10	5	X	35
58	300	53	3	0-30	BR	70	10	20				5	25	15	X		5.90%	15	4	11	40
59	320	53	3	0-30	BR	70	10	20		CREEK		20	60	25	0.5		2.05%	240	13	11	70
60	340	53	3 B-HORIZ	0-20	BR	60	10	20	10			55	180	210	1.0		3.45%	830	64	X	55
61	360	53	3	0-30	LTBR	70	10	20				25	75	110	0.5		3.25%	5200	20	X	30
62	380	53	3	0-30	LTBR	70	10	20				30	70	120	0.5		3.20%	4150	22	11	40
63	400	53	3	0-20	ORBR	70	10	20				40	80	105	0.5		5.45%	2550	33	X	65
64	420	53	3	0-30	LTBR	70	10	20		CREEK		30	90	275	0.5		5.25%	3725	24	X	165
65	440	53	3	0-40	ORBR	70	10	20				75	60	165	X		10.0%	4750	21	X	290
66	460	53	3	0-30	ORBR	70	10	20				50	60	125	0.5		9.35%	14775	18	X	440
67	480	53	3	0-30	ORBR	70	10	20				90	30	120	0.5		7.50%	3850	18	X	215
68	500	53	3	0-45	ORBR	70	10	20				55	70	140	0.5		9.60%	6350	19	X	140
69	520	53	3	0-30	ORBR	70	10	20				80	75	105	X		7.55%	2025	13	X	80
70	540	53	3	0-35	ORBR	70	10	20				50	60	115	0.5		9.05%	12750	24	X	105
71	560	53	3	0-25	ORBR	70	10	20				70	120	115	0.5		8.35%	4250	18	X	80
72	580	53	3	0-30	ORBR	70	10	20				15	60	60	X		5.20%	550	12	1	65
49073	374600	53	3	0-30	LTBR	70	10	20				10	60	35	X		2.10%	110	15	X	40

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GEOCHEMICAL SAMPLE DATA SHEET

626160

Project : ML Black E.L 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No (5)	AMG CO-ORDINATES: NORTHING	AMG CO-ORDINATES: EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu ✓	Pb ✓	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49074	365700N	374620E	5313	3	0-75	ORBR	70	10	20				15	20	125	0·5		3·70%	35	1	x	35
75		640	5313	3	1·00	LTBR	70	10	20				75	35	45	x		9·20%	195	1	x	45
76		660	5313	3	0·50	ORBR	70	10	20				20	20	75	0·5		7·55%	200	1	x	65
77		680	5313	3	0·30	ORBR	70	10	20				15	40	85	x		3·80%	105	15	x	50
78		700	5313	3	0·10	ORBR	70	10	20				80	80	70	1·0		6·70%	1375	98	1	85
79		720	5313	3	0·40	ORBR	70	10	20				95	105	100	0·5		5·60%	625	63	x	55
80		740	5313	3	0·40	ORBR	70	10	20				45	30	115	x		4·30%	230	117	x	80
81		760	5313	3	0·30	ORBR	70	10	20				35	25	25	x		4·35%	100	7	x	55
82		780	5313 B-HORZ		0·20	BR	70	10	20				60	100	35	0·5		3·80%	150	11	1	50
83		800	5313	3	0·40	BR	70	10	20				55	35	45	x		5·55%	330	10	x	50
84		820	5313	3	0·20	BR	70	10	20				55	50	50	0·5		6·00%	2825	117	1	70
85		840	5313	3	0·20	BR	70	10	20				75	85	55	x		6·10%	6750	118	1	95
86		860	5313	3	0·20	ORBR	70	10	20				120	65	75	0·5		8·20%	3150	23	x	55
87		880	5313	3	0·20	BR	70	10	20				80	70	75	x		7·60%	7500	26	1	90
49088	374900		5313	3	0·20	OR	70	10	20				65	50	65	x		7·85%	1525	17	x	100
89		920	5313	3	0·30	LTBR	70	10	20				65	55	55	x		6·95%	1500	15	1	115
90		940	5313	3	0·30	ORBR	70	10	20				65	40	65	x		7·20%	1500	17	x	110
91		960	5313 B-HORZ		0·35	ORBR	60	10	20	10	CREEK		35	220	195	0·5		3·65%	3025	22	11	55
92		980	5313	3	0·40	ORBR	70	10	20				20	30	35	x		4·50%	2050	12	x	80
93	375000		5313	3	0·20	ORBR	70	10	20				25	60	45	0·5		4·30%	1415	19	x	30
94		20	5313 B-HORZ		0·20	ORBR	60	10	20	10			40	150	85	1·0		3·30%	300	17	x	75
95		40	5313 B-HORZ		0·25	BR	60	10	20	10			25	120	70	0·5		3·85%	1325	21	1	65
96		60	5313 B-HORZ		0·30	ORBR	60	10	20	10			35	35	125	x		7·10%	1500	21	2	45
97		80	5313	3	0·20	YLBR	70	10	20				15	30	35	x		2·40%	700	10	2	45
98		100	5313	3	0·20	ORBR	60	10	30				10	115	55	x		3·25%	775	22	2	40
99		120	5313	3	0·75	BR	80	10	10				90	595	185	1·5		6·80%	8035	60	2	75
49100	375140E		5313	3	0·45	ORBR	70	10	20				35	535	105	0·5		4·80%	3600	58	1	45
101		160	5313	3	0·15	BR	70	10	20				10	155	60	1·0		3·55%	1050	37	x	40
102		180	5313	3	0·20	BR	60	10	20	10			10	400	150	0·5		4·65%	2300	70	2	55
103		200	5313	3	0·25	ORBR	70	10	20				15	335	75	1·0		4·05%	1150	121	1	60

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GEOCHEMICAL SAMPLE DATA SHEET

626161

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.
Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982
Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 5 365700N; AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49104	375220E	53	3	0-25	GYOR	70	10	20				30	140	105	X		1.70%	130	11	X	120
5	240	53	3	0-45	ORBR	70	10	20				10	75	55	X		4.05%	320	65	X	50
6	260	53	3	0-45	ORBR	70	10	20				10	75	75	11.0		4.25%	185	30	X	45
7	280	53	3	0-50	BRGN	70	10	20				20	130	175	X		4.35%	140	32	X	50
8	300	53	3	0-30	ORBR	80	10	10				5	30	25	X		1.75%	30	20	X	40
9	320	53	3	1-00	YLBR	70	10	20				15	40	55	X		6.15%	80	110	X	60
10	340	53	3	0-50	ORBR	70	10	20				10	20	45	X		2.50%	60	158	X	30
11	360	53	3		ORBR	70	10	20				10	25	40	X		3.35%	60	69	X	80
12	380	53	3	B-HORZ 0-15	BR	60	10	20	10			30	105	55	11.5		6.70%	407.5	155	X	50
13	400	53	3	0-30	DKBR	60	10	20	10			55	210	115	0.5		3.35%	550	54	11.0	45
14	420	53	3	0-40	ORBR	70	10	20				10	95	45	0.5		2.70%	860	43	11	30
15	440	53	3	0-35	LTBR	70	10	20				10	75	50	X		1.95%	540	25	X	30
16	460	53	3	0-50	DKBR	70	10	20				5	11.5	145	X		30.0%	1.50%	320	X	50
17	480	53	3	0-40	LTBR	70	10	20				5	15	35	X		8300	375	3	X	X
49118	375500	53	3	0-50	ORBR	70	10	20				X	15	35	X		1.35%	65	13	X	X
119	520	53	3	0-30	LTBR	70	10	20				5	25	25	X		2350	150	115	X	X
120	540	53	3	0-30	LTBR	60	10	20	10			5	20	25	X		4550	40	4	X	X
121	560	53	3	0-30	LTBR	70	10	20				X	10	20	X		4650	25	4	11	10
122	580	53	3	0-25	LTBR	70	10	20				5	10	30	X		2250	20	2	11	X
123	600	53	3	0-30	WHBR	70	10	20				X	5	20	X		4150	25	3	11	X
124	620	53	3	0-40	ORBR	70	10	20				X	130	35	X		2.40%	45	20	X	X
125	640	53	3	B-HORZ 0-15	BR	60	10	20	10			30	50	55	X		7600	85	8	X	X
126	660	53	3	0-25	WHBR	60	10	20	10			5	30	25	X		2900	25	6	11	X
127	680	53	3	0-20	LTBR	60	10	20	10			5	35	30	X		3100	40	1	X	X
128	700	53	3	0-30	BRWH	70	10	20				X	15	20	X		2550	20	2	11	5
129	720	53	3	0-20	BRWH	70	10	20				5	15	25	X		1925	35	X	X	X
130	740	53	3	0-40	LTBR	70	10	20				10	45	35	X		4700	25	12	X	X
131	760	53	3	0-20	LTBR	70	10	20				5	75	30	X		4300	35	3	X	X
132	780	53	3	0-40	BRWH	70	10	20		RIVER		5	10	25	X		1450	20	2	X	X
		53	3																		

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626162

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mattinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 365 DON	AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu ✓	Pb ✓	Zn	Ag	Au	Fe %	Mn	As	Sn	W
49133		373500E	53	3	1·00	GNGY	70	10	20				60	45	185		x	11·0%	255	3	x	315
34		520	53	3	0·45	BR	80	10	10				10	10	65		x	3·00%	45	x	x	60
35		540	53	3	0·40	LTBR	70	10	20		TRACK		15	10	100		x	4·90%	70	1	1	45
36		560	53	3	0·85	LTGN	80	10	10				10	15	45		x	9·90%	110	5	x	30
37		580	53	3	0·40	BRGY	70	10	20				50	15	120	0·5		3·50%	40	x	x	75
38		600	53	3	0·70	BR	70	10	20				10	25	55	x		9·00%	115	3	x	40
39		620	53	3	0·40	LTBR	70	10	20				10	60	35	x		1·90%	145	2	x	30
40		640	53	3	0·75	LTBR	70	10	20		CREEK		20	25	70	x		1·50%	155	4	x	55
41		660	53	B-HORZ	0·10	BR	60	10	20	10			55	40	115	x		26·5%	3825	24	x	215
42		680	53	3	0·45	LTBR	70	10	20				20	50	65	x		4·35%	70	110	x	85
43		700	53	3	1·30	LTBR	70	10	20				165	240	105	0·5		6·75%	155	210	x	90
44		720	53	B-HORZ	0·15	LTBR	50	10	20	20			10	70	135	0·5		1·95%	150	6	x	40
45		740	53	3	0·60	ORBR	70	10	20				30	20	85	x		4·75%	65	2	x	30
49146	373760		53	3	1·35	LTBR	90	10					90	110	55	x		3·65%	125	113	x	45
47		780	53	3	0·60	BR	70	10	20				210	30	150	x		7·95%	105	23	x	60
48		800	53	3	0·55	LTBR	70	10	20				20	35	55	x		1·55%	170	8	x	85
49		820	53	3	1·00	LTBR	70	10	20				55	10	145	x		4·10%	60	x	x	40
50		840	53	3	0·90	LTGNBR	60	20	20				75	85	45	x		3·50%	95	9	x	30
51		860	53	3	0·80	LTBR	70	10	20				20	20	45	0·5		1·05%	20	x	x	55
52		880	53	3	1·30	BR	70	10	20		CREEK		50	45	130	0·5		1·80%	85	4	x	90
53		900	53	3	0·30	BR	60	10	20	10			45	50	100	x		7·65%	215	15	x	60
54		920	53	B-HORZ	0·25	BR	70	10	20				60	60	170	x		7·10%	225	21	x	60
55		940	53	3	0·40	LTBR	70	10	20				20	25	30	1·0		0·70%	25	6	x	30
56		960	53	3	0·15	LTBR	70	10	20				20	20	45	0·5		1·05%	45	4	1	25
57		980	53	3	0·30	BRGY	70	10	20				5	35	40	x		1·90%	45	6	x	35
58	374000		53	3	0·65	ORBR	70	10	20				25	75	100	x		5·95%	135	11	x	45
59		20	53	B-HORZ	0·30	DKBR	60	10	20	10	CREEK		65	140	125	x		11·0%	2950	47	x	65
60		40	53	3	0·50	LTBRORG	70	10	20				70	55	105	x		6·60%	135	33	x	115
61		60	53	3	0·40	LTBR	70	10	20				175	70	350	x		10·35%	195	27	x	120
49162	374080		53	3	0·45	ORBR	70	10	20				115	50	130	x		6·50%	110	18	x	50

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626163

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mathinsen Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Amdaks
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49163	3650N / 3740E	5330	3300	0-40	LTBR	70	10	20		CREEK		50	30	95	X		4·45%	95	10	X	50
64	120	5330	3300	0-50	BRGN	60	20	20				95	115	325	X		5·95%	285	17	X	65
65	140	5330	3300	1-00	LTBR	60	10	20	10			85	75	195	0·5		3·05%	220	10	X	135
66	160	5330	3300	0-30	DKORBR	60	10	30		CREEK		80	155	95	1·0		5·25%	135	50	X	75
67	180	5330	3300	0-40	LTBR	70	10	20				20	120	65			3·10%	95	10	X	75
68	200	5330	3300	0-40	ORBR	70	10	20				225	100	70			5·25%	125	170	X	75
69	220	5330	3300	0-50	BR	70	5	20	5			85	135	80	0·5		5·20%	135	62	X	170
70	240	5330	3300	0-40	ORBR	70	10	20				35	65	40			4·75%	160	21	X	90
71	260	5330	3300	0-40	BR	60	10	20	10			25	55	45	0·5		4·45%	40	23	X	75
72	280	5330	3300	0-40	LTBR	70	10	20				25	60	120	0·5		3·55%	125	10	X	110
73	300	5330	3300	1-00	BRGY	70	10	20				50	130	55	0·5		3·45%	65	25	X	85
74	320	5330	B-HORZ	0-30	DKBR	60	10	30	10			15	75	25	X		1·05%	30	17	X	110
49175	3740	5330	3400	0-60	ORBR	70	10	20				90	185	45	X		8·30%	135	21	X	100
76	360	5330	3300	0-35	DKBR	70	10	20				10	70	25	0·5		2·25%	45	5	X	50
77	380	5330	3300	0-35	ORBR	70	10	20				30	115	95	X		4·95%	110	27	X	350
78	400	5330	3300	0-30	LTBR	70	10	20				20	85	115	X		5·55%	310	19	X	145
79	420	5330	3300	0-30	ORBR	70	10	20				10	135	60	X		4·80%	1375	17	X	115
80	440	5330	B-HORZ	0-20	LTBR	60	10	20	10			10	75	95	X		3·85%	3050	8	X	150
81	460	5330	3300	0-20	LTBR	70	10	20				45	75	75	X		3·55%	260	10	X	165
82	480	5330	3300	0-30	LTBR	70	10	20				15	65	60	X		2·00%	65	2	X	120
83	500	5330	3300	0-40	LTBR	70	10	20				X	130	315	X		3·05%	170	5	X	115
84	520	5330	3300	0-60	LTBR	70	10	20				100	35	265	X		5·75%	475	2	X	135
85	540	5330	3300	0-40	LTBR	70	10	20				35	35	125	X		3·05%	380	11	X	110
86	560	5330	B-HORZ	0-20	LTBR	60	10	20	10			15	30	95	X		3·10%	2825	12	X	140
87	580	5330	3300	0-20	LTBR	70	10	20				5	30	65	X		1·90%	1025	11	X	100
88	600	5330	3300	0-50	LTBR	70	10	20				5	15	30	X		1·35%	55	X	X	70
89	620	5330	3300	0-50	ORBR	70	10	20				10	375	225	X		6·50%	1100	19	X	65
90	640	5330	3300	0-60	LTGYBR	70	10	20				X	10	35	X		1·15%	30	11	X	90
91	660	5330	3300	0-20	LTBR	60	10	20	10			X	15	20	X		40·50	10	X	11	55
91192	3740	5330	3300	0-60	LTBR	70	10	20				5	5	45	X		1·40%	20	X	X	75

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626164

Project : .....
Locality : .....
Grid Name : .....
Nominal Grid Azimuth : .....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : .....
Date : .....

Size Fraction Analysed : -80#
Analysed By : Amdaks
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 365300N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49193	37+ 700E	53	3	0-15	LTBR	60	10	20	10			X	115	30	X		1.85%	25	X	X	50
94	720	53 B-HORIZ		0-15	BR	60	10	20	10			X	10	15	X		3500	15	X	X	45
95	740	53	3	0-30	LTBR	70	10	20				X	115	15	X		6150	10	X	X	60
96	760	53	3	0-15	BR	70	10	20				X	110	15	0.5		7200	10	5	X	75
97	780	53	3	1-20	LTBR	70	10	20				10	15	30	X		9000	25	4	X	45
98	800	53	3	0-15	LTBR	70	10	20				5	130	25	0.5		6250	45	7	1	30
99	820	53 B-HORIZ		0-10	BR	60	10	20	10			20	30	35	1.0		2850	50	4	1	10
200	840	53 B-HORIZ		0-15	BR	60	10	20	10			30	100	90	1.0		3050	105	1	1	20
1	840	53	3	0-10	DKBR	60	10	20	10			35	105	75	X		6600	2450	7	115	15
2	860	53 B-HORIZ		0-10	BR	60	10	20	10			5	105	20	X		4250	25	5	2	40
3	880	53	3	0-20	LTBR	70	10	20				10	45	40	0.5		2.10%	245	9	1	60
4	900	53	3	0-10	BR	60	10	20	10			15	50	35	X		2.15%	150	14	X	50
5	920	53 B-HORIZ		0-10	BR	60	10	20	10			35	45	55	X		4.00%	2650	15	X	45
6	940	53 B-HORIZ		0-25	BR	60	10	20	10			15	25	25	X		1.50%	200	12	1	30
7	960	53	3	0-75	ORBR	70	10	20				40	15	60	X		6.65%	135	32	2	50
8	980	53	3	0-20	BR	60	10	20	10			80	5	45	X		5.10%	195	12	X	45
49209	375000	53	3	0-10	BR	60	10	20	10	CREEK		10	110	60	X		3.25%	305	29	1	30
10	020	53 B-HORIZ		0-10	BR	60	10	20	10			15	10	15	X		7200	70	7	X	15
11	040	53 A+B HORIZ		0-10	ORBR	40	15	15	50			20	45	870	X		14.5%	13.5%	18	X	5
12	060	53 B-HORIZ		0-10	LTBR	60	10	20	10			10	25	20	X		3.50%	660	31	X	10
13	080	53	3	0-40	LTBR	70	10	20				X	5	10	X		2.10%	170	33	X	10
14	100	53	3	0-30	LTGY	70	10	20				5	X	5	X		6400	30	37	X	15
15	120	53	3	0-20	ORBR	70	10	20				50	25	70	X		3.10%	560	100	X	20
16	140	53	3	0-75	GNBR	70	10	20				55	130	240	X		2.70%	1530	84	X	30
17	160	53	3	0-40	LTBR	70	10	20				25	100	65	X		3.40%	2050	42	1	40
18	180	53	3	0-20	LTBR	70	10	20				10	70	65	X		4.10%	400	52	1	30
19	200	53 B-HORIZ		0-20	BR	60	10	20	10			10	5	50	X		1.50%	140	14	1	30
20	220	53	3	0-20	BR	70	10	20				15	105	55	X		3.10%	3450	32	X	65
21	240	53	3	0-30	BR	70	10	20				10	120	125	X		2.35%	2900	116	X	30
22	260	53	3	0-30	ORBR	70	10	20				15	50	45	X		2.70%	600	14	X	30

EZ Co of N Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626165

Project : Mt Black E.L 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Amdel
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 3653CON / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49223	375280E	53	B-HOR 2	0-25	BR	60	10	20	10			20	45	50	x		2.45%	365	16	5	35
24	300	53	3	6-20	LTBR	70	10	20				10	15	25	x		1.95%	100	13	x	30
25	320	53	3	0-40	ORBR	70	10	20				10	20	55	x		2.20%	50	10	x	35
26	340	53	3	0-30	LTBR	70	10	20				5	10	25	x		1.85%	30	11	x	15
27	360	53	3	0-60	DKBR	70	10	20				50	30	105	x		5.70%	210	11	x	15
28	380	53	3	0-30	LTBR	70	10	20				10	20	50	x		2.30%	110	11	x	x
29	400	53	3	0-50	LTBR	70	10	20				60	10	110	x		7.00%	210		x	55
30	420	53	3	0-25	BR	70	10	20				10	30	45	x		2.65%	50	7	x	3
31	440	53	3	0-30	LTBR	70	10	20				5	10	20	x		1.00%	30	7	x	x
32	460	53	3	0-30	LTORBR	70	10	20				x	30	20	x		1.65%	50	5	1	x
33	480	53	B-HOR 2	0-20	BR	60	10	20	10			10	215	60	x		1.80%	130	15	x	5
34	500	53	3	0-60	BR	70	10	20				10	935	150	0.5		3.00%	3350	31	x	x
49235	375520	53	3	0-50	LTBR	70	10	20				x	60	90	x		3.05%	65	8	2	x
36	540	53	B-HOR 2	0-15	LTBR	60	10	20	10			5	10	20	x		3.55%	25	7	x	x
37	560	53	B-HOR 2	0-20	BR	60	10	20	10			x	55	40	x		2.10%	70	11	1	x
38	580	53	3	0-20	BR	60	10	20	10			10	415	95	x		2.30%	1300	18	1	x
39	600	53	3	0-10	BR	60	10	20	10			10	245	105	0.5		3.10%	840	11	x	x
40	620	53	3	0-40	ORBR	100						5	670	145	0.5		5.85%	300	11	x	5
41	640	53	B-HOR 2	0-30	LTBR	60	10	20	10			x	15	20	x		2.50	35	1	x	x
42	660	53	3	0-20	LTBR	70	10	20		EXPOSURE		x	40	20	x		5.00	70	2	1	x
43	680	53	3	0-30	LTBR	70	10	20				x	60	20	x		7.00	130	2	x	x
44	700	53	B-HOR 2	0-10	LTBR	60	10	20	10			x	35	15	x		3.60	80	1	1	x
45	720	53	3	0-30	LTBR	70	10	20				x	35	20	x		3.80	85	1	1	x
46	740	53	3	0-30	LTBR	70	10	20				x	20	10	x		3.30	70	x	1	x
47	760	53	3		LTBR	60	10	20	10			x	15	15	x		2.90	60	1	x	x
48	780	53	3	0-45	GYBR	70	10	20				x	5	10	x		3.00	65	1	1	x
49	800	53	3	0-30	GY	70	10	20				x	10	10	x		2.80	65	1	1	x
50	820	53	B-HOR 2	0-15	BR	60	10	10	20			x	15	10	x		2.60	60	1	x	x
51	840	53	3	0-15	BR	70	10	20				x	20	20	x		3.00	90	1	1	x
49252	375860	53	3	0-15	BR	60	10	30	10			x	20	15	x		3.50	70	2	1	x

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626166

Project : Mt. Black E.L. 1/82
Locality : Metone
Grid Name : Metone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Amlabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 365 1 CON / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm. unless specified): Cu /	Pb /	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49253	373460	5300	3	0·60	LTBR	70	10	20				55	5	85	X		9·55%	55	16	X	125
54	4800	5300	3	0·75	BR	70	10	20				20	X	40	X		2·85%	20	12	X	30
55	5000	5300	3	0·40	LTBR	70	10	20				20	5	70	0·5		4·80%	40	14	X	70
56	5200	5300	3	0·55	YLBR	70	10	20				140	15	95	X		12·00%	130	14	X	80
57	5400	5300	3	1·20	BR	70	10	20				420	85	60	X		8·65%	100	48	X	30
58	5600	5300	3	0·25	BR	70	10	20				65	140	20	X		1·35%	15	5	X	30
59	5800	5300	3	0·30	LTBR	70	10	20				130	10	60	X		8·35%	50	12	X	50
60	6000	5300	3	0·20	LTBR	60	10	20	10			60	110	45	X		2·00%	30	11	X	75
61	6200	5300	3	0·20	ORBR	70	10	20				15	40	30	X		3·90%	25	13	X	30
62	6400	5300	3	0·75	ORBR	70	10	20				445	90	80	X		12·00%	265	220	X	30
63	6600	5300	3	0·60	LTORBR	70	10	20				25	10	55	X		8·85%	160	10	X	55
64	6800	5300	3	0·30	LTGYBR	60	10	20	10			15	20	40	X		4·90%	60	12	X	40
49265	373700	5300	3	0·60	LTBR	70	10	20				150	55	80	X		8·85%	90	9	X	125
66	7200	5300	3	0·65	GNBR	70	10	20				40	30	50	X		2·50%	55	4	X	65
67	7400	5300	3	0·70	LTBR	70	10	20		CREEK		50	25	75	0·5		1·30%	30	6	X	70
68	7600	5300	3	0·90	LTBR	70	10	20				65	35	155	X		1·15%	125	23	X	45
69	7800	5300	3	0·50	LT	70	10	20				130	110	140	X		9·20%	100	5	X	30
70	8000	5300	3	0·45	LTBRGY	70	10	20				20	115	115	X		3600	10	2	X	55
71	8200	5300	3	0·20	BR	70	10	20				70	25	50	X		6·25%	30	9	X	45
72	8400	5300	3	0·45	LTBR	60	10	30				40	55	30	0·5		1·05%	20	9	X	40
73	8600	5300	3	0·30	BR	70	10	20		CREEK		40	120	70	X		3·45%	130	9	X	65
74	8800	5300	3	0·35	YLBR	60	10	30				80	195	90	X		3·95%	100	6	1	60
75	9000	5300	3	0·50	BR	70	10	20				75	205	115	0·5		5·30%	140	15	X	60
76	9200	5300	3	0·60	GNBR	70	10	20				140	60	115	X		4·80%	100	6	X	50
77	9400	5300	3	0·30	LTBR	70	10	20				20	85	60	X		3·80%	25	4	X	45
78	9600	5300	3	0·50	ORBR	70	10	20				120	95	210	X		11·00%	35	8	X	70
79	9800	5300	3	0·60	ORBR	70	10	20				55	30	95	X		9·20%	100	13	X	100
80	374000	5300	3	1·10	YLOR	60	10	30				40	15	199	X		10·00%	200	7	X	120
81	0200	5300	3	0·30	BR	70	10	20				140	65	165	X		5·05%	90	18	X	40
49282	374040	5300	3	0·35	BR	70	10	20				60	85	230	X		6·30%	320	20	X	20

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626167

Project : ML Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49283	3650 N / 3740 E	53	3	0·30	BR	70	10	20				100	130	295	X		5·50%	1145	115	X	35
84	080	53	3	0 30	ORBR	80	10	10				15	10	30	X		2·90%	300	15	X	45
85	100	53	3	0·45	BR	70	10	20				85	160	20	X		1·55%	X	15	X	20
86	120	53	3	0·45	LTBR	60	10	30				140	65	130	1·0		2·65%	710	23	X	20
87	140	53	3	0 40	GYBR	70	10	20		CREEK		40	65	115	X		3·15%	2600	25	X	135
88	160	53	3	0·50	ORBR	60	10	30				220	145	75	X		4·55%	440	23	X	15
89	180	53	3	0 40	BR	70	10	20				10	45	30	X		1·25%	280	13	X	170
90	200	53	3	0·50	ORBR	60	10	30				45	75	265	X		5·55%	1100	30	X	210
91	220	53	3	0·30	GYBR	70	10	20				20	55	205	X		6·00%	3100	32	X	245
92	240	53	3	0·25	BRGN	60	10	20	10			15	75	130	X		2·95%	6600	60	X	660
93	260	53	3	0·30	LTBR	70	10	20				25	45	70	X		1·35%	1900	27	X	335
94	280	53	3	0·25	BRGY	60	10	30				15	70	95	X		3·45%	2900	37	X	180
95	300	53	3	0·45	BR	70	10	20				25	80	105	X		4·35%	4200	45	X	240
96	320	53	3- HORZ	0·25	BR	60	10	20	10			55	465	140	1·0		8·25%	11·30%	55	X	665
97	340	53	3	0 20	BR	60	10	20	10			50	65	80	X		4·10%	6750	113	X	550
98	360	53	3	0 30	BRGN	60	10	20	10			140	525	290	1·5		4·15%	11500	154	X	700
99	380	53	3	0·20	BR	60	10	20	10	CREEK		40	265	190	0·5		6·25%	7900	120	X	760
49300	3744 00	53	3	0 40	GYBR	60	10	30				5	55	35	X		3050	515	17	X	350
1	420	53	3	0 30	GYBR	80	10	10				65	15	25	0·5		2·05%	300	110	X	40
2	440	53	3	0·50	GYBROR	70	10	20				15	40	60	0·5		6650	325	115	X	520
3	460	53	3	0 30	BR	80	10	10		CREEK		20	60	160	X		2·50%	2000	17	2	2550
4	480	53	B-HORZ	0·15	GYBR	70	20	10				10	165	50	0·5		8850	3500	23	X	280
5	500	53	3	0·55	LTGYBR	70	10	20				X	170	10	X		4450	300	15	X	75
6	520	53	B-HORZ	0 15	LTBR	60	10	20	10			X	25	10	X		3700	200	13	X	50
7	540	53	3	0·35	GY	70	10	10	10			X	15	10	X		3000	100	11	X	50
8	560	53	3	0 50	LTBR	80	10	10				X	10	20	X		6050	150	11	X	55
9	580	53	3	0 60	GY	70	10	20				X	15	30	X		1 00%	150	11	X	70
10	600	53	3	0·45	BR	70	10	20				15	20	20	0·5		1·85%	200	11	X	55
11	620	53	B-HORZ	0 15	LTBR	60	10	20	10			X	15	20	0·5		2·65%	400	16	X	90
49312	3746 40	53	B-HORZ	0·10	BRYL	60	10	20	10			X	35	15	X		1·55%	400	13	X	65

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626168

Project : Mt Black E.L 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (p.p.m. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49313	374600	5333	B-HORIZ	0·10	BR	50	20	30	10			X	20	20	0·5		1·40%	245	1	X	55
14	680	533	3	0·90	YLBR	70	10	20				X	35	35	X		2·25%	95	1	X	75
15	700	533	3	0·50	YLBR	70	10	20				X	35	35	X		3·25%	75	3	X	50
16	720	533	3	0·18	LTBR	70	10	20				10	35	25	X		11·10%	610	9	X	120
17	740	533	3	0·45	GYBROR	70	10	20				5	35	30	X		2·50%	320	7	X	135
18	760	533	3	0·45	BRGY	70	10	20				X	45	20	X		1·00%	110	5	X	55
19	780	533	3	0·50	GYBR	70	10	20				X	20	15	X		3300	X	3	X	30
20	800	533	3	0·50	GYYL	70	10	20				X	40	30	X		5650	5	4	X	30
21	820	533	A+BHORIZ	0·15	DKBR	50	10	20	20			10	65	50	X		1·00%	50	2	115	165
22	840	533	B-HORIZ	0·10	DKBR	50	20	10	20			55	145	70	0·5		6200	140	2	X	210
23	860	533	B-HORIZ	0·10	BRGY	70	10	20				30	140	65	0·5		3·40%	230	8	X	165
24	880	533	A+BHORIZ	0·10	DKBR	60	10	10	20			40	160	55	X		2·25%	150	4	1	130
25	900	533	B-HORIZ	0·10	BR	60	10	20	10			35	60	45	X		2·60%	560	2	X	105
26	920	533	B-HORIZ	0·40	BR	70	10	20				50	170	80	X		3·60%	1650	5	X	130
49327	374940	533	B-HORIZ	0·35	BRGY	50	30	20		ROCKLIKE		20	215	45	0·5		2·15%	3150	5	X	95
28	960	533	B-HORIZ	0·10	BR	50	30	20		CREEK		20	160	45	1·0		2·25%	1150	5	X	55
29	980	533	B-HORIZ	0·15	YLBR	60	10	20	10			25	140	45	X		1·50%	210	5	X	40
30	375000	533	3	0·60	BR	70	10	20				15	60	45	X		2·55%	150	15	X	35
31	20	533	3	0·60	BR	70	10	20				35	100	155	0·5		2·65%	240	71	X	25
32	40	533	3	0·60	GNBR	70	10	20				20	200	170	X		2·30%	395	54	X	45
33	60	533	3	0·15	GYBR	70	10	20				20	165	145	X		1·15%	520	21	X	40
34	80	533	B-HORIZ	0·15	LTBR	60	10	20	10			10	85	80	0·5		1·20%	130	22	X	30
35	100	533	B-HORIZ	0·15	LTBR	60	10	20	10			10	45	30	X		7450	70	9	2	30
36	120	533	B-HORIZ	0·10	BR	60	10	20	10			10	115	95	0·5		1·25%	335	12	1	50
37	140	533	B-HORIZ	0·10	BR	60	10	20	10			10	190	140	0·5		2·05%	600	32	X	25
38	160	533	B-HORIZ	0·10	BR	40	10	30	20	CREEK		50	370	435	X		5·55%	1·95%	100	X	55
39	180	533	B-HORIZ	0·20	BR	60	10	10	20			15	95	155	X		2·05%	230	11	1	60
40	200	533	B-HORIZ	0·15	DKBR	60	10	20	10			10	45	25	0·5		4050	80	2	X	15
41	220	533	B-HORIZ	1·40	BR	60	10	30				10	115	80	X		1·75%	760	15	X	25
49342	375240	533	B-HORIZ	0·20	GY	60	10	30				20	155	270	X		2·75%	1270	110	X	20

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626169

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
	36100N																				
49343	375260E	5336-HORZ		0-15	GYBR	60	10	30				40	125	200	x		3·20%	1650		1	125
44	280	5337-HORZ		0-10	LTBR	60	10	20	10			30	90	70	x		2·70%	910	9	1	55
45	300	5338-HORZ		0-15	BR	60	10	30				30	100	130	x		3·65%	3250	10	1	95
46	320	5338-HORZ		0-10	DKBR	70	10	10	10			20	105	60	x		1·60%	2235	5	1	45
47	340	533	3	0-10	BR	40	30	30		RIVER		15	205	145	x		1·65%	2450	8	2	25
48	360	533	3	0-20	GY	70	10	20		RIVER		15	115	60	x		1·75%	1400	5	1	75
49	380	533	3	0-30	ORBR	70	10	20				10	125	130	x		2·05%	1600	11	2	50
50	400	533	3	0-20	LTBRGY	70	10	20				5	60	55	x		1·00%	585	3	x	10
51	420	533B-HORZ		0-15	GY	70	10	20				5	55	40	x		1·30%	1235	16	1	15
52	440	532-HORZ		0-15	LTGY	70	10	20				x	20	20	x		1·00%	55	11	x	15
53	460	533	3	0-10	GY	70	10	20				10	65	45	x		1·35%	1105	12	1	10
54	480	533B-HORZ		0-10	ORBR	70	10	10	10			10	45	35	x		1·70%	1400	12	x	5
55	500	533B-HORZ		0-15	BR	70	10	20				15	85	40	x		4500	1105	11	1	15
56	520	533	3	0-30	ORBR	60	10	20	10			5	25	30	x		1·95%	1110	11	x	10
57	540	533B-HORZ		0-10	BR	70	10	10	10			5	40	25	0·5		6650	770	12	1	10
58	560	533B-HORZ		0-15	BR	60	10	20	10			10	55	30	0·5		4700	740	11	1	5
59	580	533B-HORZ		0-15	DKGY	60	10	10	20			10	145	20	x		8400	330	2	1	10
60	600	533B-HORZ		0-10	DKGY	60	20	10	10			5	60	25	x		4400	740	1	x	10
61	620	533	3	0-50	LTGY	70	10	20				x	125	40	x		1·30%	325	8	x	x
62	640	533	3	0-45	LTBR	70	10	20				x	55	20	x		1·00%	325	14	x	x
63	660	533	3	0-30	LTGY	70	10	20				x	145	15	0·5		2450	115	3	x	x
64	680	533	3	0-15	LTGY	70	10	20				x	45	15	0·5		2200	325	3	x	x
65	700	533B-HORZ		0-15	LTGY	60	10	20	10			x	70	15	1·0		2250	220	4	x	x
66	720	533B-HORZ		0-15	LTGY	60	10	20	10			x	25	10	x		1750	220	3	1	5
67	740	533	3	0-15	LTGY	70	10	20				x	20	10	x		1800	115	3	1	x
68	760	533	3	0-60	LTGY	70	10	20				x	15	40	0·5		1·20%	770	5	x	25
69	780	533	3	0-60	LTGY	70	10	20				x	20	20	x		6350	335	10	x	10
70	800	533	3	0-10	LTGY	70	10	20		ROAD		x	85	55	0·5		3650	1155	5	x	5
71	820	533	3	0-20	BR	70	10	20				x	15	10	x		1450	330	2	x	x
49372	375840	533	3	0-20	LTBR	70	10	20				x	x	25	x		3100	125	12	x	x

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626170

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : McKinsen Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cl
49373	365100N / 375800E	53	3	0-20	LTBR	70	10	20				X	10	15	X		2.75	50	3	2	X
74	880	53	3	0-25	BR	70	10	20				X	X	30	X		3.10	40	2	X	X
		53	3																	

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626171

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 36490CN / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu ✓	Pb ✓	Zn	Ag	Au	Fe %	Mn	As	Sn	U
49375	37440CE	53 B-HORIZ		0·10	BR	60	10	20	10			15	45	140		X	2·40%	1450	5	X	
76	460	53	3	0·15	BR	60	10	20	10			10	65	120		X	2·40%	3450	4	X	31.5
77	480	53	3	0·30	LTBR	70	10	20				110	50	100	0·5		3·05%	410	5	1	4.5
78	500	53	3	0·45	YLBR	70	10	20				40	30	60		X	3·10%	480	3	X	4.0
79	520	53	3	0·20	LTBR	70	10	20				25	20	60		X	5·00%	710	3	X	2.5
80	540	53 B-HORIZ	2	0·15	LTBR	50	10	30	10			20	50	35	0·5		3·55%	1000	4	X	9.5
81	560	53	3	0·20	LTBR	70	10	20				10	25	35	0·5		2·80%	1255	3	X	6.0
82	580	53	3	0·45	GNBR	60	10	20	10			5	60	75		X	5·75%	1210	4	X	10.5
83	600	53	3	0·30	BR	60	10	20	10			10	745	160		X	8·00%	1·00%	21	X	14.5
84	620	53	3	0·25	BR	60	10	20	10			15	350	160	0·5		6·00%	6500	10	X	16.5
85	640	53	3	0·20	LTBR	70	10	20				10	155	70	0·5		1·10%	5100	12	X	6.0
86	660	53 B-HORIZ	2	0·10	LTBRGY	60	10	20	10			10	110	50		X	1·15%	1150	6	X	12.5
87	680	53	3	0·30	LTBR	60	10	20	10			10	175	130	0·5		3·10%	3950	9	X	14.0
88	700	53	3	0·25	LTBR	70	20	10				15	170	130	0·5		2·05%	620	9	1	15.5
89	720	53	3	0·30	LTBR	70	10	20				5	175	55		X	1·00%	1380	5	X	3.5
90	740	53	3	0·45	ORBR	70	10	20				X	80	135		X	4·70%	1010	8	X	0.5
91	760	53	3	0·30	LTBR	70	10	20				20	95	55		X	1·20%	45	5	X	1.0
92	780	53	3	0·25	BR	70	20	10				20	365	110	0·5		2·50%	8300	13	X	24.5
93	800	53	3	1·00	LTBR	70	10	20				5	110	110	0·5		1·45%	280	8	X	34.5
94	820	53 B-HORIZ	2	0·10	WHBR	60	10	20	10			X	30	35	0·5		2350	45	3	X	10.0
95	840	53 B-HORIZ	2	0·20	BR	50	20	20	10	CREEK		10	215	210	0·5		1·95%	3900	10	X	32.5
96	860	53	3	0·30	LTBR	60	10	20	10			10	65	30		X	1·40%	250	10	1	11.5
97	880	53 B-HORIZ	2	0·20	BR	60	10	20	10			20	80	50		X	4·10%	430	12	2	10.0
98	900	53 B-HORIZ	2	0·15	BR	60	10	10	20			5	410	95	0·5		3·55%	4550	13	X	8.5
99	920	53	3	0·30	LTBR	70	10	20		CREEK		10	80	1210		X	2·45%	1490	27	X	4.0
49400	37490	53	3	0·15	BR	60	10	30				50	415	680	0·5		4·95%	5150	37	X	5.0
1	960	53	3	0·30	LTBR	70	10	20				10	75	40		X	1·55%	40	28	X	2.5
2	980	53	3	0·30	BR	70	10	20				10	80	40		X	2·00%	70	35	X	1.5
3	375000	53	3	0·60	LTBR	70	10	20				15	150	370	0·5		2·65%	1400	30	X	2.0
494 4	375020	53	3	0·45	DKORBR	70	10	20		CREEK		65	560	970	0·5		5·00%	5250	41	X	4.5

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626172

Project : Mt Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cl
49405	375070E	5334+B HORZ		0·10	DKBR	20	40	20	40			60	725	170	0·5		1·30%	360	133	x	3
6	60	533	3	0·30	ORBR	70	10	20				110	405	760	0·5		5·70%	3200	54	x	170
7	80	533	3	0·20	LTBR	60	10	20	10			65	525	260	x		5·10%	6750	47	x	55
8	100	533	3	0·30	ORBR	70	10	20				10	90	100	x		3·45%	160	40	x	145
9	120	533	3	0·60	ORBR	70	10	20				5	55	60	x		3·75%	550	29	x	3
10	140	533	3	1·05	DKGY	40	30	30				10	10	60	x		2·00%	60	15	x	30
11	160	533	3	0·20	DKBR	60	10	20	10			5	80	40	x		1·50%	130	20	x	45
12	180	533	3	0·15	LTBR	60	10	30		CREEK		30	105	120	x		3·90%	11450	20	x	55
13	200	533	3	0·40	LTORBR	70	10	20				20	70	60	x		2·70%	175	13	x	25
14	220	533 B-HORZ		0·15	DKBR	60	10	10	20			20	85	50	x		1·15%	150	13	x	20
15	240	533	3	0·20	LTBR	70	10	20				15	70	100	x		3·45%	210	21	x	55
16	260	533	3	0·45	LTBR	70	10	20				10	200	130	x		3·15%	165	27	11	40
17	280	533	3	0·30	LTGY	70	10	20				10	40	50	x		2·75%	220	13	x	20
18	300	533	3	0·30	ORBR	70	10	20				5	30	45	x		1·60%	60	21	11	30
19	320	533	3	0·20	LTBR	70	10	20				x	30	30	x		1·00%	40	5	x	x
49420	375340	533	3	0·15	LTBR	70	10	20				x	20	20	x		3800	30	4	x	x
21	360	533	3	0·40	LTBR	70	10	20				x	10	55	x		6150	40	3	x	x
22	380	533	3	0·20	YLBR	70	10	20				x	105	45	x		1·00%	60	10	x	x
23	400	533 B-HORZ		0·15	DKBR	60	10	20	10			x	70	40	x		1·00%	90	6	x	x
24	420	533 B-HORZ		0·10	BR	60	10	10	20			x	255	60	0·5		1·00%	60	11		x
25	440	533	3	0·30	LTBR	70	10	20				5	345	90	x		2·40%	350	15	x	x
26	460	533	3	0·40	GYBR	80	10	10				x	205	60	x		1·40%	60	11	x	x
27	480	533 B-HORZ		0·15	BR	50	20	20	10	CREEK		x	235	50	x		1·75%	60	15	x	x
28	500	533	3	0·35	BRGYGN	80	10	5	5			5	285	100	x		2·70%	90	21	x	x
29	520	533 B-HORZ		0·20	BR	60	10	20	10			5	155	40	x		1·00%	60	18	x	x
30	540	533	3	0·10	WHBR	60	20	10	10	CREEK		x	330	25	x		3350	35	5	x	x
31	560	533	3	0·30	ORBR	70	10	20				x	60	30	x		1·55%	70	5	11	x
32	580	533 B-HORZ		0·40	BR	60	10	10	20			x	70	30	x		5100	90	7	x	x
33	600	533	3	0·40	LTBR	70	10	20				x	35	20	0·5		7300	100	5	x	x
49434	375620	533	3	0·30	LTBR	80	10	10				x	35	15	x		2700	35	4	x	x

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626173

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49435	3756 40E	53	3	0·20	LTBR	70	10	20				x	115	20	x		2·80%	40	4	x	x
36	660	53	3	0·15	LTBR	60	20	10	10			x	60	20	x		2·55%	40	4	1	x
37	680	53	3	0·20	LTBR	60	10	20	10			x	35	15	x		2·65%	35	5	1	x
38	700	53	3	0·25	LTBR	60	10	20	10			x	20	10	x		2·10%	30	4	x	x
39	720	53	3	0·30	LTBR	60	10	20	10			x	40	10	x		1·85%	20	6	1	x
40	740	53	3	0·30	LTBR	60	10	20	10			x	25	10	x		2·20%	25	8	x	x
41	760	53	3	0·30	LTBR	70	10	20				x	10	85	x		1·70%	180	13	x	35
42	780	53	3	0·25	LTBRCR	70	10	20				x	10	15	x		4000	95	6	1	15
43	800	53	3	0·20	LTBR	70	10	20				x	10	10	x		1550	30	4	1	5
44	820	53	3	0·20	LTBR	70	10	20				5	10	20	x		3450	40	6	3	5
45	840	53	3	0·40	BR	60	10	20	10			x	5	20	x		2600	45	4	x	5
49446	3758 60	53	3	0·20	BR	60	10	30		ROAD		x	10	10	x		2050	40	4	1	10
		53	3																		
		53	3																		
49447	373 340E	53	3	0·80	BR	50	30	20		CREEK		30	x	385	x		11·0%	250	10	1	35
48	360	53	3	0·90	BRGN	70	10	20				185	25	110	x		10·0%	280	13	x	65
49	380	53	3	0·20	LTBR	70	10	20				25	35	50	x		2·45%	40	9	x	55
50	400	53	B-HOR 2	0·20	LTBR	70	10	10	10			20	45	30	x		2·15%	30	8	x	45
51	420	53	3	0·20	LTBR	60	10	20	10			20	55	40	x		2·95%	30	9	x	45
52	440	53	3	0·35	ORBR	60	10	30				150	10	125	x		13·0%	100	7	x	115
53	460	53	3	0·30	LTBR	70	10	20				20	55	20	x		2·95%	15	36	x	40
54	480	53	3	0·45	LTBR	80	10	10				30	10	95	x		9·75%	60	9	1	95
55	500	53	3	1·00	BR	90		10		CREEK		30	10	100	x		2·55%	50	9	x	65
56	520	53	3	0·40	LTBRGY	80	10	10				10	30	10	x		33·0%	20	4	1	30
57	540	53	3	0·30	BR	70	10	20				180	95	45	x		7·75%	30	5	x	35
58	560	53	3	0·20	LTGYBR	10	10	30		CREEK		185	90	25	x		3·00%	15	16	x	45
59	580	53	3	0·30	LTBR	70	10	20				110	60	20	x		3·05%	30	30	x	35
60	600	53	3	0·15	LTBR	50	10	30	10			25	105	50	0·5		1·50%	30	5	x	55
61	620	53	3	0·25	LTBR	70	10	20				60	115	50	x		2·15%	20	13	x	45
49462	3736 40	53	3	0·40	ORBR	70	10	20				30	10	1100	x		1·70%	50	8	x	10

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626174

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	AMG CO-ORDINATES: EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49463	364900N / 374600E	53	3	0·40	LTBR	70	10	20				10	20	20	X		1·90%	30	4	X	45
64	680	53	3	0·55	BRGN	60	30	10				30	5	140	X		3·50%	55	3	X	45
65	700	53	3	1·00	LTBR	70	10	20				115	X	110	X		9·10%	130	8	1	55
66	720	53	B-HORZ	1·50	LTBR	90	10					30	10	70	X		1·00%	30	4	X	55
67	740	53	3	0·80	LTBR	70	10	20		CREEK		100	65	245	X		2·20%	100	19	X	45
68	760	53	3	0·30	ORBR	90	5	5				110	35	45	X		3·95%	30	7	X	45
69	780	53	3	0·40	BR	70	10	20				5	10	70	X		5·70%	35	4	X	40
70	800	53	3	0·45	LTBR	60	10	30				10	80	15	X		5·50%	15	11	X	40
71	820	53	3	0·30	BR	70	10	20				10	10	15	X		1·00%	10	10	X	35
72	840	53	3	0·40	ORBR	50	20	30				350	90	95	X		10·10%	35	41	X	174
73	860	53	3	0·30	BR	70	10	20				35	95	60	0·5		2·35%	30	6	X	45
74	880	53	3	0·45	BR	50	20	30				50	140	235	X		4·35%	35	15	X	45
75	900	53	3	0·15	BR	70	10	20				5	40	15	X		7850	110	7	X	40
76	920	53	3	0·15	BROR	60	10	30				40	45	50	X		5·20%	170	7	X	40
77	940	53	3	0·40	ORBR	70	10	20				160	10	55	X		4·60%	50	5	X	55
78	960	53	3	0·90	ORYL	70	10	20				165	10	165	X		12·5%	325	9	X	25
79	980	53	3	1·20	ORBR	70	10	20				170	10	100	X		9·70%	140	11	X	45
49480	374000	53	3	0·40	ORBR	80	10	10				95	10	65	X		9·35%	80	6	X	40
81	020	53	3	1·20	ORBR	70	10	20				145	15	210	0·5		19·5%	470	10	X	20
82	040	53	3	0·40	BR	50	20	30				350	360	45	3·0		4·10%	135	14	X	35
83	060	53	3	0·40	BR	70	10	20		CREEK		230	110	460	X		10·0%	430	40	X	45
84	080	53	3	0·40	LTBRWH	60	20	20				100	15	100	X		9·4%	100	10	X	25
85	100	53	3	0·30	BR	70	10	20				20	5	20	X		3100	110	5	X	30
86	120	53	3	0·45	BR	60	10	30				110	10	110	X		4650	20	4	X	25
87	140	53	3	0·60	ORBR	70	10	20				100	75	240	X		10·5%	120	10	X	65
88	160	53	3	1·00	BR	70	20	10				60	25	75	0·5		1·40%	360	9	X	80
89	180	53	3	0·50	LTBR	70	10	20		CREEK		25	95	60	X		2·15%	35	9	X	70
90	200	53	3	0·15	BRYL	60	10	20	10			30	100	95	X		5·20%	4300	16	X	765
91	220	53	B-HORZ	0·15	BR	60	10	20	10			20	60	180	0·5		9·10%	2850	34	X	1150
49492	374240	53	B-HORZ	0·15	BR	60	10	20	10			115	910	180	0·5		3·10%	1125	20	1	1600

EZ Co of A Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626175

Project : Mt. Black E.L 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : McKinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm. unless specified): Cu ✓	Pb /	Zn	As	Au	Fe %	Mn	As	Sn	Ga
4949	3640 CON / 3740	5338-HOR	2	0-20	BR	60	10	20	10			15	95	105	X		5.10%	3150	30	X	145
94	280	53	3	0-30	ORBR	50	20	30				20	55	110	X		5.55%	1500	24	X	130
95	300	53	3	0-30	BR	70	10	20				15	65	100	X		4.25%	2400	28	X	1130
96	320	53	3	0-20	BR	60	20	10	10			15	150	100	X		6.15%	9300	11	X	200
97	340	53	3-HOR	2	0-20	LTBR	60	10	20	10			5	80	95	X		5.60%	6750	18	1	1150
98	360	53	3-HOR	2	0-20	LTBR	60	10	20	10			10	95	70	X		4.05%	1800	20	X	1010
99	380	53	3-HOR	2	0-10	LTBR	50	10	20	20			X	75	75	X		5.85%	1000	17	X	1050
500	400	53	3-HOR	2	0-15	LBR	60	10	20	10			X	105	70	0.5		3.50%	6750	10	X	845
		53		3																	
		53		3																	
		53		3																	
		53		3																	
		53		3																	
		53		3																	
50601	374420	53	BCHOR	3	0-20	LTBR	60	10	20	10			10	30	95	0.5		4.90%	1600	F	X	1170
		53		3																	
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EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626176

Project : Mt Black E.L 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu ✓	Pb ✓	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49601	3738300E	5533		0·60	BR	70	10	20				155	160	135	x		10·0%	130	25	x	35
2	900	5533		0·75	ORYL	70	10	20				35	440	510	x		6·0%	155	23	x	45
3	920	5533		0·80	YLBR	70	10	20				35	110	100	x		8·0·5%	115	1	x	70
4	940	5533		0·45	GYBR	70	10	20				40	70	80	x		1·0·5%	45	2	x	45
5	960	5533		1·00	BR	70	10	20				190	95	185	x		20·0%	130	27	x	55
6	980	5533		0·45	BROR	80	10	10				5	25	25	x		4·5%	80	2	x	55
7	3740000	5533		1·00	ORBR	60	10	30				x	30	45	x		1·0·0%	150	1	x	50
8	020	5533		1·45	BRGN	70	10	20				40	60	55	x		8·0·5%	115	1	x	40
9	040	5533		0·35	ORBR	70	10	20				30	55	35	x		7·5·5%	80	2	x	45
10	060	5533		0·45	ORBR	70	10	20		CREEK		470	45	265	x		8·7·0%	270	8	x	35
11	080	5533		0·30	ORBR	70	10	20		CREEK		25	105	165	x		6·1·5%	155	8	x	45
12	100	5533		0·45	OR	30	20	50				200	1900	4050	x		20·0%	1350	30	x	50
13	120	5533		0·40	LTBR	80	10	10				5	75	150	x		2·7·0%	145	5	x	45
49614	3741400	5533		0·35	LTBRGN	70	20	10				x	70	120	x		1·1·0%	115	7	x	70
15	160	5533		0·30	LTBR	60	10	20	10			x	x	110	x		8·5·0	110	1	x	55
16	180	5533		0·35	LTBR	70	20	10				x	15	15	x		1·7·0·0	75	1	x	50
17	200	533	3-HORZ	0·20	BR	60	10	20	10			x	40	120	x		1·7·0%	140	9	x	10
18	220	533		0·35	ORBR	70	10	20				25	60	70	x		3·7·0%	1130	22	x	15
19	240	533		0·30	LTBR	70	10	20				15	70	70	x		3·1·5%	90	20	1	15
20	260	533		0·35	LTBROR	70	10	20				10	120	65	x		3·9·5%	150	5	x	15
21	280	533	B-HORZ	0·15	DKBR	60	10	20	10			5	50	45	x		1·7·5%	155	7	x	x
22	300	533		0·50	YLOR	70	20	10				35	65	110	x		5·1·0%	180	24	x	x
23	320	533		0·40	LTBR	70	10	20				10	60	50	x		3·4·5%	160	18	x	50
24	340	533	B-HORZ	0·20	BRGY	70	10	10	10	CREEK		x	25	25	x		1·2·5%	140	2	x	x
25	360	533		0·30	LTBR	70	10	20				x	15	15	x		9·3·0·0	125	2	x	x
26	380	533		0·40	LTBR	70	10	20				x	35	30	x		3·R·0%	130	4	x	10
27	400	533		0·30	ORBR	60	10	20	10			15	40	55	x		4·7·5%	165	9	x	25
28	420	533	ABHORZ	0·10	DKBR	70	10	15	15			35	160	155	x		3·2·0%	1215	8	x	35
29	440	533		0·35	LTBR	70	10	20				10	135	135	x		3·2·5%	1280	7	x	30
49630	3744600	533		0·30	CRYL-BR	70	10	20				x	55	130	x		2·X·5%	1315	3	x	40

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626177

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mattinson Contractors
Date : Feb - March 1982

Size Fraction Analysed : -80*
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 36690CON; AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49631	374480E	53	3	0·30	ORBR	70	10	20				10	70	55	x		5·45%	335	7	x	50
32	500	53	3	0·45	ORBR	70	5	20	5			25	95	85	x		7·35%	305	16	x	50
33	520	53	B-HORZ	0·30	BR	60	10	20	10			60	150	115	x		4·75%	1935	61	x	50
34	540	53	B-HORZ	0·45	BROR	60	15	20	5			50	50	140	x		5·65%	1600	24	x	75
35	560	53	B-HORZ	0·30	BR	60	10	20	10			195	110	135	3·0		4·15%	8350	16	x	60
36	580	53	B-HORZ	0·45	BROR	60	10	30				550	80	355	x		15·0%	4650	52	x	125
37	600	53	3	0·30	ORBR	60	10	30	10			215	65	260	0·5		9·40%	5000	93	x	170
38	620	53	B-HORZ	0·45	BR	60	10	30				140	70	215	x		5·30%	11150	86	11	130
39	640	53	3	1·00	RDBR	70	10	20				220	65	300	x		10·0%	2100	97	x	45
40	660	53	3	0·45	ORYLBR	70	10	20				160	40	205	x		11·5%	6005	43	x	140
41	680	53	B-HORZ	0·20	BR	60	10	20	10			70	90	200	0·5		5·95%	7100	64	11	85
42	700	53	3	0·45	ORBR	70	10	20				130	90	355	x		8·20%	3300	83	x	125
43	720	53	3	0·30	BR	70	10	20				90	130	235	x		6·75%	5925	57	x	75
49644	374740	53	B-HORZ	0·45	YLOR	70	10	20				125	50	205	x		9·20%	4535	24	x	70
45	760	53	3	0·40	BR	70	10	20				175	80	275	x		10·0%	2300	52	x	85
46	780	53	3	0·45	ORBR	70	10	20				180	80	285	x		10·0%	2400	30	x	75
47	800	53	3	0·75	ORBR	70	10	20				215	115	405	x		11·5%	4675	55	x	85
48	820	53	B-HORZ	0·60	ORBR	60	10	30		TRAMWAY		340	200	1550	x		19·0%	6125	60	x	85
49	840	53	B-HORZ	0·30	ORBR	60	10	20	10			220	180	615	x		13·0%	5450	31	x	85
50	860	53	3	0·30	BR	60	10	20	10			110	120	365	x		9·00%	5345	16	x	135
51	880	53	3	0·35	ORBR	60	10	20	10	RIVER		70	95	205	x		7·35%	1250	14	x	140
52	900	53	3	0·65	ORBR	70	10	20				125	90	195	x		13·0%	7800	32	x	110
53	920	53	3	0·30	ORBR	70	10	20				30	85	75	x		6·00%	1855	13	x	60
54	940	53	3	0·20	BR	70	10	20				50	100	100	x		9·30%	1130	15	x	105
55	960	53	B-HORZ	0·15	BR	60	10	20	10			35	115	105	x		3·70%	3955	14	x	60
56	980	53	3	0·30	BR	30	20	50		RIVER		110	1300	1150	14·0		4·95%	1400	620	6	120
57	375000	53	3	0·40	ORBR	60	10	30				135	45	105	x		11·0%	6350	21	x	65
58	020	53	B-HORZ	0·20	BR	70	10	20	10	T-WAY		140	170	60	x		4·35%	1155	91	2	30
59	040	53	B-HORZ	0·20	BR	60	10	20	10			155	50	55	x		4·05%	4455	12	x	35
49660	375060	53	3	0·45	ORBR	80	10	10				110	45	60	x		9·70%	2000	99	x	55

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626178

Project : Mt Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49661	375 080E	53	3	0·75	ORBR	70	10	20				35	45	45	x		5·35%	75		x	35
62	100	53	3	0·48	ORBR	70	0	20				85	30	85	x		10·0%	145	6	X	45
63	120	53	B-HORZ	0·15	BR	60	10	20	10			50	90	75	x		5·65%	595	13	1	40
64	140	53	3	0·45	ORBR	60	20	20				35	75	70	x		4·60%	275	20	x	35
65	160	53	B-HORZ	0·30	BR	60	10	20	10			35	50	65	x		5·25%	600	8	1	50
66	180	53	B-HORZ	0·20	BR	60	10	20	10			35	55	60	x		3·15%	675	10	1	20
67	200	53	3	0·30	ORBR	70	10	20				20	30	55	x		5·80%	400	10	1	15
68	220	53	B-HORZ	0·30	BR	60	10	20	10			x	25	40	x		3·55%	110	2	x	10
69	240	53	B-HORZ	0·15	BR	60	10	20	10			5	65	30	x		1·70%	185	15	1	15
70	260	53	3	0·40	ORBR	70	20	10				x	15	35	x		3·40%	25	5	1·	20
71	230	53	B-HORZ	0·15	BR	60	10	20	10			5	70	50	x		3·00	80	1	5	x
49672	375 300	53	3	0·35	BROR	70	10	20				x	40	35	0·5		2·25%	35	6	x	15
73	320	53	B-HORZ	0·30	ORLTGY	60	10	20	10			x	20	15	x		1·95%	15	1	1	x
74	340	53	3	0·65	ORBR	70	10	20				x	20	35	x		5·20%	20	3	x	x
75	360	53	3	0·45	GYWH	70	10	20				x	10	35	x		4000	20	1	x	x
76	380	53	3	0·35	YLBR	70	10	20				30	45	115	0·5		4·55%	90	14	x	30
77	400	53	3	0·85	ORYL	80	10	10				50	30	110	x		5·15%	80	5	x	30
78	420	53	3	0·25	ORBR	60	10	20	10			25	70	125	x		4·75%	145	7	x	35
79	440	53	3	0·40	ORBR	70	10	20				20	20	60	x		5·40%	80	8	x	30
80	460	53	3	0·90	ORGN	70	10	20				45	130	45	0·5		2·05%	225	14	1	x
81	480	53	3	0·40	BR	70	10	20				5	30	15	1·0		1·45%	35	17	x	x
82	500	53	3	0·30	LTBRWH	70	10	20				x	25	5	0·5		1450	10	1	x	x
83	520	53	3	0·40	GYWH	70	10	20				x	5	10	0·5		500	5	x	x	x
84	540	53	3	0·50	WHGY	70	10	20				x	10	5	x		1150	5	x	1	x
49685	375555	53	3	0·30	LTBR	70	10	20				x	60	5	x		750	10	x	x	x
		53	3																		
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EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626179

Project : Mt Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Amlabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	U
49686	3667CON	373540E	53	3	0·40	WHBR	60	20	20				5	25	15	0·5		4450	10	X	17	55
87		560	53	A-HORZ	0·15	DKBR	60	10	20	10			10	45	45	X		1400	20	X	16	75
88		580	53	B-HORZ	0·20	BRGYWH	70	10	10	10			X	20	10	0·5		1400	110	X	15	55
89		600	53	3	0·30	LTBR	70	10	20				10	55	25	X		1·00%	20		11	325
90		620	53	B-HORZ	0·20	LTBR	70	10	15	5			5	50	20	X		2·50%	25	12	X	425
91		640	53	3	0·25	LTBR	70	10	20		MINE		X	65	10	1·0		3350	10	7	11	105
92		660	53	B-HORZ	0·25	LTBRWH	60	10	20	10			X	20	15	0·5		8900	20	2	X	35
93		680	53	B-HORZ	0·25	LTBR	60	10	20	10			10	335	15	6·0		1·25%	20	180	11	175
94		700	53	ABHORZ	0·30	DKBR	60	10	20	10			10	275	25	1·0		3·50%	40	250	5	80
95		720	53	B-HORZ	0·25	LTBR	70	10	20		CREEK		85	250	30	1·0		2·55%	405	95	2·	185
96		740	53	3	1·05	YLGN	70	10	20				20	45	45	X		4·50%	30	1	X	40
97		760	53	3	0·15	LTBR	60	10	20	10			5	60	30	X		2·50%	40	X	X	25
98		780	53	3	0·40	BR	80	10	10				5	105	55	X		3·45%	40	X	X	35
99		800	53	3	1·20	GNBR	70	10	20				25	120	185	X		7·55%	150	4	X	45
49700	373820		53	3	1·00	GYBR	70	10	20				15	75	25	X		1·35%	15	X	X	5
1		840	53	3	0·30	LTBR	70	10	20				35	60	75	0·5		2·90%	40	2	X	90
2		860	53	B-HORZ	0·20	BRGY	75	10	5	10	CREEK		30	85	60	X		3·00%	35	6	X	70
3		880	53	3	0·40	LTBR	70	10	20				35	75	25	X		1·50%	10	1	X	20
4		900	53	3	0·20	BRGYGN	90	5	5				35	55	45	X		3·65%	45	3	X	35
5		920	53	3	0·75	LTBR	70	10	20				30	40	60	X		2·70%	955	1·	X	40
6		940	53	3	0·30	GYOR	85	10	5				20	40	35	X		2·05%	50	3	X	40
7		960	53	3	0·40	BR	70	10	20				25	65	45	X		4·35%	95	3	11	55
8		980	53	3	0·45	GYOR	80	10	10				10	35	45	X		3·35%	65	X	X	40
9	374000		53	3	0·60	GYBR	70	10	20				50	30	45	X		4·00%	40	5	X	70
10		020	53	3	0·45	BR	80	10	10				30	20	40	X		5·75%	50	X	X	60
11		040	53	3	0·65	BR	70	10	20				50	45	75	X		5·50%	320	2	X	90
12		060	53	A-HORZ	0·10	DKBR	60	20	10	10			55	115	85	X		5·20%	1·30%	23	X	55
13		080	53	3	0·55	ORBR	70	10	20				55	50	55	X		7·35%	145	17	11	85
14		100	53	3	1·00	YLGNBR							70	60	65	X		7·50%	160	13	X	80
49715	374120		53	3	0·75	ORBR	70	10	20				140	45	120	X		13·5%	8·30	19	X	95

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626180

Project : Mt Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand shell auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 36670 N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu /	Pb /	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49716	374140E	53	3	0·25	ORYL	70	15	15				25	35	40	1·0		5·40%	195	7	x	70
17	160	53	3	0·60	GYBR	70	10	20				35	60	65	1·5		4·40%	145	17	1	55
18	180	53	3	0·45	ORBR	80	10	10				65	150	65	0·5		6·65%	410	29	x	35
19	200	53	3	0·20	ORBR	70	10	20				35	205	55	1·0		3·60%	240	24	x	55
20	220	53	3	0·60	ORBR	70	10	20				185	55	185	1·0		10·0%	630	23	x	45
21	240	53	B-HOR2	0·45	ORBR	90	10					40	60	40	0·5		4·85%	165	19	x	75
22	260	53	3	0·30	ORBR	70	10	20				55	95	70	1·0		5·00%	445	26	x	30
23	280	53	3	0·45	BROR	80	10	10				25	180	135	1·0		3·10%	710	1000	x	55
24	300	53	3	0·45	ORBR	70	10	20				30	50	70	0·5		7·70%	2415	110	x	35
25	320	53	3	0·40	BR	70	10	20				40	70	90	0·5		8·65%	3310	19	x	70
26	340	53	B-HOR2	0·30	BR	60	10	20	10			110	50	20	0·5		1·60%	550	3	x	55
27	360	53	B-HOR2	0·20	BROR	60	20	10	10			70	40	70	0·5		8·20%	3415	11	x	75
28	380	53	3	0·45	ORBR	70	10	20				160	55	145	x		11·0%	11775	37	x	1100
49729	374400	53	3	1·00	ORBR	85		15				135	60	110	1·0		14·0%	1155	61	3	70
30	420	53	3	0·45	ORBR	70	10	20				135	110	100	x		8·90%	1120	23	x	35
31	440	53	3	0·95	ORYL	70	10	20				120	95	70	1·0		6·10%	740	21	x	50
32	460	53	3	0·60	ORBR	70	10	20				125	100	180	1·0		8·50%	2150	115	x	55
33	480	53	B-HOR2	0·20	ORBR	60	20	10	10			95	40	165	x		11·5%	1185	3	x	730
34	500	53	3	0·30	LTBR	70	10	20				85	160	60	x		7·00%	755	20	2	370
35	520	53	3	0·30	ORBR	70	10	20				60	65	100	2·0		5·75%	1200	56	x	55
36	540	53	B-HOR2	0·25	ORBR	70	10	10	10			55	90	120	0·5		7·50%	1520	64	1	275
37	560	53	3	0·45	ORBR	70	10	20				140	80	210	x		10·5%	1370	85	5	410
38	580	53	3	1·00	ORBR	80	10	10				105	55	140	0·5		10·0%	5550	30	1	455
39	600	53	3	0·65	ORBR	70	10	20				90	70	185	x		10·0%	1190	114	5	640
40	620	53	3	0·45	ORBR	80	10	10				80	45	195	x		4·20%	345	17	x	730
41	640	53	B-HOR2	0·30	BR	70	10	20				75	50	60	2·5		4·40%	1625	330	1	195
42	660	53	3	0·30	BR	70	10	20				35	50	40	0·5		2·50%	710	62	x	60
43	680	53	B-HOR2	0·20	LTBRWH	60	10	20	10			60	55	590	0·5		4·70%	1180	20	1	55
44	700	53	B-HOR2	0·25	BR	70	5	20	5			150	95	175	x		4·30%	5000	24	x	115
49745	374720	53	B-HOR2	0·25	BR	70	10	10	10			200	150	480	10		11·5%	16400	56	x	130

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626181

Project : ML Black E.L 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mollinson Contractors
Date : Feb - March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu /	Pb /	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49746	366700N 37470E	5338	H.O.R. 2	0·30	BR	60	10	20	10			105	100	170	X		4·35%	2150	50	1	45
47	760	5338	" " 3	0·25	BR	60	10	20	10			150	45	145	X		8·80%	1550	100	X	40
48	780	5338	" " 3	0·35	BR	50	10	30	10			140	455	1100	X		10·00%	5550	20	1	80
49	800	5338	" " 3	0·25	ORBR	60	10	10				150	230	320	1·0		8 85%	1200	15	X	35
50	820	5338	" " 3	0·15	BR	60	10	20	10			90	680	385	0·5		5 25%	1550	22	X	170
51	840	5338	" " 3	0·15	BR	60	10	20	10			140	180	435	1·0		9·75%	1150	35	X	115
52	860	5338	" " 3	0·15	ORBR	60	10	20	10	SCALE		105	130	305	X		9·60%	720	15	X	165
53	880	5338	" " 3	0·20	ORBR	60	10	20	10			15	35	85	0·5		6 10%	505	5	X	55
54	900	5338	3	0·30	YLBR	70	10	20				10	20	25	0·5		3 75%	180	8	X	30
55	920	5338	3	0·30	YLBR	70	10	20				30	30	35	1·0		4 10%	135	13	X	50
56	940	5338	3	0·30	ORBR	60	10	20	10			45	50	70	0·5		8·50%	8200	210	X	40
57	960	5338	3	0·80	LTBR	70	10	20				45	95	75	0·5		5 45%	1505	38	X	100
58	980	5338 B/C	3	0·25	BR	60	10	20	10			25	155	155	0·5		2·85%	620	17	1	50
49759	375000	533	3	0·30	ORBR	70	10	20		TRAM		50	70	240	X		6 30%	1150	115	X	50
60	020	533	3	0·45	ORBR	70	10	20				55	50	85	X		5·40%	980	110	X	50
61	040	533	3	0·30	ORBR	60	10	20	10			50	75	85	X		4·85%	1550	112	X	50
62	060	533	3	0·30	BR	70	10	15	5			75	55	115	X		5·65%	3850	118	X	55
63	080	533 B Hor	3	0·20	ORBR	60	10	20	10			40	70	85	X		4 05%	3000	112	X	50
64	100	533	3	0·20	ORBR	70	10	20				75	65	95	X		5 55%	1150	116	X	60
65	120	533	3	0·30	BR	70	10	20				45	65	85	X		4 35%	1500	110	X	55
66	140	533 B/C	3	0·20	ORBR	60	10	20	10			70	65	90	X		5 55%	715	118	2	65
67	160	533 B/C	3	0·20	GYBR	60	10	20	10			40	45	65	X		3·75%	395	9	X	40
68	180	533 B/C	3	0·15	ORBR	60	10	20	10			20	25	45	X		1 75%	145	9	X	25
69	200	533 B/C	3	0·15	BR	60	10	20	10			30	40	155	X		2 35%	215	10	X	30
70	220	533 B/C	3	0·40	YLBR	70	10	10	10			10	15	40	X		3·45%	95	8	X	30
71	240	533 B/C	3	0·20	BR	60	10	20	10			20	40	50	X		2 80%	65	13	X	30
72	260	533	3	0·30	LTBR	80	10	10				5	5	15	X		94 00	25	6	X	20
73	280	533	3	0·25	LTBR	70	10	20				10	10	20	X		1 05%	65	4	X	30
74	300	533	3	0·50	YLOR	70	20	10				10	5	145	X		4 60%	100	7	1	10
49775	375320	513	3	0·15	BR	60	10	20	10			10	40	40	X		2 70%	75	14	X	10

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626182

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 366 7.00N; Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49.776	37534.0	513	3	0·75	YLBR	70	10	20				30	25	70	x		4·35%	65	117	x	35
7.77	36.0	513	3	0·30	LTBR	70	10	20				15	15	25	x		1·30%	30	110	x	35
7.78	38.0	513	3	0·30	YLOR	70	10	20				35	20	55	x		4·55%	50	111	x	35
7.79	40.0	513	3	0·30	LTBR	70	10	20				45	140	100	x		5·45%	3300	918	x	20
7.80	42.0	513	3	0·75	YLOR	75	20	5				40	590	325	x		8·80%	1100	915	x	15

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626183

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mollinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
7817	366500N / 37620	5313	3	0·15	WHTBR	60	10	20	10			x	10	25	x		1·45%	350	8	2	145
7812	6400	5313 BIOHOR	3	0·10	DKGYBR	60	10	10	20			30	50	30	x		4450	325	3	1	145
7813	6600	5313 BIOHOR	3	0·15	BR	60	10	20	10			30	55	35	x		6750	400	7	x	115
7814	6800	5313	3	0·20	BR	80	10	10				20	25	35	x		2·60%	325	2	x	115
7815	7000	5313 BHOR	3	0·15	BR	60	10	20	10			15	40	35	1·0		1·45%	455	7	2	100
7816	7200	5313 BHOR	3	0·50	DKBR	30	20	50		MN ME		1500	1·05%	1150	95		13·0%	2·00%	2900	14	100
7817	7400	5313	3	0·40	ORBR	70	10	20				20	525	55	2·0		5·70%	1130	100	1	35
7818	7600	5313	3	0·150	ORBR	70	10	20				20	190	65	1·0		5·50%	1450	110	x	145
7819	7800	5313	3	0·50	LTOR	70	10	20				30	100	35	1·0		3·20%	450	100	x	145
7820	8000	5313	3	0·40	ORBR	70	10	20				50	145	50	0·5		6·30%	850	200	x	150
7821	8200	5313	3	0·30	ORBR	70	10	20				50	95	65	0·5		5·90%	650	200	x	65
7822	8400	5313	3	0·90	PLGN	60	20	20				55	880	200	4·0		3·60%	400	325	5	55
7823	8600	5313	3	0·30	BR	70	10	20				45	410	125	0·5		1·95%	150	225	x	150
7824	8800	5313	3	0·90	YLGR	60	20	20				70	70	85	x		2·45%	350	14	x	45
7825	9000	5313	3	0·30	LTBR	70	10	20				30	75	15	1·0		6250	100	10	x	80
7826	9200	5313	3	0·75	GNBR	70	10	20				150	70	225	0·5		6·00%	1050	21	x	25
7827	9400	5313	3	0·25	LTBR	70	10	20				20	95	50	0·5		1·25%	450	32	x	65
7828	9600	5313	3	0·30	GY	80	10	10				5	200	10	0·5		3450	100	32	1	75
7829	9800	5313	3	0·60	ORLTBR	70	10	20				65	125	60	1·0		5·50%	700	32	x	65
8000	374000	5313	3	0·45	GNBR	70	10	20				20	205	15	1·5		1·10%	320	45	x	65

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626184

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mathinsen Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
5000 1	366300N / 37336	53	3	0-30	6YLTBR	70	10	20				20	100	15	2·0		2300	5	43		10
2	940	53	3	0-30	LTBR	50	20	30				25	120	25	1·5		3800	10	60		35
3	920	53	3	0-40	ORBR6Y	70	10	20				250	1400	95	2·5		5·00%	940	1100		50
4	900	53	3	0-20	ORBR	60	10	30		MINE TAILS		3600	1·11%	200	5·0		6·65%	1·00%	810		1100
5	880	53	3	0-60	6Y	70	10	20				70	45	85	1·5		4·65%	165	50		X
6	860	53	3	0-90	BR6Y	70	10	20				35	10	55	0·5		1·95%	25	5		X
7	840	53	3	1·30	ORBR	70	10	20				45	15	80	X		4·65%	30	24		X
8	820	53	3	0-30	LTBR							35	10	60	X		2·25%	25	23		1
9	800	53	3	0-30	BR	40		20	40			70	70	85	X		7150	50	10		2
10	780	53	3	0-30	LTBR	70	10	10	10			40	40	60	X		7800	65	8		1
11	760	53	3	0-25	BR	60	10	20	10			40	25	70	X		5300	40	4		2
12	740	53	3	0-25	LTBR	60	10	20	10			30	15	75	X		5550	35	6		1
13	720	53	3	0-20	LTBRGY	60	10	10	20			35	15	70	X		3450	20	1		1
14	700	53	3	0-30	LTBR	50	10	10	20			30	35	60	X		9400	25	12		2
15	680	53	3	0-25	LTBR	60	10	20	10			35	30	50	X		3·15%	35	6		1
16	660	53	3	0-30	LTBR	70	10	10	10			25	45	50	X		1·55%	30	24		1
17	640	53	3	0-20	BR	60	10	10	20			130	150	110	0·5		49·0	20	2		2
18	620	53	3	0-20	DKBR	65	10	5	20			55	75	65	0·5		2·20%	70	9		2
19	600	53	3	0-10	DKBR	75		5	20			35	95	90	0·5		6150	35	3		X

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626185

Project : Mt Black E.L 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50020	5 366100N	373560	5 3 C	NOR 3	0·45	CYWH	70	10	20				15	10	20	x		1.55%	10	x	x	15
21		580	5 3 BC	NOR 3	0·75	BR	50	10	20	20			60	20	65	x		6.40%	35	1	1	35
22		600	5 3 AB	NOR 3	0·20	CY	60	10	10	20			40	25	50	x		9.50%	100	10	x	170
23		620	5 3 BC	NOR 3	0·30	CYBR	60	10	10	20			30	30	40	x		5.05%	25	8	x	80
24		640	5 3 C	NOR 3	0·30	BR	80	10	10				15	30	20	x		4.65%	110	6	1	90
25		660	5 3 C	NOR 3	0·60	LTBR	70	10	20				30	25	40	x		2.10%	100	11	x	135
26		680	5 3 C	NOR 3	0·30	CY	80	10	10				15	45	35	x		1.75%	115	6	1	125
27		700	5 3 B	NOR 3	0·15	BR	60	10	10	20			45	55	60	0·5		6.95%	35	4	2	210
28		720	5 3 BC	NOR 3	0·15	BR	70	10	10	10			40	55	50	x		4.55%	75	1	x	35
29		740	3 C	NOR 3	0·50	LTBR	70	10	20				30	20	60	x		3.15%	25	10	x	75
30		760	5 3 BC	NOR 3	0·15	CY	70	10	10	10			30	30	55	x		5.05%	25	1	1	210
31		780	5 3 C	NOR 3	1·00	LTBR	70	10	20				10	20	20	x		2.65%	5	1	1	65
32		800	5 3 C	NOR 3	0·25	BR	80	10	10				20	30	55	x		9.60%	15	x	1	375
33		820	5 3 C	NOR 3	0·40	LTBR	70	10	20				15	15	50	x		5.10%	10	2	2	230
34		840	5 3 C	NOR 3	0·50	CRBR	80	10	10				25	15	80	x		4.20%	30	2	1	70
35		860	5 3 C	NOR 3	0·40	LTBR	70	10	20				15	15	40	x		1.15%	15	2	x	140
36		880	5 3 C	NOR 3	0·50	4LBR	80	5	10	5			35	25	55	x		5.30%	30	16	x	165
37		900	5 3 C	NOR 3	0·40	LTBR	70	10	20				30	25	35	x		8.50	15	1	x	90
38		920	5 3 C	NOR 3	0·35	CYWH	70	10	20				5	55	10	0·5		1.30	x	x	6	35
39		940	5 3 C	NOR 3	0·40	LTCY	70	10	20				5	455	5	1·0		2.95	x	10	4	30
40		960	5 3 C	NOR 3	0·45	WHCY	80	10	10				15	420	10	2·5		1.35	x	17	20	10
41		980	5 3 C	NOR 3	0·30	BR	60	10	10	20			10	20	15	x		6.50	5	1	x	15
42	374000		5 3 C	NOR 3	0·45	LTCY	60	10	20	10			10	30	10	x		1.45	5	3	x	15
43		20	5 3 B	NOR 3	0·40	BR	60	10	10	20			30	20	50	0·5		1.15	20	x	2	15
44		40	3 BC	NOR	0·15	LTBY	60	10	20	10			75	70	65	0·5		2.25	40	x	2	10
45		60	3 B	NOR	0·10	LTBR	60	10	20	10			20	35	35	0·5		2.85	15	10	x	20
46		80	5 3 B	NOR	0·15	BR	60	10	20	10			25	25	40	x		1.15	10	1	1	15
47		100	5 3 B	NOR 3	0·15	LTBR	60	10	20	10			15	20	20	x		1.05	10	x	x	10
48		20	5 3 C	NOR 3	0·40	CYBR	70	10	20				5	25	10	x		2.35	5	4	5	10
49		40	5 3 C	NOR 3	0·50	CY	70	10	20				10	40	25	x		1.00%	20	33	x	15

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626186

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
5	366100N																				
50050	37460	5538C	NOR3	0·15	BR	70	10	20				10	35	10		X	1·65%	10	17	X	15
51	80	538C	NOR3	0·50	LTBR	70	10	20				10	30	10		X	1·00%	5	9	X	15
52	200	53C	NOR3	0·60	LTGY	70	10	20				15	25	10	0·5		5150	5	X	X	5
53	20	53C	NOR3	0·75	LTGY	70	10	20				5	35	5	0·5		3300	5	X	X	25
54	40	53BC	NOR3	0·20	LTBR	60	10	20	10			10	10	5		X	3150	5	X	X	15
55	60	53C	NOR3	0·20	LTBR	70	10	20				5	15	10	0·5		4450	5	5	X	15
56	80	53C	NOR3	0·40	LTBR	70	10	20				X	10	10		X	1·00%	10	8	X	15
57	300	53C	NOR3	0·30	ORYLBR	70	10	20				5	25	15		X	1·45%	200	11	X	15
58	20	53B	NOR3	0·20	LTBR	70	10	20				5	20	5	0·5		2950	10	23	X	10
59	40	53B	NOR3	0·30	LTBR	60	10	20	10			5	20	15		X	1650	10	22	X	10
60	60	53BC	NOR3	0·25	LTBR	60	10	20	10			10	20	10		X	1200	5	X	X	10
61	80	53BC	NOR3	0·15	LTBR	60	10	20	10			10	40	15	0·5		3450	10	4	X	10
62	400	53C	NOR3	1·00	ORBR	70	10	20				20	25	25		X	2·75%	10	6	X	15
63	20	53C	NOR3	0·40	LTBRYL	70	10	20				15	45	20		X	1·95%	10	18	X	15
64	40	53C	NOR3	0·60	CY	70	10	20				30	60	20		X	1·00%	10	9	X	10
65	60	53C	NOR3	0·60	LTGYBR	70	10	20				5	160	10		X	4300	5	11	X	5
66	80	53C	NOR3	0·30	LTBR	70	10	20				5	105	10		X	3250	5	2	X	10
67	500	53C	NOR3	0·30	LTBR	70	10	20				5	110	15		X	1850	5	1	2	10
68	20	53BC	NOR3	0·30	LTBR	70	10	20				5	75	10		X	1050	5	X	1	10
69	40	53C	NOR3	1·20	ORBR	70	10	20				10	50	10		X	2·30%	10	22	X	5
70	60	53C	NOR3	0·30	LTBR	70	10	20				10	65	10		X	6300	10	7	1	5
71	80	53B	NOR3	0·30	BR	60	10	20	10			10	65	20	0·5		1750	10	1	1	10
72	600	538C	HOR3	0·20	LTBR	70	10	20				5	30	10		X	4050	10	10	1	10
73	20	53	3	0·35	ORBR	70	10	20				10	45	20		X	1·85%	35	14	X	30
74	40	53	3	0·50	ORBR	70	10	20				110	50	95		X	9·05%	4950	3	X	70
75	60	53	3	0·60	ORBR	70	10	20				70	30	90		X	7·05%	2650	3	X	55
76	80	53	3	0·45	ORBR	70	10	20				70	30	70		X	7·00%	545	8	X	55
77	700	53	3	0·50	ORBR	70	10	20				50	30	70		X	6·20%	355	6	X	45
78	20	53	3	0·100	ORBR	60	10	20	10			45	46	55		X	3·55%	205	7	X	40
50079	37470	53	3	1·00	ORBR	70	10	20				95	35	70		X	6·90%	55	9	X	55

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626187

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 366100N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50080	374760	53	3	0·40	ORBR	70	10	20				125	45	220		x	6·95%	1455		x	50
81	80	53	3	0·40	ORBR	70	10	20				115	50	195		x	7·55%	4555		x	50
82	800	53 B HOR	3	0·20	BR	60	10	20	10			110	60	100		x	5·65%	1175	7	11	60
83	20	53	3	0·30	LTBR	70	10	20				20	30	30		x	3·05%	2710	7	x	25
84	40	53 BC HOR	3	0·20	LTBR	60	10	20	10			10	20	10		x	59 50	35	x	13	20
85	60	53	3	0·50	ORBR	70	10	20				30	25	25		x	6·30%	6215	9	11	35
86	80	53	3	0·60	ORBR	70	10	20				45	25	60		x	10·55%	4050	6	11	65
87	900	53	3	0·20	ORBR	70	10	20				25	30	45		x	6·40%	7150	x	x	50
88	20	53	3	0·60	ORBR	70	10	20				40	25	45		x	5·85%	11750	2	x	45
89	40	53	3	0·40	ORBR	70	10	20				70	45	80		x	7·45%	15550	7	x	55
90	60	53	3	0·40	ORBR	70	10	20				85	50	100		x	7·60%	12200	7	11	35
91	80	53 B HOR	3	0·20	ORBR	70	10	20				40	85	140		x	9·10%	5300	11	11	50
92	375000	53 B HOR	3	0·30	BR	60	10	20	10			60	70	100		x	9·20%	4630	16	11	45
93	20	53	3	0·30	BR	70	10	20				65	55	100		x	4·50%	17350	2	x	55
94	40	53 B HOR	3	0·20	BR	70	10	20		RIVER		40	170	140		x	5·55%	14200	26	x	35
95	60	53	3	0·30	ORBR	70	10	20				100	110	200	0·5		10·5%	5050	20	2	45
96	80	53 B HOR	3	0·15	BR	70	10	20				45	90	180		x	5·40%	11250	21	2	45
97	100	53 B HOR	3	0·20	BR	60	10	20	10			45	95	70		x	4·65%	6550	38	x	40
98	20	53 B HOR	3	0·20	BR	70	10	20				20	55	60		x	3·60%	3000	20	1	30
99	40	53 BC HOR	3	0·30	ORBR	60	10	20	10			15	40	45		x	3·55%	1050	15	1	35
50100	60	53	3	0·45	ORBR	70	10	20				15	5	40		x	4·65%	650	5	x	30
01	80	53	3	0·75	ORBR	70	10	20				20	50	35		x	5·40%	5050	22	x	25
02	200	53 B HOR	3	0·30	LTBR	60	10	20	10	CREEK		15	20	35	0·5		5600	3050	12	x	15
03	20	53	3	0·75	ORBR	70	10	20				20	30	65		x	6·85%	6050	10	x	25
04	40	53 B HOR	3	0·30	BR	60	10	20	10	CREEK		30	85	55		x	4·45%	10550	20	x	20
05	60	53 B HOR		0·20	BR	60	10	20	10			20	60	75		x	4·40%	3500	17	x	25
06	80	53 BC HOR	3	0·30	OR	60	10	20	10	CREEK		35	50	100	0·5		4·45%	7150	13	x	20
07	300	53 BC HOR	3	0·40	LTGNBR	60	10	20	10			15	75	80		x	6·50%	11550	110	x	25
08	20	53 B HOR	3	0·30	LTBR	70	10	20				20	50	35		x	4·15%	11050	95	x	30
09	40	53 BC HOR	3	0·15	LTBR	60	10	20	10			10	40	25		x	1·05%	11250	61	1	25

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626188

Project : Mt Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb - March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 366/00N; AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
5010	37536	5313	3	0.40	RBR	70	10	20				10	80	60	x		4.55%	490	34	1	25
11	80	5313	B HOR 3	0.30	BR	60	10	20	10			15	130	135	x		5.30%	1170	81	1	55
12	400	5313	3	0.60	BR	70	10	20				10	75	140	x		3.30%	600	117	x	30
13	20	5313	3	0.60	RBR	70	10	20				10	25	60	x		5.85%	910	36	1	45
14	40	5313	3	0.40	RBR	70	10	20				10	25	65	x		6.10%	1130	80	x	35
15	60	5313	B CHOR 3	0.20	BR	60	10	20	10			5	25	90	x		4.75%	1180	113	x	20
16	80	5313	3	0.50	RBR	70	10	20				10	45	25	x		3.35%	30	6	x	25
17	500	5313	B CHOR 3	0.30	LTBR	60	10	20	10			10	90	45	x		1.05%	35	3	1	15
18	20	5313	B HOR 3	0.30	BR	60	10	20	10			15	70	90	x		4.25%	2960	18	x	25
19	40	5313	3	0.60	BR	70	10	20			River	20	85	110	x		4.85%	19500	451	x	60
		5313	3																	

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626189

Project : Mt Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (p.p.m. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50120	365900N / 375360	53	3	0·45	ORBR	70	10	20				110	140	170	x		4·50%	95	25	1	65
21	40	53	3	1·00	ORBR	70	10	20				5	20	10	x		2·55%	5	25	x	15
22	20	53	3	0·15	ORBR	70	10	10	10			5	35	30	x		1·45%	30	15	2	60
23	300	53	3	0·75	ORBR	70	10	20				15	20	25	x		2·30%	110	20	x	15
24	80	53	3	0·45	LT GY	70	10	20				x	15	10	0·5		3550	5	15	1	115
25	60	53	3	1·00	ORBR	70	10	20				110	25	30	x		3·15%	50	18	x	30
26	40	53	3	0·40	BR	70	10	20				10	75	20	x		3·25%	8350	7	2	35
27	20	53	3	0·40	GYBR	70	10	20		POSS CREEK		20	190	200	0·5		4·00%	6900	15	x	115
28	200	53	3	0·50	ORYL	80	10	10				60	20	135	x		6·75%	10250	20	x	10
29	80	53	3 B HOR	0·30	LTBR	70	10	20				110	10	30	x		3·10%	85	14	x	5
30	60	53	3	0·35	ORYL	70	10	20				120	10	30	x		4·30%	2300	10	x	5
31	40	53	3	0·40	ORBR	70	10	20				190	20	30	x		4·65%	75	11	x	115
32	20	53	3	0·25	ORBR	70	10	20				175	20	35	x		3·05%	1055	9	1	120
33	100	53	3	0·30	ORBR	70	10	20				45	20	65	x		5·45%	4155	11	1	40
34	80	53	3	0·30	ORBR	70	10	20				45	70	75	x		5·55%	550	16	x	50
35	60	53	3	0·30	BR	70	10	20				35	70	90	x		5·55%	2450	13	1	55
36	40	53	3 BCHOR	0·25	BR	70	10	10	10			260	85	120	x		7·35%	1050	22	2	60
37	20	53	3 B HOR	0·30	BR	70	10	20				60	30	85	x		7·30%	6150	16	2	55
38	375000	53	3 BCHOR	0·25	ORBR	70	10	20		RIVER		40	25	65	x		7·15%	6500	12	1	50
39	980	53	3 B HOR	0·30	BR	60	20	20		RIVER		70	85	105	x		7·70%	8400	20	x	60
40	60	53	3	0·45	ORBR	80	10	10				35	25	55	x		6·15%	940	9	x	45
41	40	53	3	0·40	ORBR	70	20	10				65	40	60	x		6·30%	3350	11	x	45
42	20	53	3 BCHOR	0·15	ORBR	80	10	10				30	80	70	x		6·80%	3400	18	x	45
43	900	53	3	0·20	BR	70	10	20				45	55	50	x		5·65%	2150	20	x	35
44	80	53	3	0·30	ORBR	80	10	10				30	40	40	x		6·25%	235	4	x	50
45	60	53	3	0·30	YLBR	70	10	20				55	40	85	x		7·55%	6450	8	x	65
46	40	53	3 BCHOR	0·20	YLBR	70	10	20				45	65	60	x		5·35%	440	11	x	60
47	20	53	3 B HOR	0·10	LTBR	60	10	20	10			30	80	55	x		3·55%	295	10	x	50
48	800	53	3 BCHOR	0·20	BR	70	10	10	10			40	175	85	x		8·15%	500	8	x	125
50149	374780	53	3	0·40	ORBR	70	10	20				20	60	60	x		4·75%	395	5	x	55

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626190

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : McKinnon Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Amlabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
	365900N																				
50	150 374760	53	3	0·40	GN BR	70	10	20				155	90	155		X	7·65%	765	20	X	65
51	40	53	3	0·30	BR	70	10	20				155	100	320		X	5·15%	2915	19	X	50
52	20	53	3	0·25	BR	70	10	20				120	105	445		X	14·0%	3600	14	X	60
53	700	53	3	0·40	ORBR	70	10	20				165	80	135		X	12·5%	1555	14	X	75
54	80	53	3	0·15	BR	60	10	30				15	70	50		X	4·10%	1115	8	X	35
55	60	53	B HOR 3	0·40	DKBR	70	10	20				155	105	140		X	10·0%	3800	8	X	75
56	40	53	3	0·45	ORBR	80	10	10				95	80	155		X	7·75%	9100	6	X	65
57	20	53	BC HOR 3	0·40	BR	70	10	20				75	85	205		X	7·35%	28500	20	X	70
58	600	53	3	0·35	ORBR	80	10	10				60	65	55		X	6·60%	1130	17	X	40
59	800	53	3	1·00	ORBR	70	10	20				30	45	80		X	5·55%	615	12	X	55
60	600	53	3	0·30	ORBR	80	10	10				35	70	80		X	5·55%	3410	12	X	60
61	40	53	B HOR 3	0·15	BR	60	10	20	10			80	110	120		X	7·50%	2500	37	1	95
62	20	53	B HOR 3	0·20	ORBR	70	5	25		RIVER		50	80	100		X	8·10%	6750	17	X	65
63	500	53	B HOR 3	0·15	ORBR	70	10	20				10	60	20		X	7700	90	7	X	15
64	80	53	3	0·30	GNGYOR	80	10	10				X	80	110		X	11·05%	115	4	3	10
65	60	53	B HOR 3	0·20	BR	60	10	20	10			5	75	35		X	2000	155	1	X	5
66	40	53	3	0·20	WHGY	50	20	30				X	45	10		X	1750	110	X	X	10
67	20	53	B HOR 3	0·20	BR	60	10	20	10			X	60	20	0·5		2400	5	X	3	10
68	400	53	3	0·35	LTBRWH	60	20	20				X	40	30		X	500	5	X	X	10
69	80	53	3	1·00	LTBR	70	10	20				X	50	10		X	1550	5	1	2	5
70	60	53	3	0·95	BLWH	50	20	30				X	30	15		X	3650	5	2	2	5
71	40	53	3	0·40	GYWH	70	10	20				X	35	5	0·5		1350	5	7	X	5
72	20	53	3	0·40	GYWH	70	10	10				X	55	10		X	2150	5	1	1	5
73	300	53	BC HOR 3	0·15	LTBR	60	10	20	10			5	60	25		X	3650	10	4	1	5
74	80	53	3	0·95	GYLTBR	60	30	10				X	50	10		X	1600	10	6	X	X
75	60	53	3	0·40	LTBR	70	10	20				X	50	15	0·5		2700	X	10	X	5
76	40	53	3	0·35	BLLTBR	70	10	20				X	50	15		X	2000	5	3	X	X
77	20	53	BC HOR 3	0·20	LTBR	70	10	20				X	50	15		X	2250	5	3	1	5
78	200	53	3	0·40	BLGYWH	70	10	20				X	25	10		X	700	X	X	X	X
79	374180	53	3	0·30	LTBR	70	10	20				5	45	10		X	11·70%	25	8	X	X

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626191

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mellinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu ✓	Pb ✓	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50180	365900N 374160	53	3	0·35	DK-LT BR	70	10	10	10			10	10	30	0·5		4050	10		X	30
81	40	53	3	0·30	LT BR	70	10	20				5	140	40	0·5		2050	15		X	25
82	20	53	3	0·30	LT BR WH	70	10	20				X	10	10	0·5		2250	15		X	15
83	100	53	3	0·30	LT BR	70	10	20				X	10	10	X		2150	10		X	10
84	80	53	3	0·35	LT BR GY	70	10	20				X	15	10	1·0		2050	10		X	10
85	60	53	3	0·75	LT GY	70	10	20				X	10	5	X		2350	10		X	20
86	40	53	3	0·45	B LGY	30	10	60				X	10	10	1·0		2200	10		X	15
87	20	53	3	0·20	LT BR	70	10	20				X	35	5	0·5		1050	10		X	10
88	374000	53	3	0·35	LT BR	60	10	30				X	35	10	0·5		1650	5		1	15
89	980	53	3	0·30	LT BR	70	10	20				X	65	5	0·5		650	5		X	10
90	60	53	3	0·15	LT BR	60	20	20				X	5	15	0·5		1150	5		X	5
91	40	53	3	0·30	LT BR	70	10	20		ROAD		X	440	5	0·5		600	5		X	10
92	20	53	3	0·25	P LGY	60	20	20				X	35	5	1·0		1050	15		X	15
93	900	53	3	0·30	LT BR	70	10	20				X	15	30	X		1700	40		X	5
94	80	53	3	1·10	GN BR	70	10	20				115	195	85	X		3700	70		X	490
95	60	53	3	0·50	LT BR	70	10	20				10	195	20	0·5		150	10		X	320
96	40	53	3	0·45	OR BR	80	10	10				145	115	300	X		600	430		X	405
97	20	53	3	0·30	BC HOR BR	60	10	20	10			10	40	35	0·5		1150	25		X	215
98	800	53	3	0·15	LT BR	70	10	10	10			15	25	30	0·5		1·00%	20		X	235
99	80	53	3	0·15	B HOR BR	60	10	20	10			10	45	65	X		5100	30		X	190
50200	373760	53	3	0·45	LT BR	60	10	20	10			5	10	25	X		1·15%	130		X	230
		53	3																		
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EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626192

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	
50602	364700N 373360	53	3	0·90	YLBR	80	10	10				55	80	95	0·5		6·90%	775	6	X	135
3	80	53	3	0·45	YLBR	70	10	20				40	30	75	0·5		10·0%	100	5	X	65
4	400	53	3	0·25	ORBR	60	20	20		CREEK		340	50	165	X		10·5%	1145	22	X	75
5	20	53	3	0·40	LTBR	70	10	20				40	110	130	X		2·65%	335	4	X	45
6	40	53	3	0·50	GNBR	70	10	20				60	30	80	1·5		5·15%	445	5	X	75
7	60	53	3	1·30	BR	80	10	10				100	40	150	X		7·00%	1115	31	X	70
8	80	53	3	0·45	GNBR	70	10	20				55	30	210	X		8·75%	1600	46	X	70
9	500	53	3	0·40	LTBR	70	10	20		CREEK		50	220	50	0·5		7600	110	3	11	125
10	20	53	3	0·90	YLBR	70	10	20				105	5	130	X		4·20%	445	5	X	30
11	40	53	3	0·40	LTBR	70	10	20				20	10	50	0·5		11·50%	115	2	X	65
12	60	53	3	0·80	YLBR	60	10	30				30	15	50	0·5		3·90%	210	11	X	130
13	80	53	3	0·70	LTBR	70	10	20				50	X	110	0·5		10·0%	2355	11	X	135
14	600	53	3	0·50	GNBR	70	10	20				10	X	170	1·0		4·30%	445	11	X	80
15	20	53	3	0·40	ORBR	70	10	20				10	5	90	0·5		8·55%	555	22	X	60
16	40	53	3	1·10	BRYLBR	80	10	10				140	15	110	1·0		13·0%	740	3	X	85
17	60	53 BCHOR	3	0·20	ORBR	70	10	20				70	25	130	1·0		10·5%	350	9	X	80
18	80	53 BCHOR	3	1·40	BR	90	5	5				125	35	120	0·5		3·10%	305	7	X	75
19	700	53	3	0·50	LTBR	70	10	20				25	20	50	1·0		9500	30	4	X	60
20	20	53	3	0·30	ORBR	70	10	20		CREEK		35	50	55	0·5		4·95%	35	9	1	55
21	40	53	3	0·50	ORBR	70	10	20				105	15	75	X		7·45%	95	6	X	55
22	60	53	3	0·45	ORBR	80	10	10				70	130	110	1·0		9·30%	140	28	X	35
23	80	53	3	0·50	ORBR	70	10	20				185	30	160	0·5		1·60%	680	11	X	65
24	800	53	3	0·45	BRGN	70	10	20				60	25	95	X		5·70%	65	13	X	65
25	20	53	3	0·60	ORBR	70	10	20				70	10	95	X		8·15%	80	15	X	80
26	40	53	3	0·40	ORBRGY	80	10	10				160	70	120	1·5		8·00%	4200	37	X	65
27	60	53 BCHOR	3	0·15	DKBR	70	10	20				50	60	90	1·5		6·05%	160	18	1	70
28	80	53	3	0·80	PLGNOR	80		20				30	50	35	1·0		3·75%	50	15	X	30
29	900	53	3	0·30	LTBR	70	10	20				70	15	80	1·0		5·35%	40	13	X	60
30	20	53	3	0·90	PLGN	80	10	10				110	260	130	1·5		4·60%	225	20	X	50
50631	373940	53	3	0·40	ORBR	70	10	20				14	310	120	1·0		10·0%	2200	45	X	40

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626193

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb - March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Easting	Grid Line No / AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50632	373960E	5313	3	0-80	ORBRGY	70	10	20				60	190	80	0.5		3.90%	125	3	1	35
33	80	5313	3	0-30	ORBR	70	10	20				120	15	180	0.5		1.25%	340	5	X	70
34	374000	5313	3	0-80	YLOR	60	10	30				45	15	115	1.0		11.0%	260	11	X	45
35	20	5313 BC HOR	3	0-10	BR	60	10	20	10			70	60	140	1.0		7.75%	340	9	X	155
36	40	5313	3	0-90	ORBR	70	10	20				115	10	190	1.0		13.0%	290	5	X	85
37	60	5313	3	0-40	ORBR	70	10	20				110	10	145	0.5		13.5%	295	6	X	45
38	80	5313	3	0-45	ORBR	70	10	20				90	20	240	1.0		10.5%	210	10	X	165
39	100	5313	3	0-30	ORBR	70	10	20				50	10	75	1.0		8.15%	80	5	X	150
40	20	5313	3	0-60	GNBR	70	10	20				80	25	100	1.0		5.55%	175	5	X	50
41	40	5313	3	0-30	BRGY	70	10	20		CREEK		100	25	180	X		0.15%	295	23	X	110
42	60	5313	3	0-60	ORBR	70	10	20				60	15	55	X		5.95%	180	15	X	75
43	80	5313	3	0-50	ORBR	70	10	20				25	10	115	1.0		3.75%	110	9	X	45
50644	200	5313	3	0-20	GYORBR	70	10	20				10	25	110	X		2.25%	110	10	X	30
45	20	5313	3	0-30	ORBR	70	10	20				270	20	130	X		19.5%	275	158	X	50
46	40	5313	3	0-50	LTBRGN	80	10	10				25	45	115	0.5		2.20%	150	13	X	75
47	60	5313	3	0-30	LTBR	70	10	20				80	40	100	X		5.15%	130	10	X	60
48	80	5313	3	0-40	ORBR	70	10	20		CREEK		75	100	140	X		6.55%	800	35	X	155
49	300	5313	3	0-50	BRGY	70	10	20				50	40	80	1.0		4.40%	300	9	X	75
50	20	5313	3	0-25	ORBR	70	10	20				80	50	70	X		7.75%	500	6	X	55
51	40	5313	3	0-30	LTBR	70	10	20				75	65	110	1.0		6.55%	210	13	X	140
52	60	5313	3	0-30	LTBR	60	10	30				30	115	100	X		6.35%	310	23	X	160
53	80	5313 BC HOR	3		BR	60	10	20	10			45	250	105	0.5		7.20%	2.10%	31	X	130
54	400	5313	3	0-15	YLBR	60	10	20	10			10	70	60	0.5		4.25%	1000	8	X	100
55	20	5313 B HOR	3	0-20	BR	60	10	20	10			10	65	70	X		3.85%	220	8	1	85
56	40	5313	3	0-15	BR	50	20	30				50	180	210	X		10.0%	1.60%	11	1	175
57	60	5313	3	0-30	LTBR	70	10	20				60	360	180	X		11.0%	2.15%	19	X	235
58	80	5313	3	0-30	BR	60	10	20	10			40	315	180	X		8.85%	610	19	X	175
59	500	5313	3	0-30	BR	60	10	20	10			40	160	180	1.0		9.30%	1000	9	X	190
60	20	5313	3	0-45	BRGN	70	10	20				60	95	95	X		4.70%	180	7	X	105
50661	374540	5313	3	0-40	LTBR	70	10	20				120	50	85	X		2.45%	65	4	X	160

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626194

Project : ML Black E.L 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50662	364700N / 374560E	5313	3	0-10	LTBR	60	10	30		ROAD		x	25	75	x		3.55%	385	15	x	155
63	580	5313	3	0-20	BR	60	10	20	10			x	15	50	x		4.75%	475	4	x	125
64	600	5313	3	0-60	BR	60	10	20	10			10	40	165	x		6.05%	420	4	1	80
65	620	5313	3	0-30	BR	60	10	20	10			15	375	205	1.0		6.20%	850	9	x	130
66	640	5313 BC HOR	3	0-15	BR	60	10	20	10			10	185	140	0.5		3.10%	690	8	x	50
67	660	5313 BC HOR	3		BR	60	10	20	10			5	205	130	x		4.55%	960	6	x	110
68	680	5313	3	0-30	LTBR	70	10	20				5	35	50	0.5		2.35%	1150	5	x	445
69	700	5313	3	0-20	BR	60	10	20	10			10	190	140	x		3.60%	1350	11	x	1100
70	720	5313 BC HOR	3	0-10	BR	60	10	20	10			20	130	50	0.5		8.00%	160	3	x	210
71	740	5313 BC HOR	3	0-20	BR	60	10	20	10			10	60	40	x		1.50%	220	6	1	230
50672	760	5313 BC HOR	3	0-10	BR	60	10	20	10			10	80	50	1.5		1.95%	415	10	1	240
73	780	5313	3	0-10	BR	60	10	20	10			50	70	60	x		1.80%	270	11	1	210
74	374800	5313 BC HOR	3	0-20	BR	60	10	20	10	CREEK		20	170	110	0.5		3.00%	2000	12	2	480
75	20	5313	3	0-20	BR	60	10	20	10	CREEK		20	160	120	x		3.10%	3650	14	x	540
76	40	5313	3	0-20	LTBR	70	10	20		CREEK		30	90	130	0.5		9.85%	3100	35	x	450
77	60	5313	3	0-20	LTBR	70	10	20				10	180	220	0.5		3.10%	2600	18	x	65
78	80	5313	3	0-20	LTGYBR	70	10	20				15	195	250	0.5		2.95%	3100	21	x	55
79	900	5313	3	0-50	LTBR	70	10	20				15	150	360	0.5		3.75%	1600	33	x	90
80	20	5313	3	0-40	BR	70	10	20				20	170	250	1.0		4.35%	930	42	x	105
81	40	5313	3	0-30	LTBR	70	10	20				20	145	420	x		3.20%	2600	39	x	70
82	60	5313	3	0-20	LTYLBR	70	10	20				15	180	455	0.5		3.85%	1450	31	x	65
83	80	5313 BC HOR	3	0-20	BR	60	10	20	10			10	65	55	x		2.55%	100	17	1	20
84	375000	5313	3	0-20	BR	60	10	20	10			5	70	65	x		3.45%	120	9	1	20
85	20	5313	3	0-30	BR	60	10	20	10			5	55	45	x		1.15%	60	5	x	20
86	40	5313	3	0-20	BR	60	10	20	10			35	150	105	x		4.80%	640	22	3	75
87	60	5313 HOR	3	0-10	BR	60	10	20	10	CREEK		25	150	110	x		3.10%	560	15	x	30
88	80	5313 HOR	3	0-15	BR	60	10	20	10	CREEK		20	180	220	0.5		3.00%	7250	23	x	30
89	100	5313 BC HOR	3	0-20	BR	60	10	20	10			25	135	200	0.5		3.30%	2450	23	1	45
90	20	5313 BC HOR	3	0-20	BR	60	10	20	10			20	50	85	0.5		2.50%	1435	13	x	130
50691	375140	5313 BC HOR	3	0-20	BR	60	10	20	10			25	60	95	0.5		3.30%	890	20	x	50

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626195

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mathinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No (3C 4 7 0 N)	Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50693		375160E	5313C HC	3	0-20	BR	60	10	20	10			25	50	75	0·5		2·60%	195	10	1	30
93		80	5313	3	0-20	LTBR	70	10	20				15	35	55	0·5		2·85%	265	13	X	40
94		300	5313	3	0-25	LTBR	70	10	20				15	40	40	X		3·15%	115	19	X	20
95		60	5313	3	0-20	LTBR	70	10	20				5	30	15	X		1·40%	35	7	1	10
96		40	5313 HOR	3	0-15	BR	60	10	20	10			X	5	20	X		6600	110	4	X	X
97		60	5313	3	0-30	BR	60	10	30	10			5	10	20	X		1500	30	5	X	X
98		80	5313	3	0-15	LTBR	60	10	20	10			X	20	15	X		5950	40	2	1	X
99		300	5313	3	1-00	LTBR	70	10	20				5	25	35	X		1·40%	95	7	1	5
50700	375330		5313BC HOR	3	0-20	BR	60	10	20	10	RIVER		10	50	30	X		1·10%	75	14	X	5
1		40	5313	3	0-30	BR	70	10	20				5	50	30	X		1·05%	60	15	X	10
2		60	5313	3	0-20	LTBR	70	10	30				X	35	25	0·5		3350	35	13	X	10
3		80	5313 BC HOR	3	0-15	LTBR	70	10	20				X	30	15	X		1900	25	6	X	5
4		400	5313	3	0-40	LTBR	70	10	20				5	5	15	X		5950	30	5	X	5
5		20	5313	3	0-50	LTBR	70	10	20				10	145	65	X		3·30%	95	35	X	20
6		40	5313	3	0-30	LTBR	60	10	20	10			5	75	30	X		4300	55	8	X	10
7		60	5313BC HOR	3		LTBR	60	10	20	10			5	85	30	X		2550	30	6	X	5
8		80	5313BC HOR	3	0-20	BR	60	10	20	10			X	90	20	X		2400	15	6	X	5
9		500	5313BC HOR	3	0-20	LTBR	60	10	20	10			X	100	25	X		2400	15	6	1	5
10		20	5313	3	0-60	LTBR	70	10	20				X	120	25	X		1·00%	35	19	X	10
11		40	5313	3	0-20	BR	70	10	20				5	110	25	X		2350	15	6	1	5
12		60	5313BC HOR	3	0-20	LTBR	60	10	20	10			5	110	15	X		2350	15	7	X	10
13		80	5313	3	0-25	BR	60	10	20	10			5	120	20	X		3350	15	4	X	5
14		600	5313	3	0-20	BR	60	10	30	10			10	85	20	X		3700	20	5	X	5
50615	375620		5313BC HOR	3	0-20	BR	60	10	20	10	ROAD		15	130	45	X		4000	35	5	1	5
			5313	3																		
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EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626196

Project : Mt Black E.L 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mathiesen Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Amlabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No (2 6 4 5 0 0 N) / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu ✓	Pb /	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50716	37360	513	3	0·55	GRBR	70	10	20				75	20	105	0·5		5·45%	1350	6	X	40
17	40	513	3	0·45	ORBR	80	10	10				45	35	50	X		7·20%	420	12	1	45
18	60	513	3	0·30	ORBR	70	10	20				65	70	105	X		8·10%	1145	17	X	65
19	80	513 B HORZ		0·20	BR	60	10	20	10			35	25	75	X		4·00%	1150	17	11	55
20	5100	513 BC HORZ		0·20	BR	80	10	10				25	60	85	X		6·95%	1345	8	6	70
21	20	513	3	0·25	BROR	70	10	20				15	5	60	X		6·45%	995	11	X	50
22	40	513	3	0·45	PLGNOR	70	10	20				20	5	55	X		4·65%	770	5	X	35
23	60	513	3	0·35	ORBR	70	10	20				15	15	105	X		8·05%	815	4	X	150
24	80	513	3	0·50	ORBR	80	10	10				25	25	45	X		4·80%	1345	111	X	40
25	600	513	3	1·50	BR	80	10	10				205	100	175	X		10·00%	3445	24	X	60
26	20	513	3	0·45	BRGN	70	10	20				110	30	85	X		5·30%	665	113	X	45
27	40	513	3	1·00	ORBR	70	10	20				245	75	1185	X		17·5%	1185	39	X	60
28	60	513	3	1·10	BRGN	70	10	20				285	120	345	X		13·5%	3850	36	X	50
29	80	513	3	0·30	BR	70	10	20		CREEK		55	65	140	0·5		4·70%	1655	28	X	135
50730	373700	513	3	0·40	BRGY	70	10	20				105	125	160	0·5		1·75%	550	12	X	45
31	20	513 B HORZ		0·30	BR	70	10	20		CREEK		45	65	325	X		10·0%	7665	34	3	550
32	40	513 ABHORZ		0·10	BR	60	10	20	10	CREEK		15	105	175	X		6·60%	1·40%	19	X	660
33	60	513	3	0·25	BR	70	10	20				15	85	120	1·5		5·05%	4300	16	X	400
34	80	513BCHORZ		0·40	BR	70	10	20				35	70	135	X		10·0%	815	26	X	530
35	800	513	3	0·30	BR	70	10	20				40	70	205	X		7·35%	665	24	X	360
36	20	513BCHORZ		0·40	BR	70	10	20				20	70	125	0·5		6·55%	960	17	X	220
37	40	513	3	0·30	BR	70	10	20				10	85	115	X		11·5%	595	17	X	45
38	60	513 B HORZ		0·10	BR	60	10	10	20			10	100	120	X		4·85%	615	26	X	350
39	80	513	3	0·25	BR	60	10	20	10			15	110	125	X		4·85%	375	27	X	485
40	900	513	3	0·15	BR	50	20	10	20			15	100	195	0·5		5·20%	1250	10	X	1400
41	20	BCHORZ		0·25	BR	60	10	20	10			30	170	410	X		6·80%	7600	30	X	9100
42	40	513B HORZ		0·15	ORBR	60	10	20	10			50	380	605	X		14·5%	2·45%	72	111	15%
43	60	513B HORZ		0·15	BR	60	10	20	10			10	45	600	X		9·00%	7750	9	X	1600
44	80	513	3	1·50	GNBR	80	10	10				80	155	960	X		10·0%	1350	15	X	4150
50745	374000	513	3	0·30	BR	70	10	20				25	125	185	X		6·65%	650	6	X	1800

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626197

Project : ML Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	As	Au	Fe %	Mn	As	Sn	Cr
50746	3645000N	374020E	53	3	0·45	YLORBR	70	20	10				20	15	90	X		3·90%	1350	14	X	855
47		040	53	3	0·80	LTBR	70	10	20				65	60	285	X		8·65%	4650	19	X	2310
48		060	53	3	0·20	ORBRGN	60	20	10	10			30	50	135	X		4·40%	2950	6	X	465
49		080	53	3	0·15	LTBR	60	10	20	10			10	40	65	X		1·55%	875	2	X	550
50		100	53	BCHORZ	0·30	ORBR	60	10	20	10			5	30	50	X		2·95%	780	1	X	300
51		20	53	3	0·40	BR	70	10	20				5	25	45	X		1·05%	550	1	X	275
52		40	53	3	0·40	GNBRORZ	70	10	20				55	5	55	X		7·55%	3350	17	X	85
53		60	53	3	0·30	LTBR	70	10	20				20	25	95	X		6·35%	3550		X	115
54		80	53	3	0·40	GNBRORZ	70	10	20				125	30	80	X		6·15%	10550	11	X	115
55		200	53	3	0·20	BR	60	10	20	10			25	35	70	X		3·90%	2415	5	X	110
56		220	53	3	0·85	ORBR	70	10	20				80	5	125	X		10·5%	3450	12	X	45
50757	3744240		53	3	0·30	LTBR	70	10	20				35	15	85	X		7·50%	5450	13	X	80
58		260	53	3	0·40	GNBRORZ	70	10	20				40	30	65	X		4·65%	2050	10	X	85
59		280	53	3	0·40	ORBR	70	10	20				25	10	50	X		4·25%	1750	4	X	65
60		300	53	3	0·20	ORBR	70	10	20				25	25	60	X		5·05%	2650	13	X	130
61		320	53	3	0·30	BR	70	10	20				30	35	65	X		5·50%	2450	12	X	95
62		340	53	BCHORZ	0·20	ORBR	60	10	20	10			30	45	85	X		9·95%	1950	8	X	100
63		360	53	3	0·40	ORBR	70	10	20				65	45	105	0·5		10·5%	4350	12	X	100
64		380	53	3	0·30	ORBR	70	10	20				40	50	85	0·5		8·65%	10000	7	X	125
65		400	53	3	0·50	ORBR	70	10	20				90	85	95	0·5		10·0%	25000	25	X	130
66		420	53	BHORZ	0·20	BR	70	10	20		CREEK		65	360	100	1·5		8·00%	9200	40	X	160
67		440	53	3	0·25	BR	70	10	20				40	180	45	0·5		4·75%	2750	18	X	65
68		460	53	3	0·25	ORBR	70	10	10	10			85	105	60	0·5		5·55%	4350	14	11	115
69		480	53	3	0·25	BRORZ	70	10	20				35	170	200	0·5		5·70%	16050	5	11	470
70		500	53	3	0·30	GNBR	70	10	20				75	130	75	5·0		7·15%	4250	6	X	440
71		520	53	BHORZ	0·15	BR	60	10	20	10			75	80	110	1·0		3·60%	1750	4	X	640
72		540	53	BCHORZ	0·15	YLBR	60	10	10	20			30	140	125	0·5		7·25%	17500	4	X	350
73		560	53	BCHORZ	0·30	BR	60	10	20	10			15	45	70	X		6·35%	3650	1	X	220
74		580	53	3	0·65	GYORBR	60	20	10	10			65	95	165	0·5		6·10%	11150	12	X	480
50775	3746600		53	3	0·40	ORBR	60	10	20	10			35	90	125	0·5		3·45%	19000	1	X	1000

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626198

Project : Mt. Black E.L. 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinsen Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
	364500N																				
50776	374020E	53	3	0·30	BRGY	50	20	30				110	50	55	0·5		1·05%	200	1	x	105
77	40	53	3	0·30	LTBR	70	10	20				110	45	95	x		1·50%	765	x	1	35
78	60	53 AB HOR	2	0·10	BR	40	10	10	40			120	160	110	x		7·80%	3450	8	2	2+0
79	80	53 BC HOR	2	0·10	DKBR	60	10	20	10			145	95	130	x		3·95%	2850	2	x	170
80	700	53	3	0·30	LTGYBR	70	10	20		CREEK		115	140	175	x		3·65%	2230	11	x	55
81	20	53	3	1·00	BR	70	10	20				65	160	150	1·5		7·75%	5450	15	x	125
82	40	53	3	0·30	GYORBR	80	10	10				15	70	100	x		3·90%	80	20	x	60
83	60	53 BC HOR	2	0·10	BR	60	10	20	10			10	55	35	x		1·50%	555	3	x	255
84	80	53	3	0·15	ORGY	70	10	20				35	145	140	x		5·25%	2220	13	x	1150
85	800	53	3	0·30	ORBRGY	70	10	20				25	150	170	x		3·90%	3110	24	x	100
86	120	53 BC HOR	2	0·10	ORBRGY	70	10	20		CREEK		15	100	65	x		2·30%	2555	8	x	45
50787	40	53	3	0·40	LTBR	70	10	20				35	105	80	x		4·85%	5655	76	x	255
88	60	53	3	0·20	BR	60	20	15	5			15	155	85	0·5		2·70%	7455	61	x	120
89	80	53	3	1·00	LTBR	70	10	20				15	120	105	x		3·05%	5055	8	x	45
90	900	53 B HOR	2	0·25	BR	60	10	20	10			20	120	200	x		2·85%	9955	4	1	65
91	20	53 BC HOR	2	0·10	BR	60	10	20	10			25	205	145	x		3·75%	25550	8	2	55
92	40	53	3	0·15	YLBR	70	10	10	10			15	85	80	x		2·75%	3355	4	x	70
93	60	53	3	0·30	BR	70	10	20				15	60	35	x		3·00%	80	9	2	50
94	80	53	3	0·15	BRGY	60	10	20	10			30	90	85	x		3·85%	2200	7	x	70
95	375000	53	3	1·20	GYGU	70	10	20				20	65	110	x		2·75%	345	5	x	65
96	020	53	3	0·45	ORBR	70	10	20		CREEK		10	50	40	x		3·75%	1350	4	x	10
97	040	53	3	0·30	ORBR	70	10	20				5	65	35	x		2·85%	315	4	x	10
98	060	53	3	0·45	GYORYL	80	10	10				5	40	35	x		1·85%	55	2	x	15
99	080	53 B HOR	2	0·30	BR	60	10	20	10			10	80	40	x		2·75%	250	9	1	15
50800	375100	53 BC HOR	2	0·10	DKBR	60	10	10	20			15	100	60	x		1·60%	100	10	2	35
		53																			
		53																			
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		53																			
		53																			

EZ Co of E Asia Ltd
Prospecting Ltd

GEOCHEMICAL SAMPLE DATA SHEET

626199

Project : ....
Locality : ....
Grid Name : ....
Nominal Grid Azimuth : ....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : ....
Date : ....

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm. unless specified): Cu ✓	Pb ✓	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
498 01	3740	00E	5313	3	0-45	LT BR GY	70	10	20				15	470	5	3·5		2·50%	5	38	X	145
02		20	5313	3	0-25	LT BR	80	10	10		ROAD		40	60	20	X		1·45%	15	10	X	75
03		60	5313	3	1-30	LT BR	70	10	20				1150	215	340	1·0		4·80%	195	67	X	65
04		80	5313	3	0-45	GN BR OR	60	20	20				220	600	210	2·0		10·00%	285	150	X	85
05		100	5313	3	0-30	OR BR	70	10	20				105	515	110	1·0		7·00%	605	94	X	75
06		120	5313	3	0-30	OR BR	70	10	20				130	620	120	4·0		6·50%	540	170	1	65
07		140	5313	3	0-20	BR	70	10	20				70	560	85	2·5		4·35%	1000	160	2	55
08		160	5313	3	0-35	BR	80	10	10				110	1300	85	25		5·60%	5300	210	2	65
09		180	5313	3 BC HOR	0-20	BR	70	10	20		CREEK		60	355	45	0·5		5·10%	2100	68	X	75
110		2001	5313	3	0-30	GY BR	70	10	20		CREEK		15	45	20	1·5		2·00%	110	41	X	35
111		220	5313	3 BC HOR	0-20	DK BR	60	10	20		CREEK		30	170	20	1·5		2·00%	105	53	X	35
12		240	5313	3	0-30	BR GY	70	10	20		CREEK		10	25	X	X		1·00%	20	16	X	25
13		260	5313	3	0-50	LT GY	70	10	20				10	15	5	1·5		1·05%	20	4	X	25
14		280	5313	3	0-50	GY OR BR	70	10	20				10	35	5	1·10		2·30%	20	15	X	20
498 15		300	5313	3	0-40	GY OR BR	70	10	20				15	80	5	1·5		1·25%	15	18	X	25
16		320	5313	3	0-15	WH BR	60	20	20				10	10	X	0·5		30·50	10	1	1	30
17		340	5313	3	1-05	OR YL	70	10	20				40	5	X	1·0		3·00%	45	28	X	55
18		360	5313	3	0-40	OR YL GY	70	10	20				15	15	X	X		1·65%	5	10	X	30
19		380	5313	3	0-30	BR	70	10	20				5	115	X	X		18·50	5	X	X	20
20		400	5313	3	0-20	LT BR	50	10	30	10			5	120	10	X		28·50	5	X	X	15
21		420	5313	3	0-30	GY BR	70	10	20				5	15	X	X		26·50	X	X	X	35
22		440	5313	3	0-30	GY BL	50	20	30				5	X	X	X		15·00	X	X	X	25
23		460	5313	3	0-30	LT GY OR	70	10	20				5	15	X	10·5		45·50	X	X	X	25
24		480	5313	3	0-40	BR	70	10	20				15	40	X	0·5		1·75%	15	12	X	30
25		500	5313	3	0-30	LT BR	70	10	20				5	115	X	X		24·00	15	X	X	35
26		520	5313	3	0-20	BR	60	10	30				20	150	10	X		3·30%	10	35	X	40
27		540	5313	3	0-45	LT GY OR	70	10	20				10	25	X	X		1·65%	10	17	X	30
28		560	5313	3	0-30	LT BR	50	20	30				10	30	X	0·5		37·50	10	7	X	30
29		580	5313	3 BC HOR	0-20	BR	10	10	20	60			10	175	40	0·5		189·50	25	4	X	25
498 30	3740	600	5313	3 BC HOR	0-15	BR	50	10	30	10			30	130	45	1·0		1·65%	25	10	X	25

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626200

Project : .....
Locality : .....
Grid Name : .....
Nominal Grid Azimuth : .....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : .....
Date : .....

Size Fraction Analysed : -80#
Analysed By : Amdel
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 3665 0 CN / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu ✓	Pb ✓	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49831	374620E	53	BC HOR	2	0·10	BR	50	30	20				20	65	35	1·0		1·95%	145	16	1		45
32		640	53	BC HOR	2	0·25	ORTR	80	10	10		COTEAU		30	60	20	1·0		3·00%	175	32		X	55
33		660	53		3	0·30	ORBR	70	10	20				90	60	175	1·0		7·20%	1180	49		X	115
34		680	53	B HOR	2	0·45	ORBR	80	10	10				180	90	140	2·5		8·50%	2250	28		1	95
35		700	53	B HOR	2	0·15	BR	60	10	20	10	MINE		240	250	300	4·0		18·5%	3·45%	80		1	235
36		720	53	B HOR	2	0·25	ORBR	70	10	20		MINE		140	120	240	1·0		10·0%	4600	12		X	140
37		740	53		3	0·40	ORBR	70	10	20				200	610	400	X		12·5%	2100	16		1	65
38		760	53	BC HOR	2	0·30	ORBR	70	10	20		CREEK		140	140	100	1·5		6·35%	2600	36		X	55
39		780	53	B HOR	2	0·20	BR	60	10	20	10			240	110	140	0·5		10·0%	5600	17		X	75
40		800	53	BC HOR	2	0·20	ORBR	70	10	20				110	70	75	1·5		6·95%	6500	9		X	55
41		820	53		3	0·30	LTBR	70	10	20				65	35	40	1·0		4·45%	2100	13		X	35
42		840	53		3	0·50	YLOR	80	10	10				120	65	65	0·5		7·40%	1900	15		X	55
43		860	53		3	0·30	LTBR	70	10	20				25	25	30	1·0		2·50%	3300	13		1	25
44		880	53	BC HOR	2	0·25	ORBR	60	10	30				105	55	110	X		7·20%	4900	13		X	45
49845	374900	53		3	0·40	ORBR	70	10	20				265	60	110	X		9·60%	6950	27		X	70
46		920	53	BC HOR	2	0·30	ORBR	70	10	20		ADIT		170	20	60	X		7·70%	12500	14		1	55
47		940	53		3	0·70	ORBR	70	10	20				50	20	130	X		8·75%	1450	2		X	70
48		960	53		3	0·15	WHBR	70	10	20				10	10	10	X		5500	150	X		X	55
49		980	53		3	0·30	BR	70	10	20				15	X	45	X		6·35%	1050	X		X	60
50	375000	53	B HOR	2	0·20	ORBR	70	10	20				5	90	85	0·5		6·60%	1155	4		X	70
51	20	53		3	0·30	LTBR	70	10	20				15	15	45	X		5·05%	950	X		X	60
52	40	53	BC HOR	2	0·20	ORBR	70	10	20				45	50	100	X		7·80%	5750	13		1	90
53	60	53		3	1·00	ORBR	70	10	20				30	150	110	1·0		5·10%	5300	28		X	60
54	80	53	BC HOR	2	0·10	ORBR	80	15	5		RIVER		25	350	175	0·5		2·90%	4250	32		X	50
55	100	53		3	0·20	LTBR	70	10	20				30	90	90	0·5		4·05%	2100	20		11	60
56	120	53	BC HOR	2	0·10	DKBR	60	30	10				35	130	190	X		4·10%	4000	11		X	55
57	140	53	B HOR	2	0·20	BR	60	10	20	10	RIVER		35	490	1200	0·5		6·25%	1·05%	52		1	55
58	160	53	B HOR	2	0·10	BR	50	10	30	10			25	95	90	0·5		4·65%	2000	17		X	45
59	180	53	B HOR	2	0·20	BR	60	10	20	10			30	70	105	0·5		4·20%	9100	18		X	60
49860	375200	53	BC HOR	2	0·15		60	10	10	20			50	115	145	X		2·75%	3650	12		X	55

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626201

Project : .....
Locality : A.....
Grid Name : .....
Nominal Grid Azimuth : .....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : .....
Date : .....

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology
49861	36500N	37520E	5338C HORIZ		0-25	DKBR OR	60	10	20	10		
62		2540	533	3	0-15	ORBR	70	10	20		CREEK	
63		2560	533B HORIZ	2	0-15	BR	60	10	20	10		
64		2580	533BC HORIZ	2	0-40	ORBR	70	10	20			
65		3000	533B HORIZ	2	0-25	DKBR	60	10	20	10		
66		3220	533BC HORIZ	2	0-25	ORBR	80	10	10			
67		3440	533	3	0-60	ORBR	70	10	20			
68		3660	533BC HORIZ	2	0-15	ORBR	70	10	20			
69		3880	533	3	0-20	LTBR	70	10	20			
70		4100	533BC HORIZ	2	0-30	LTBR OR	70	10	20			
71		4320	533	3	0-35	BR	70	10	20			
72		4540	533BC HORIZ	2	0-10		60	10	20	10		
73		4760	533BC HORIZ	2	0-15	BR OR	60	10	20	10		
74		4980	533BC HORIZ	2		ORBR	60	10	20	10	CREEK	
75		5200	533	3	0-15	BR	70	10	20			
49876	37552O		533BC HORIZ	2	0-10	LTBR	60	10	20	10		
77		5540	533B HORIZ	2	0-10	YLBR	60	10	20	10		
78		5760	533	3	0-20	YLBR	80	10	10			
79		5980	533	3	0-20	YLBR	70	10	20			
80		6200	533	3	0-25	YLBR	80	10	10			
81		6420	533	3	0-15	YLBR	70	10	20			
82		6640	533	3	0-30	YLBR	70	10	20			
83		6860	533	3	0-10	LTBR	70	10	20			
84		7080	533	3	0-40	ORBR	80	10	10			
85		7300	533	3	0-25	ORBR	70	10	20			
86		7520	533	3	0-30	YLBR	80	10	10			
87		7740	533BC HORIZ	2	0-15	LTBR	70	10	20			
88		7960	533	3	0-30	YLBR	70	10	20			
89		8180	533	3	0-30	GYBR	70	10	20			
49890	37580O		533		0-30	ORBR	70	10	20			

SAMPLE NUMBER	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49861	20	45	45	X		3.55%	420	7	1	40
62	55	85	60	1.0		4.80%	685	30	1	45
63	15	80	60	X		4.10%	385	9	X	80
64	45	30	70	0.5		5.70%	5600	10	1	30
65	20	90	75	X		6.45%	1.15%	15	X	20
66	10	70	40	1.0		2.85%	630	24	2	30
67	70	230	350	1.0		5.50%	3600	61	2	65
68	10	75	65	X		2.80%	460	18	X	45
69	10	35	35	X		3.85%	580	17	X	30
70	15	40	30	X		2.45%	9.5	14	1	30
71	10	85	50	0.5		2.90%	9.5	19	X	65
72	20	115	50	1.0		2.55%	115	20	X	55
73	10	55	40	X		1.45%	110	14	2	30
74	35	280	230	0.5		7.15%	6600	45	1	65
75	25	515	170	0.5		4.30%	1150	82	2	40
49876	10	60	25	0.5		54.50	80	6	X	40
77	25	200	115	0.5		3.65%	2450	48	1	100
78	30	170	110	0.5		4.55%	840	49	1	140
79	25	210	115	1.5		3.50%	585	44	1	170
80	20	145	90	0.5		2.00%	470	34	X	135
81	10	150	90	X		3.80%	510	29	1	60
82	20	170	100	0.5		4.50%	1850	61	X	105
83	15	190	100	1.0		4.80%	4950	49	X	140
84	35	300	145	0.5		9.10%	5350	83	X	165
85	30	90	80	0.5		4.05%	1200	43	1	85
86	20	230	80	1.0		5.00%	9500	54	1	70
87	20	115	85	1.0		3.80%	5550	45	1	75
88	20	150	80	X		4.80%	1150	46	X	80
89	15	150	80	0.5		4.95%	3000	51	X	85
49890	30	75	60	X		5.60%	1100	50	X	105

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626202

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mattinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -20#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 366500N; Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	U
49891	375820E	53	3	0·50	ORBR	70	10	20				50	100	440	0·5		8·70%	630	34	x	35
92	840	53	3	0·50	BRGN	80	10	10				110	115	65	x		3·60%	225	26	x	60
93	860	53	3	0·50	ORBR	70	10	20				25	60	180	1·0		7·70%	480	31	11	300
94	880	53	3	0·60	ORBR	85	10	5				15	30	125	x		8·25%	480	25	12	135
95	900	53	3	0·30	BR	70	10	20				15	50	30	x		2·30%	70	4	x	20
96	920	53	3	0·40	YLGNOR	70	20	10				40	35	210	x		1·45%	720	15	1	35
97	940	53	3	0·60	ORBR	70	10	20				20	35	90	x		4·25%	260	4	x	40
98	960	53	3	0·30	BRGN	80	10	10				25	30	90	0·5		5·15%	290	3	x	175
99	980	53	3	0·30	LTBR	70	10	20				5	70	55	x		4·25%	260	4	x	40
49900	376000	53	3	0·90	LTBRYL	80	15	5				15	80	80	0·5		3·40%	375	11	11	40
	20	53	3	0·20	BR	60	10	20	10			30	215	230	0·5		3·25%	320	17	11	175
2	40	53	3	0·15	LTBRYL	80	10	10				x	90	30	1·0		1·25%	80	26	x	20
3	60	53	BC HORZ	0·15	BR	60	10	20	10			x	90	60	x		1·65	50	235	19	x	10
4	80	53	3	0·55	ORBR	85	10	5				90	605	700	3·5		4·20%	5600	40	11	15
5	100	53	BC HORZ	0·60	BR	60	10	20	10			75	1350	160	3·5		3·65%	11·20%	72	12	10
6	120	53	BC HORZ	0·40	DKBROR	70	10	10	10			25	645	80	0·5		6·35%	1·05%	1130	12	5
7	140	53	3	1·20	BROR	80	10	10				50	3550	140	2·0		4·85%	1·35%	1150	x	5
8	160	53	3	0·25	LTBRYL	50	20	30				x	100	10	x		1950	70	13	x	x
9	180	53	3	0·60	ORBR	70	10	20				x	195	25	0·5		1·70%	90	120	x	x
10	200	53	B HORZ	0·10		50	10	20	20			x	160	40	1·5		1650	115	9	x	5
11	220	53	3	0·10	LTBR	60	10	20	10			x	130	20	0·5		850	45	1	x	5
12	240	53	3	0·15	LTBR	60	10	30				x	105	10	1·5		700	35	x	x	5
13	260	53	3	0·15	LTBR	60	10	20	10			x	160	10	x		850	30		11	x
14	280	53	BC HORZ	0·10	LTBR	60	10	20	10			x	85	15	1·0		450	20	x	11	x
15	300	53	3	0·15	LTBR	60	10	20	10			x	180	60	0·5		1450	60	11	x	x
16	320	53	3	0·15	LTBR	60	10	30				x	85	25	x		700	30	1	x	5
17	340	53	3	0·20	LTBR	60	10	20	10			10	310	75	x		1700	80	11	x	x
18	360	53	3	0·20	LTBR	50	10	30	10			5	230	50	x		2750	115	5	x	5
19	380	53	BC HORZ	0·10	BR	60	10	20	10			x	180	30	0·5		1450	70	1	x	x
49920	376400	53	BC HORZ	0·10	BR	60	10	20	10			x	110	20	0·5		1400	55	1	x	x

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626203

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 366500N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49921	376420E	53	31	0-10	DKBR	50	10	10	30			85	345	160	1·0		3·50	1000	3	X	X
22	440	53	31	0-20	LTBRGY	60	10	20	10			10	110	30	0·5		11·50	155	1	X	X
23	460	53	31	0-20	WH	60	10	30				20	205	40	0·5		33·00	110	3	X	X
24	480	53	31	0-25	LTBR	60	10	30	10			5	90	20	0·5		19·00	80	1	X	X
49925	376500	53	31	0-15	LTBR	60	10	20	10			X	30	30	0·5		26·50	50	1	X	X

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626204

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mollinson Contractors
Date : Feb-March 1988

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu /	Pb /	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49926	375460E	53	3 HORZ	0·30	BR	60	10	30		RIVER		15	70	65	x		3·00%	2400	27	x	50
27	+40	53	3 HORZ	0·20	BR	70	10	20				5	35	20	x		1·10%	400	3	x	10
28	+20	53	3	0·20	WHOR	80	10	10				x	x	5	x		37.50	30	x	x	5
29	400	53	3 HORZ	0·40	BR	70	10	20				35	40	70	x		4·50%	8100	21	x	95
30	380	53	3	0·30	ORBR	80	10	10				5	15	30	x		3·80%	2555	6	x	85
31	360	53	3	1·00	LTBR	70	10	20				45	25	60	x		4·60%	1000	11	x	35
32	340	53	3	1·00		70	10	20				10	30	10	x		1·40%	175	11	x	15
33	320	53	3	1·20	ORBR	70	10	20		TRACK		25	180	15	11·0		2·50%	220	21	x	10
34	300	53	3	0·25	BRRD	60	10	20	10			x	25	15	0·5		6·35%	220	5	11	15
35	280	53	3	0·30	ORBR	70	10	20				5	115	85	x		6·75%	1000	7	11	15
36	260	53	3 BCHORZ	0·20	BR	80	10	10				15	115	55	x		2·70%	9100	10	x	15
37	240	53	3 BCHORZ	0·30	ORBR	60	10	20	10			10	30	35	x		4·25%	2155	8	x	20
49938	375220	53	3	0·30	ORYL	70	10	20				x	30	10	x		1·30%	775	4	11	10
39	200	53	3 BCHORZ	0·30	BR	60	10	20	10			20	60	80	0·5		5·80%	1900	14	x	10
40	180	53	3	0·30	ORBR	70	10	20				40	65	55	0·5		5·40%	17000	13	1	30
41	160	53	3	0·20	BR	70	10	20				90	70	65	x		5·60%	31000	10	x	130
42	140	53	3		BR	70	20	10		CREEK		20	165	170	x		3·60%	4600	22	x	40
43	120	53	3	0·25	ORBR	70	10	20				15	40	80	0·5		9·80%	1300	13	x	70
44	100	53	3	0·30	ORBR	70	10	20				70	70	55	x		9·20%	2300	17	x	55
45	080	53	3	0·25	BR	70	10	20				90	85	70	x		8·85%	3850	15	x	50
46	060	53	3 BCHORZ	0·25	ORBR	70	10	20				135	80	75	0·5		9·40%	970	22	x	60
47	040	53	3	0·30	BR	70	10	20				135	75	55	11·0		7·20%	230	16	x	65
48	020	53	3	0·25	ORBR	70	10	20				80	50	40	x		6·20%	180	10	x	60
49	375000	53	3	1·20	ORBR	70	10	20				20	10	25	0·5		3·60%	50	8	x	120
50	374980	53	3	0·30	BROR	70	10	20				20	15	70	x		9·80%	100	5	x	50
51	960	53	3 BCHORZ	0·20	ORBR	60	10	20	10			165	80	165	x		7·60%	455	14	x	130
52	940	53	3 BCHORZ	0·30		70	10	20				50	70	105	x		7·30%	1640	14	x	65
53	920	53	3	0·30		70	10	20				155	45	170	0·5		10·0%	950	18	x	75
54	900	53	3	0·25	ORBR	70	10	20				80	45	130	x		10·0%	3500	6	x	65
49955	374880	53	3	0·30		70	10	20				95	40	75	0·5		5·15%	900	12	x	60

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626205

Project : Mt. Black E.L. 1/62
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 3660N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
49956	374800E	53	3	0-15	CRBR	70	10	20				120	75	140	X		9.40%	3750	14	1	65
57	840	53	3	0-20	ORBR	70	10	20				80	90	110	0.5		8.80%	4300	11	X	45
58	820	53	3	0-30	BR	50	20	30		CREEK		155	90	210	X		10.0%	2.15%	14	X	75
59	800	53	3	0-20	BR	60	10	20	10	CREEK		50	100	50	X		4.35%	1150	11	1	35
60	780	53	3	0-45	BR	60	10	20	10			210	185	190	0.5		10.0%	6900	5	X	65
61	760	53	3	0-20	BR	60	10	20	10			60	180	100	0.5		6.85%	1.20%	25	X	45
62	740	53	3	0-25	ORBR	70	10	20				105	150	200	0.5		8.35%	500	12	X	140
63	720	53	3	0-50	ORBR	70	10	20				100	160	240	X		6.70%	220	10	X	65
64	700	53	3	0-45	ORBR	80	10	10				90	30	40	X		8.75%	190	20	X	50
65	680	53	3	0-30	LTBR	60	10	20	10			50	20	60	X		10.5%	1.85	18	X	45
66	660	53	3	0-45	ORBRYL	80	10	10				75	45	70	0.5		10.0%	6800	30	X	55
67	640	53	3	0-60	ORBR	70	10	20				20	85	115	0.5		2.80%	220	10	X	110
68	620	53	3	0-15	LTBRGY	60	10	30				X	115	110	0.5		2.85%	1100	11	1	110
49969	374600	53	3	0-60	ORBRGY	70	10	20				110	95	15	0.5		2.05%	1100	110	X	110
70	580	53	3	0-45	LTBLGY	70	10	20				X	35	20	X		1.75%	1150	22	X	15
71	560	53	3	BC	HORZ	60	10	20	10			X	10	X	X		1.55%	1100	11	X	5
72	540	53	3			70	10	20				X	20	5	1.0		3150	1100	12	X	5
73	520	53	3	BC		30		30	40			X	5	10	X		2500	320	13	X	15
74	500	53	3			60	10	30				X	10	10	1.0		3650	15	12	1	10
75	480	53	3	ABHORZ		20	20	20	40			X	15	20	1.0		1600	10	12	1	5
76	460	53	3			70	10	20				X	15	5	X		2050	10	12	1	10
77	440	53	3			70	10	20				X	35	5	1.0		9200	X	9	X	5
78	420	53	3			80	10	10				X	35	10	1.0		2.00%	15	13	X	10
79	400	53	3			60	10	20	10			X	15	10	X		850	5	11	X	5
80	380	53	3			60	10	30				5	10	5	X		6000	20	14	X	10
81	360			BC	HORZ	60	10	20	10			X	10	10	X		2750	15	12	X	10
82	340	53	3	BC	HORZ	60	10	20	10			X	30	20	X		4400	55	22	1	10
83	320	53	3			70	10	20				X	10	10	X		1450	15	11	1	10
84	300	53	3			70	10	20				X	10	X	X		2400	10	12	1	10
49985	374280	53	3			70	10	20				X	10	X	1.0		5350	10	15	1	20

EZ Co of A'Asia Ltd
Rosebery Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626206

Project : ML Black E.L 1/82
Locality : Natone
Grid Name : Natone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mallinson Centreloss
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Amdaba
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No	AMG CO-ORDINATES: Grid Easting	NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm. unless specified): Cu ✓	Pb ✓	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
4998	36	3740	5300N		0-15	BR BL	70	10	20				x	20	x	x		1.45%	10	2	5	10
87		2400	53	3	0-25	LT BR	70	10	20				x	25	5	x		3.05%	10	4	2	10
88		2200	53	3	0-35	PL GY OR	70	10	20				x	60	x	0.5		8.05%	5	12	4	10
89		2000	53	3	0-30	LT BR	70	10	20				x	20	.5	0.5		1.00%	10	9	11	15
90		1800	53	3	0-20	GY GN	70	10	20				x	15	x	0.5		3.15.0	10	5	x	15
91		1600	53	3	0-15	BR	60	10	20	10			x	50	10	1.0		6.15.0	20	15	1	10
92		1400	53	3	0-15	LT BR GY	60	10	20	10			x	40	15	x		3.80.0	10	2	x	10
93		1200	53	3	0-15	BR	40	10	20	30	ROAD		x	5	5	1.0		10.00	20	1	x	5
94		1000	53	BC HOR 2	0-25	BR	60	10	20	10			x	15	5	0.5		4.5.0	5	1	1	5
95		800	53	2 HOR 2	0-15	LT BR	50	10	30	20			x	25	10	x		12.5.0	5	3	1	5
96		600	53	3	0-35	GY GN	70	10	20				x	5	x	x		1.5.0	x	1	11	15
97		400	53	3	0-30	LT GY	60	10	20	10			x	100	x	x		9.5.0	5	111	4	10
98		200	53	3	0-40	GY BR	60	10	20	10			x	75	5	x		3.10.0	5	110	11	30
99	374	000	53	3	0-50	BR	70	10	20		MINE		25	160	x	0.5		4.95.0	x	90	3	15
50000	373	980	53	3	0-50	GN	60	10	30				30	85	x	x		2.05.0	10	91	1	10
			53	3																	

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626207

Project : Mt. Black E.L. 1/82
Locality : Matone
Grid Name : Matone
Nominal Grid Azimuth : A.M.G.

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : Mathinsen Contractors
Date : Feb-March 1982

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	C
	364500N																				
50801	375120E	53	3	0·15	LTBR	70	10	20				5	45	40	0·5		2·30%	175	18	X	15
2	140	53	BC HORZ	0·50	ORBR	70	10	10	10			5	75	35	0·5		3·35%	150	15	X	15
3	160	53	3	0·75	BR	70	10	20				5	70	40	X		2·10%	75	23	X	15
4	180	53	BC HORZ	0·20	DKBR	70	10	10	10			10	70	45	X		2·45%	75	43	X	15
5	200	53	BC HORZ	0·20	BR	60	10	20	10			5	50	20	X		1·00%	30	28	X	20
6	220	53	B HORZ	0·20	DKBR	50	10	10	30			10	100	40	X		4·05%	80	66	1	20
7	240	53	B HORZ	0·20	LTBR	60	10	20	10			5	35	15	X		23.50	20	5	X	10
8	260	53	BC HORZ	0·25	LTYLBR	60	10	10	20			X	30	20	X		30.00	25	4	X	15
9	280	53	3	0·15	LTBR	60	10	20	10			5	70	15	X		23.00	25	3	X	15
10	300	53	3	0·15	LTBR	60	10	20	10	CREEK		5	30	15	X		28.50	20	2	1	10
11	320	53	3	0·20	LTBR	70	10	20				5	45	15	X		47.00	15	5	X	10
12	340	53	3	0·15	LTBR	60	10	20	10			5	80	20	X		31.50	20	3	X	10
13	360	53	3	0·20	LTBR	60	10	20	10			5	55	25	0·5		6.45.0	35	3	X	15
14	380	53	3	0·45	LTBR	70	10	20				X	50	15	X		3.15.0	20	2	X	10
15	400	53	3	0·30	LTBR	70	10	20				X	80	15	0·5		22.50	15	3	X	10
16	420	53	3	0·45	LTBR	80	10	10				5	140	30	X		50.50	20	6	X	15
17	440	53	3	0·20	LTBR	60	10	20	10			X	120	15	0·5		20.00	15	3	X	5
18	460	53	3	0·25	LTBR	60	10	20	10			X	80	20	X		20.50	15	3	X	5
19	480	53	3	0·10	LTBR	60	10	20	10			X	115	20	X		23.00	15	2	X	10
20	500	53	3	0·10	LTBR	60	10	20	10			5	160	25	X		19.50	20	2	X	10
21	520	53	3	0·10	LTBR	70	10	20				X	50	20	0·5		22.50	20	2	X	10
22	540	53	3	0·10	LTBR	70	10	20				5	35	25	X		1·95%	90	4	1	5
50823	375560	53	3	0·30	LTBR	70	10	20				5	40	15	X		87.00	90	2	1	5
		53	3																		
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EZ Co of A'Asia Ltd
Launceston Tas

GEOCHEMICAL SAMPLE DATA SHEET

626208

Project : .....
Locality : A.S.....
Grid Name : .....
Nominal Grid Azimuth : .....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : .....
Date : .....

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	As	Au	Fe %	Mn	As	Sn	Cr
5082[illegible]	365500N / 373600E	53	3	0·50	GY	70	10	20				10	45	30	X		3·65%	1165	5	1	13
25	620	53	3	0·40	ORBR	70	10	20				5	30	65	0·5		8·65%	1185	8	X	75
26	640	53	3	0·40	GYBR	70	10	20				5	25	115	X		7350	130	3	X	45
27	660	53	3	1·00	LTBR	70	10	20				30	35	65	X		3·75%	175	6	X	55
28	680	53	3	0·90	LTBR	50	20	30				110	50	65	0·5		5·35%	145	13	X	55
29	700	53	3	1·20	YLBR	70	10	20				20	40	90	0·5		5·95%	170	2	X	60
30	720	53	3	0·40	GYYLOR	70	10	20				10	35	95	X		7·75%	110	5	X	105
31	740	53	3	0·60	LTBR	70	10	20				25	25	65	X		4·35%	130	3	X	65
32	760	53	3	0·90	YLGN	70	10	20				70	20	95	X		4·55%	140	2	X	50
33	780	53	3	1·50	LTBR	70	10	20				20	40	215	X		5·65%	115	1	X	35
34	800	53	3	0·70	LTBRGY	50	20	30				110	30	120	X		4·30%	105	1	X	75
35	820	53	BCHOR 2	0·60	BR	60	10	20	10			30	30	55	X		1·55%	35	2	X	80
36	840	53	3	0·40	LTBRGY	70	10	20				20	25	60	X		2·35%	30	1	X	65
37	860	53	3	0·30	LTBR	70	10	20				10	40	35	X		5·75%	205	6	X	75
38	880	53	3	1·30	GNBR	60	10	10	20			30	55	80	0·5		4·35%	185	9	X	75
39	900	53	BCHORZ	0·15	DKBR	60	10	20	10			15	95	60	X		4·25%	375	14	X	50
40	920	53	BCHORZ	0·15	BRORYL	60	20	10	10			10	50	75	0·5		5·65%	255	3	1	35
41	940	53	3	0·30	ORBR		70	10	20			35	35	35	0·5		5·55%	50	14	X	35
42	960	53	B HORZ	0·10	BRGY	40	10	30	20			45	65	45	0·5		3·05%	85	4	X	30
43	980	53	3	0·50	BR	70	10	20		CREEK		35	25	80	X		4·50%	115	3	X	60
44	374000	53	3	0·50	BRGY	70	20	10				10	15	40	X		1·25%	25	1	X	55
45	020	53	3	0·50	LTBR	70	10	20				45	20	55	0·5		2·30%	40	2	X	40
46	040	53	3	0·50	LTBR	70	10	20				20	20	75	X		1·70%	25	1	X	40
47	060	53	3	0·50	LTBR	70	10	20				20	25	35	X		9300	10	2	X	35
48	080	53	3	0·45	BRGN	70	10	20				50	35	100	X		3·55%	150	7	X	60
49	100	53	3	0·30	LTBR	70	10	20				15	55	120	X		10·00%	175	14	X	65
50	120	53	3	0·40	YLOR	70	10	20				110	45	55	X		8·95%	165	47	X	30
51	140	53	B HORZ	0·10	ORBR	60	10	20	10			30	140	180	0·5		6·45%	2950	31	1	50
52	160	53	3	0·40	BR	75	15	5	5			70	160	130	0·5		9·60%	5915	46	X	120
50853	180	53	B HORZ	0·10	BR	60	10	20	10			90	210	300	1·0		8·05%	4350	49	X	100

EZ Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626209

Project : .....
Locality : .....
Grid Name : .....
Nominal Grid Azimuth : .....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : .....
Date : .....

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
5085	365500N / 374200E	5	BC HOR	2	0·15	BRGY	80	10	10		CREEK		60	200	195	1·0		8·10%	3250	47	X	70
55		220	5	B HOR	2	0·15	BR	60	10	20	10			90	260	275	1·0		9·40%	8900	150	X	90
56		240	5	BC HOR	2	0·40	BR	60	20	20		CREEK		85	385	340	1·5		10·0%	7250	57	X	190
57		260	5	BC HOR	2	0·10	DKBR	60	10	20	10			65	290	1050	1·0		8·55%	7050	90	X	70
58		280	5	BC HOR	2	0·40	DKBR	50	20	10	20			105	265	1100	1·0		9·40%	2·35%	51	X	85
59		300	5		3	0·30	LTBR	70	10	20				45	110	900	0·5		6·75%	2750	115	X	65
60		320	5		3	0·40	YLOR	80	10	10				15	90	250	0·5		4·25%	1250	50	X	45
61		340	5	BC	3	0·15	BR	60	10	20	10	CREEK		10	65	350		X	1·05%	1450	7	1	30
62		360	5	BC HOR	2	0·10	BRGY	60	10	20	10			30	145	1550	1·0		5·25%	6850	30	1	145
63		380	5		3	0·120	YLBR	70	10	20				15	60	450	0·5		3·10%	5150	11	X	80
64		400	5		3	0·25	YLBR	70	10	10	10			20	145	1100		X	3·30%	4050	9	2	235
5086	5	420	5	BC	3	0·15	BR	60	10	20	10			10	25	450	0·5		2·10%	1150	11	X	205
66		440	5		3	0·50	BR	70	20	10				10	20	850		X	2·95%	950	3	X	145
67		460	5		3	0·40	LTBR	70	10	20				10	20	1100	1·0		5·05%	2950	3	X	115
68		480	5	BC HOR	2	0·15	BR	60	30	10				10	90	1200	0·5		4·30%	2100	3	X	140
69		500	5		3	0·15	BR	70	10	20				15	100	850		X	3·50%	2150	5	X	130
70		520	5		3	0·30	BR	60	20	20				10	65	500	0·5		2·15%	2750	3	X	100
71		540	5		3	0·30	ORBR	70	10	20				5	35	300		X	2·70%	750	2	X	95
72		560	5		3	0·350	RYL	60	20	20				10	20	200		X	2·75%	1250	4	X	65
73		580	5		3	0·15	LTBR	70	10	20				10	70	550		X	9150	1100	2	X	65
74		600	5	BC	3	0·15	DKBR	70	10	10	10			10	30	150	0·5		1·35%	1500	5	X	60
75		620	5		3	0·20	LTBR	70	10	20				5	15	100		X	9600	1000	3	X	65
76		640	5		3	0·50	ORBR	70	10	20				15	15	150	0·5		2·05%	1500	1	X	60
77		660	5		3	1·00	YLBR	70	10	20				20	15	600		X	2·10%	1500	1	X	80
78		680	5		3	0·55	ORYL	80	10	10				15	15	350		X	4·70%	3200	2	X	75
79		700	5		3	0·30	LTBR	70	10	20				15	30	150		X	3·45%	1600	3	X	75
80		720	5		3	0·90	YLBR	80	10	10				15	30	350	0·5		2·95%	3550	2	X	70
81		740	5		3	0·70	ORBR	70	10	20				30	15	750		X	10·0%	3500	5	X	60
82		760	5		3	0·20	BR	50	20	20	10			15	10	400		X	5·15%	2500	4	X	70
5083	374780	5		3	0·50	LTBR	70	10	20				5	5	300		X	2·95%	4500	5	X	85

EZ Co of A Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

620210

Project : .....
Locality : .....
Grid Name : .....
Nominal Grid Azimuth : .....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : .....
Date : .....

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No 365500N / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam.	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50883	374780E	53		0·50	LTBR	70	10	20				5	5	30	X		2·95%	45	15	X	85
84	800	53		0·20	WHBR	50	20	20	10			X	X	10	X		3400	5	3	X	55
85	820	53		0·30	ORBR	70	10	20				15	35	40	X		3·60%	115	8	X	45
86	840	53	BC HORZ	0·15	BROR	60	20	20		CREEK		5	50	25	X		2·25%	100	17	X	45
87	860	53	BC HORZ	0·20	BR	60	10	30	10			20	55	45	0·5		2·45%	105	19	1	35
88	880	53		0·25	YLOR	60	10	20	10			10	335	180	0·5		5·95%	4050	41	X	20
89	900	53	BC HORZ	0·20	BROR	60	10	20	10			30	30	45	X		2·75%	225	14	X	25
90	920	53	BC HORZ	0·15	BROR	70	10	20				X	15	30	X		3·80%	95	16	1	40
91	940	53	BC HORZ	0·15	BROR	60	10	20	10			45	120	85	0·5		7·55%	2350	8	X	50
92	960	53	B HORZ	0·20	BR	40	20	30	10			55	340	130	0·5		6·75%	1150	16	1	45
93	980	53		0·20	LTBR	70	10	20		RIVER		5	110	50	X		2·80%	185	26	X	25
94	375000	53		0·15	LTGYOR	70	20	10				5	30	10	X		1·00%	25	14	X	20
95	020	53	BC HORZ	0·15	LTBRGY	60	10	20	10			5	35	15	X		4200	35	7	1	15
96	040	53	BC HORZ	0·30	LTB	70	10	10				5	15	20	X		1·15%	20	12	1	30
97	060	53		0·10	LTBR	70	10	20				X	50	25	X		2·55%	60	37	2	15
98	080	53		0·45	YLBR	80	10	10				5	30	15	X		1·25%	15	27	X	15
99	100	53		0·25	GYBROR	70	10	20				10	45	105	0·5		2·15%	370	43	X	30
50900	120	53		1·00	ORBR	70	10	20				X	40	15	X		3·25%	115	490	X	60
1	140	53	BC HORZ	0·30	BR	60	10	20	10			5	15	35	X		3600	35	27	2	10
2	160	53		0·10	BR	40	10	50				40	90	105	0·5		2·35%	890	67	X	15
3	180	53		0·30	BR	60	10	30				25	55	85	0·5		2·30%	415	43	X	20
4	200	53	BC HORZ	0·10	LTBROR	70	10	10	10			5	65	45	X		1·70%	215	16	X	15
5	220	53	B HORZ	0·15	BR	60	10	20	10			10	100	60	X		1·90%	695	13	2	10
6	240	53	BC HORZ	0·10	BRGY	70	10	10	10			10	100	90	1·0		1·85%	2500	22	X	20
7	260	53		0·10	ORBR	60	10	20	10			20	85	70	X		2·65%	305	27	1	30
8	280	53		0·20	YLBROR	80	10	10				10	45	50	0·5		2·60%	310	21	X	30
9	300	53		0·20	LTBR	70	10	20				10	50	65	X		3·20%	355	21	X	35
10	320	53	BC HORZ	0·15	BR	70	10	20				25	165	280	0·5		3·75%	5150	31	1	35
11	340	53		0·15	LTBR	70	10	20				10	95	90	X		3·35%	1500	32	X	40
50912	375360	53	BC HORZ	0·15	YLGYBR	80	10	10				5	330	350	0·5		2·25%	1800	20	2	25

EZ Co of E Asia Ltd
Prospecting Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626211

Project :
Locality :
Grid Name :
Nominal Grid Azimuth :

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By :
Date :

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	As	Au	Fe %	Mn	As	Sn	Cr
	365500N																				
50913	375300E	53	B HORZ	0·15	DKBR	60	10	10	20			20	290	470	0·5		1·30%	4750	4	2	10
14	400	53	B HORZ	0·15	DKBR	70	10	20				10	205	250	0·5		1·65%	5350	16	1	5
15	420	53	BC HORZ	0·20	BR	60	10	20	10			X	55	40	X		1·05%	215	8	X	5
16	440	53	B HORZ	0·15		50	20	30				X	55	40	X		1·35%	130	18	X	X
17	460	53		0·15	BR	70	10	20				X	20	30	X		1·00%	65	8	1	X
18	480	53	BC HORZ	0·15	BROR	80	10	10				X	35	25	X		1·55%	50	17	X	X
19	500	53	BC HORZ	0·15	BROR	70	10	20				5	50	35	X		3·45%	1350	7	X	5
20	520	53	BC HORZ	0·15	ORBR	70	10	20				X	55	35	X		2·45%	210	9	X	X
21	540	53	BC HORZ	0·20	BR	70	10	20				10	50	35	X		1·75%	215	5	X	X
22	560	53		0·20	ORBR	70	10	20				10	30	40	X		3·40%	510	4	X	X
23	580	53	BC HORZ	0·10	DKBR	60	10	20	10			10	40	50	X		3·15%	365	4	X	X
24	600	53	BC	0·45	BR	80	10	10				10	35	45	X		1·90%	275	2	X	X
25	620	53		0·15	LTBR	60	10	20	10			10	30	40	X		1·75%	165	2	X	X
26	640	53	BC		LTBR	60	10	20	10			10	35	35	X		1·25%	145	5	X	X
50927	375660	53		0·10	LTBR	70	10	20				10	20	25	X		3100	20	X	1	X
28	680	53		0·15	LTBROR	70	10	20				10	10	25	X		7650	15	X	X	X
29	700	53		0·15	LTBR	70	10	20				5	15	25	X		3850	20	X	2	X
30	720	53		0·25	LTGN	70	10	20				10	70	25	X		2450	10	2	X	5
31	740	53		0·25	LTBR	70	10	20				10	125	35	X		5450	15	3	X	5
32	760	53	BC HORZ	0·20	LTBR	60	10	20	10			5	15	20	X		1750	30	X	X	5
33	780	53	BC HORZ	0·10	LTBR	40	20	30	10			5	30	20	X		2350	35	X	X	5
34	800	53		0·10	LTBR	40	20	30	10			5	75	35	X		2650	65	2		X
35	820	53	BC HORZ	0·30	LTBR	50	10	30	10			X	45	35	X		3100	75	2		X
36	840	53		0·45	WH	60	10	20	10			5	90	50	X		2300	10	1		X
37	860	53		0·25	LTBR	70	10	20				10	10	15	X		1050	5	X		X
38	880	53		0·45	WHBR	60	10	20	10			10	10	15	X		1300	10		X	X
39	900	53		0·40	BR	60	10	20	10			10	100	[illegible]	X		5750	30	[illegible]	X	[illegible]
40	920	53		0·20	BR	60	10	20	10			10	100	35	X		7100	30	3	X	[illegible]
41	940	53		0·30	LTBR	60	10	20	10			10	80	25	X		4000	15	9	X	[illegible]
50942	375960	53		0·45	LTBR	60	10	20	10			10	70	40	X		2500	65	2	X	[illegible]

EZ Co of A'Asia Ltd
Bisbee Tas.

GEOCHEMICAL SAMPLE DATA SHEET

626212

Project : .....
Locality : .....
Grid Name : .....
Nominal Grid Azimuth : .....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : .....
Date : .....

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm. unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cr
50943	375980E			0.25	LTBR	70	10	20				10	130	65	x		4600	35	5		x
44	376000	S3	B HORZ	0.10	DKBR	40	10	20	30			5	50	20	x		1600	20	11	1	10
45	20	S3		0.15	LTBR	70	10	20				50	370	280	1.0		4.25%	1250	100	1	40
46	40	S3		0.25	BRGY	70	10	10	10			25	345	180	x		4.40%	365	8	1	120
47	60	S3	B HORZ	0.20	BR	60	10	20	10			35	280	125	x		3.75%	1800	48	x	60
48	80	S3	BC HORZ	0.40	ORBRGY	80	15	5				55	640	225	x		4.75%	2.15%	90	1	70
49	100	S3	BC HORZ	0.20	BR	60	10	20	10			15	630	180	x		5.40%	4950	25	x	10
50	120	S3	BC HORZ	0.20	DKBR	60	10	20	10	CREEK		10	25	30	0.5		3800	120	4	x	x
51	140	S3	BC HORZ	0.30	BR	50	10	30	10			10	50	25	x		2950	90	8	x	10
52	160	S3	BC HORZ	0.10	LTBR	50	10	30	10			10	65	25	x		3650	365	5	1	x
53	180	S3	BC HORZ	0.10	BR	60	10	20	10			10	50	25	x		1400	45	1	1	5
54	200	S3	BC HORZ	0.25	BRGY	40	20	30	10			10	35	20	x		3000	265	1	1	5
55	220	S3	BC HORZ	0.15	LTBR	60	10	20	10			10	45	30	x		1400	115	x	x	5
56	240	S3	AB HORZ	0.30	LTBR	10	20	30	40			10	40	15	x		1000	20	1	1	5
57	260	S3	BC HORZ	0.15	LTBR	50	10	30	10			10	35	20	x		1400	30	1	1	5
58	280	S3	BC HORZ	0.10	LTBR	60	10	20	10			10	10	15	x		900	20	x	x	5
59	300	S3		0.15	LTBR	50	20	30				5	10	20	x		1100	20	x	x	5
60	320	S3	BC HORZ	0.15	LTBR	60	10	20	10			10	50	30	0.5		1600	70	2	2	5
61	340	S3	BC HORZ	0.10	DKBR	40	20	10	30			10	35	20	x		1150	30	1	1	5
62	360	S3	BC HORZ	0.10	BR	40	20	20	20			15	100	15	x		11350	65	1	x	x
63	380	S3		0.10	BR	50	20	30				15	170	30	x		900	35	1	x	x
64	400	S3		0.10	BR	50	20	30				10	50	25	x		600	50	1	1	5
65	420	S3	BC HORZ	0.15	BR	60	10	20	10			15	75	25	x		3600	255	20	1	5
66	440	S3	BC HORZ	0.15	BR	50	30	20				10	100	40	x		1.50%	1950	70	x	5
67	460	S3		0.20	LTBR	60	10	20	10			5	25	15	x		2200	1130	5	x	5
68	480	S3		0.10	LTBR	60	10	20	10			5	55	15	x		950	60	5	x	x
69	500	S3		0.15	LTBR	50	10	30	10			x	50	15	x		1450	45	9	x	x
70	520	S3		0.20	LTBRWH	50	20	30				x	60	15	x		850	45	10	1	5
50971	376540	S3		0.05	BRGY	60	10	20	10			5	125	45	x		2550	485	9	x	5
		S3																			

≡Z Co of A'Asia Ltd
Rosebery Tas

GEOCHEMICAL SAMPLE DATA SHEET

626213

Project : .....
Locality : .....
Grid Name : .....
Nominal Grid Azimuth : .....

Material : Soil Samples
Sample Method : Hand Shell Auger
Sampled By : .....
Date : .....

Size Fraction Analysed : -80#
Analysed By : Analabs
Method : A.A.S.

SAMPLE NUMBER	Sample Location Data: Grid Line No / Grid Easting	AMG CO-ORDINATES: NORTHING	EASTING	DEPTH	Sample Composition Data: COLOUR	Clay	Sand	Rock Frags.	Organic	Contam	Geology	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	As	Sn	Cl
50172	365500N / 376560E	53	3	0·15	BRGY	70	10	20				5	210	30	x		1·0 50	400	9	x	5
73	580	53	3	0·15	BR	60	10	20	10			10	655	25	x		1·7 50	250	3	1	10
		53	3																		
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APPENDIX G

Rock Sample Data - Ring River Grid

180

626215

Electrolytic Zinc Co. of A'asia Ltd.
Rosebery, Tas.

ROCK SAMPLE LEDGER

PROJECT: Mt Black LOCALITY: Ring River Grid
COLLECTED BY: J. Richardson DATE: Apr - Jun 1982

Sample Number	A.M.G. Co-ordinates N	A.M.G. Co-ordinates E	Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section: T or P	By	Reference	Rock-type (Microscopic)	Metal Content (p.p.m. unless specified): Pb / Cr	Zn / Ni	Cu / Co	Ag	Fe %	Mn	Sn	As
46602	5369300	374410	Rock	(a) Dark green fine grained serpentinite	Us												
				(b) Very coarse grained green pyroxenite	UPX												
46605	5369100	374840		Fine grained purplish volcanic wacke	Svwk					15 / 85	150	10	x	8.20	455	x	7
46609	5369100	374420		Green grey wacke - mg, 90% qz + feldspar with some rock fragments in matrix	Sgwk												
46610	5369100	374390		Green grey fine grained arenite - qz + fs grains well sorted in greenish matrix	Sar												
46612	5369100	374240		Oxidized orange conglomerate - quartz + rock pebbles in a sandy matrix	Scon												
46615	5368900	374800		Dark grey fine grained arenite - soft	Sar					x / 105	155	275	x	9.15	330	x	28
46617	5368700	375520		Oxidized greenish white lim-stained quartzite	Sqz												
46618	5368700	375500		White quartz sandstone - poorly sorted m-cg rounded mg + cg quartz, patches silicification	Sqsst												
46619	5368700	374100		Very coarse grained - feldspar - quartz - lithic frag - all rounded in grey greywacke matrix	Sgwk					10 / 125	110	50	x	6.95	275	1	7
46620	5368700	374020		Grey grit - fine conglomerate Quartz, feldspar + rock pebbles (2-10mm) in arenite matrix	Scon / Sqar	T	D Cowan	CMS 82/7/82	cg Slar	x / 95	170	10	0.5	1.80	45	x	10
46621	5368500	374460		Purplish fine grained arenite - volcanic	Svar					15 / 130	145	10	x	7.75	1000	2	x
46622	5368400	374000		Khaki siltstone with patch of fine grained pyrite	Sslt py												
46623	5368290	375420		Fe - Mn stone from old pit ~0.5m deep	gos												
46624	5368100	374270		From dump of adit - chert with massive fine grained pyrite	si - py												
46625	5368100	373960		Grey coarse grained arenite - round qz, fs + lithic grains in clay matrix	Sar												

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626216

Electrolytic Zinc Co. of A'asia Ltd.
Rosebery, Tas.

ROCK SAMPLE LEDGER

PROJECT: Mt Black LOCALITY: Ring River Grid
COLLECTED BY: J. Richardson DATE: Apr-June 1982

Sample Number	A.M.G. Co-ordinates N	E	Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section: T or P	By	Reference	Rock-type (Microscopic)	Metal Content (p.p.m. unless specified): Pb / Cr	Zn / Ni	Cu / Co	Ag	Fe %	Mn	Sn	As
46626	5367900	374630	Rock	Grey medium grained VS. Qz, fs and lithic frags rounded in fg matrix (=rewk'd Ad)	Svar = (xlt Ad rewd)												
46627	5367900	374470		White feldspar phenocrysts in a dark grey siliceous matrix = dacite tuff	xlt Ad.f												
46628	5367775	374225		Pyrite and tetrahedrite from dump of Fahlore Mine	py												
46629	5367100	375870		Volcanic arenite (rewkd xlt Ad) - rounded qz, feldspar crystals, minor pumice + some lithic fragments	Svar q.f												
46630	5367300	374310		Dark grey thin bedded siltstone	Sslt												
46631	5367100	374145		Mg, white saccharoidal well sorted quartz sandstone	Sqsst												
46632	5366900	376865		Dark grey very fine grained lithic wacke with siltstone frags	Slwk					60	390	115	x	9.55	1100	x	x
										140							
46635	5366720	373640	Channel	siltstone with pyrite + galena stringers + lenses	py					x	5	5	x	0.14	15	1	x
										305							
46636	5366700	374680	Rock	Dark grey siltstone with fine grained pyrite bands	Sslt py												
46637	5366700	375080		Pale grey v.f.g quartzite	Sqz												
46638	5366100	374240		Black f-mg micaceous (biotite) and shale/slate fragments arenite	Slar mic												
46639	5366300	374795		Dark green grey crystal lithic tuff Fs + black lithic frags + tr py	xlt Ad												
46640	5366300	375420		Pale grn grey cleaved feldspar crystal tuff - possibly sericitized	xlt Ac	T	Warren	CO 553/7/12	vol + Acid	5	20	5	x	1.65	65	1	5
										20							
46641	5366100	375570		Pale green grey siltstone with x cutting + chlorite veinlets	Sslt												
46642	5366100	375520		Green grey coarse grained arenite Rd's quartz + angular white feldspar in a grey fine grained matrix (float)	S Sar q.f												

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626217 182

Electrolytic Zinc Co. of A'asia Ltd.
Rosebery, Tas.

ROCK SAMPLE LEDGER

PROJECT: Mt Black LOCALITY: Ring River Grid
COLLECTED BY: J. Richardson DATE: Apr-June 1982

Sample Number	A.M.G. Co-ordinates N	A.M.G. Co-ordinates E	Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section: T or P	Thin or Polished Section: By	Thin or Polished Section: Reference	Thin or Polished Section: Rock-type (Microscopic)	Metal Content (p.p.m. unless specified): Pb / Cr	Zn / Ni	Cu / Co	Ag	Fe %	Mn	Sn	As
46644	5366100	373670	Rock	Angular acid volcanic fragments + chlorite clots in a variable matrix (clay / chloritic / sandy). Breccia	Sbx												
46645	5366100	373670		Breccia with dark green angular fragments in pale green siliceous matrix	Sbx					5 / 450	140	10	x	7.05	245	x	5
46646	5366100	373610		Breccia - 60% rhyolite fragments 1mm - 7cm angular to rounded in siliceous matrix	Sbx												
46648	5366300	373600		Green grey brecciated ? basalt with amygdales of siderite or limonite (alt siderite)	a Mv												
46649	5366300	373640		Rounded pebble of rhyolite in mg matrix of reworked rhyolitic tuff	VScon												
46650	5366300	373690		Green grey silicified ? basalt with small spherical white ? zeolites	Mv si												
46651	5366300	373905		Dump sample of adit. Chalcopyrite, tetrahedrite in manganese siderite	cb												
46652	5365900	374480		Dark grey micaceous quartzite carbonaceous microfilms	Sqz mic	T	Cowan	CMS 82/7/22	Sqlar	25 / 110	60	10	x	4.50	390	1	13
46653	5365900	374910		Fe-Mn stained rocks in oxidized siltstone	lim												
46654	5365700	375640		White mg reworked acid tuff. Feldspar grains, mes rare rounded quartz + lithic frags.	rewk'd xt Arf												
46655	5365700	375780		stream sediment sample													
46656	5365700	375435		White fine grained aaa volcanic arenite dom rd'd fs with minor rd'd quartz.	Svar gf												
46657	5365900	373740		Dark green matrix of chlorite + ? serpentine minerals with amygdales of siderite. Alt. amygd basalt	a Mv cd												
46658	5365900	373720		Altered amygdaloidal basalt with py veinlets + py replacing ? siderite of amygdule	a Mv cd py												
46659	5365700	373530		pebble conglomerate.													

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Electrolytic Zinc Co. of A'asia Ltd.
Rosebery, Tas.

ROCK SAMPLE LEDGER

PROJECT: MT Black LOCALITY: Ring River Grid
COLLECTED BY: J. Richardson DATE: Apr - Jun 1982

Sample Number	A.M.G. Co-ordinates N	A.M.G. Co-ordinates E	Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section: T or P	By	Reference	Rock-type (Microscopic)	Metal Content (p.p.m. unless specified): Pb / Cu	Zn / Ni	Cu / Co	Ag	Fe %	Bi	Sn	As
46660	5364700	374020E	rock	Oxidized bowmore mesy fine grained arenite - trace quartz most kaolinized fs	Sar f												
46661	5367615	375340		Dark grey fine grained foliated wacke. ?volcanic and altered fs in chl matrix	fg Swk	T	Gemmell	C&S 5:4/5	chl Sglar arkose	X 20	10	15	X	1:65	20	X	5
46662	5367490	375280		Grey silicified vfg Ssst with cb veinlet and traces green Cr mica (? Fuchsite)	Ssst												
46663	5367405	375270		Green grey, silicified ?reworked crystal vitric tuff with carbonate and trace pyrite	?rewk xtlAr (cb)												
46664	5367230	375165		Green grey silicified, sheared, chloritized and carbonated acid tuff (py)	tAr cld cb												
46665	5367115	375105		Pale green grey very fine grained fs lithic wacke	Swk					30 120	165	130	X	12:68	280	1	9
46666				Green to brown fine grained sheared lithic wacke, chloritized	Slwk cld												
46667	5366555	374930		Brecciated black shale, healed by white quartz carbonate	Shs brgtd												
46668	5366600	374930		Grey green fine grained rhyolitic tuff - sericite, carbonated, py	tAr sil												
46669	5367210	374670		Black micaceous very fine grained arenite ? recrystallized	Sar mic					10 50	20	10	0·5	2:50	95	X	6
46670	5367200	374670		Dark grey fine grained recrystallized ? hornfelsed or silicified qzite	Sqz												
46671	5367205	374670		Dark grey fine grained ? hornfelsed quartzite	Sqz												
46672	5367250	374665		Dark grey fine grained ? hornfelsed quartzite	Sqz												
46673	5367265	374655		Dark grey fine grained ? hornfelsed quartzite	Sqz												
46674	5367295	374580		Pale grey quartzite - fine grained recrystallized	Sqz												

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Electrolytic Zinc Co. of A'asia Ltd. Rosebery, Tas.	ROCK SAMPLE LEDGER	PROJECT: Mt Black LOCALITY: Ring River Grid COLLECTED BY: J. Richardson DATE: Apr - Jun 1982

Sample Number	A.M.G. Co-ordinates N	A.M.G. Co-ordinates E	Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section T or P	By	Reference	Rock-type (Microscopic)	Metal Content (p.p.m. unless specified) Pb / Cr	Zn / Ni	Cu / Co	Ag	Fe %	Mn	Sn	As
46675	5367450	374 365	Rock	Green grey, medium grained reworked feldspathic tuff	rewk'd xt Arfq												
46676	5 367460	374 330		Green grey medium grained crystal lithic tuff reworked	rewk'd xt Arfq	T	Cowan	CMS 82/7/22	rewk'd t Mv c'd	5 / 25	270	5	x	8.50	1250	x	x
46677	5 367 600	374 170		Green fine grained quartz arenite	Sqar												
46678	5 367 525	374 080		Grey fine grained quartz arenite = stockwork of ?chlorite veinlets	Sqar	T	Cowan	CMS 82/7/22	Svar c'd	10 / 180	95	25	x	6.85	380	x	5
46679	5 367 590	374 005		Grey, fine grained thin bedded micaceous quartz arenite	Sqar mic												
46680	5 367 615	373 995		Oxidized org brown fine grained quartz arenite - clay matrix	Sqar												
46681	5 367 585	373 895		Pale grey m-cg quartz lithic arenite with shale frags to 1cm	Sqlar												
46682	5 367 550	373 865		Oxidized (kaolinized) pale grey coarse grained q f l arenite shale frags to 5cm	Sfqar shale frags												
46683	5 367 635	373 625		Oxidized pale orange feldspar lithic quartz arenite - coarse grained	Sfqlar												
46684	5 366 860	373 935		Grey dolomitic siltstone with ? recryst dol. and a large shale frag/pebble	Sslt cb	T	Cowan	CMS 82/7/22	Svar cb'd	60 / 65	145	1200	2.0	7.35	1650	x	9
46685	5 366 860	373 950		Grey fine grained quartz arenite with numerous carbonate veins & replacement	Sqar cbvn												
46686	5 366 835	373 955		Dark green grey altered basalt	Mv c'd					35 / 45	130	35	0.5	7.85	705	x	15
46687	5 366 825	373 980		Pale green grey ~~very~~ fine grained quartz feldspar arenite	Sqfar												
46688	5 366 800	373 995		Pale green grey fine grained quartz arenite - clay matrix	Sqar												
46689	5 366 700	373 990		Dark grey siltstone, trace pyrite, iron stained from oxidation on surface	Sslt												

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Electrolytic Zinc Co. of A'asia Ltd.
Rosebery, Tas.

ROCK SAMPLE LEDGER

PROJECT: MT Black LOCALITY: Ring River Grid
COLLECTED BY: J. Richardson DATE: Apr - Jun 1982

Sample Number	A.M.G. Co-ordinates N	A.M.G. Co-ordinates E	Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section T or P	By	Reference	Rock-type (Microscopic)	Metal Content (p.p.m. unless specified) Pb/Cr	Zn/Ni	Cu/Co	Ag	Fe %	Mn	Sn	As
46690	5366635	374045	Rock	Dark grey fine grained feldspathic arenite with slate ~~fm~~ partings & dol. cement	Sfar												
46691	5366590	374100		Dark green grey subaqueous crystal lithic dacitic tuff.	xltAdfq												
46692	5366540	374140		grey coarse grained quartz feldspar arenite	Sqfar												
46693	5366285	374115		Dark grey fine grained micaceous quartzite	Sqz mic					45 60	85	20	x	1.30	90	3	240
46694	5366245	374095		Dark grey fine grained micaceous quartzite minor dissem pyrite	Sqz mic	T	Cowan	CMS/82/7/22	Sqlar	80 115	20	15	1.0	1.90	105	x	9
46695	5366105	374015		Quartz vein with limonitic & manganese staining	qz vn												
46696	5365940	373935		Pale grey very fine grained ~~dr~~ quartzite, trace muscovite, qz veining	Sqz					x 40	5	5	x	0.42	20	1	29
46697	5365835	373955		Fe - Mn limonitic stone	gos												
46698	5365605	374010		grey brown silicified quartz feldspar arenite - trace muscovite	Sqfar												
41925	5365180	374400		coarse grained oxidized brown lithic wacke and conglomerate	Scon												
41926	5365160	374395		lithic wacke and pebble conglomerate - siltst & qz mfg matrix	Scon												
41928	5365105	374410		Iron and manganese stained ? gossan	gos												
41929	5365075	374425		silicified mafic volcanic with ? fuchsite	Mvsi												
41930	5365020	374450		silicified & brecciated mafic rock	bxMvsi												
41931	5364495	374590		silicified mafic volcanic with pyrite stringers 1-5%	Mvsi py												

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Electrolytic Zinc Co. of A'asia Ltd. Rosebery, Tas.	ROCK SAMPLE LEDGER	PROJECT: Mt Black LOCALITY: Ring River Grid COLLECTED BY: J. Richardson DATE: Apr-Jun 1982

Sample Number	A.M.G. Co-ordinates N	A.M.G. Co-ordinates E	Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section T or P	Thin or Polished Section By	Thin or Polished Section Reference	Thin or Polished Section Rock-type (Microscopic)	Metal Content (p.p.m. unless specified) Pb / Cr	Zn	Cu	Ag	Fe %	Mn	Sn	Pts
41989	5375300	375480	Rock	White oxidized rhyolitic crystal tuff	xt Hr												
41990	5365100	374680		Conglomerate - pebbles of purp + grn Sslt, chert in greywacke matrix	Scon	T	Cowan	CMS82/7/82	Volcanoclast + turbidite [illegible]	5 / 125	90	20	0.5	5.60	630	x	5
41991	5365100	374900		Conglomerate - angular to rounded fragments of grn-blk Sslt + chert	Scon												
41992	5367900	375560		Coarse grained quartz feldspar arenite in siliceous cement	Sfq ar												
41993				N/A													
41994	5364900	374740		Dark green grey mg altered mafic or ultramafic	iM c'd si	T	Cowan	CMS82/7/82	iM c'd s'd "deleritic"	15 / 90	95	80	x	7.05	805	x	25
41995	5364900	374580		Dark green silicified fragmental volcanic	t												

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Electrolytic Zinc Co. of A'asia Ltd. Rosebery, Tas.	ROCK SAMPLE LEDGER	PROJECT: Mt Black LOCALITY: King River Grid COLLECTED BY: J. Richardson DATE: Apr - Jun 1982

Sample Number	A.M.G. Co-ordinates N	A.M.G. Co-ordinates E	Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section: T or P	Thin or Polished Section: By	Thin or Polished Section: Reference	Thin or Polished Section: Rock-type (Microscopic)	Metal Content (p.p.m. unless specified): Pb / Cr	Zn / N.	Cu / Co	Ag	Fe %	Mn	Sn	As
41932	5367450	374470	Rock	Dark green-grey medium grained andesite/dacite crystal tuff	mg xt Ad	T	D Cowan	CMS82/7/82	bd Ext Ad	X 25	135	10	X	5.90	655	X	11
41933	5364220	374330	"	Black sphalerite in vein in black siltstone	Sslt sp												
41934	5364300	374260	"	Dale grey medium grained recrystallized carbonate	Sdol												

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APPENDIX H

E.Z. Report 151 - Geology of the Ring River Grid Area by J. Richardson.

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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

West Coast Mines

GEOLOGY OF THE RING RIVER GRID AREA

MT. BLACK E.L. 1/62

E.Z. Geology Dept.
Report No. 151

J. Richardson,
Contract Geologist.
June, 1982.

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SUMMARY

The Ring River Grid area covers a rectangular block of ground within E.L. 1/62. Approximately 40 line kilometres of grid and 7 kilometres of road were mapped. The purpose of the program was to resolve the geology of the area and help evaluate potential for the occurrence of a Renison Bell-Cleveland type orebody.

The Ring River Grid area is underlain by Rosebery Group, Crimson Creek Formation, Primrose Pyroclastics and Curtin Davis Volcanics. Stratigraphy trends approximately north-south, folds about a north-south F1 anticlinal fold axis and later refolded by a open F2 folding event whose axis plunge at shallow angles to the west.

Geology is displaced by three fault sets. The first set is vertical and trends northeast - southwest. The second set is vertical striking northwest-southeast. The third set strikes east-west and vertically displaces fault bounded blocks.

Guidelines for exploration for a Renison Bell-Cleveland type orebody were proposed by comparing Renison Bell-Cleveland mine geology to Ring River Area geology. The theoretical "model target area" is: the line of intersection of pre-granite pluton faults and; the upper contact of Stitt Quartzite or Munro Creek Slate or any limestone-dolomite bed; in an area proximal to a granite body; where vein deposits show metal zoning characteristics similar to Cleveland Mine.

A circular magnetic anomaly in the south of the Ring River may indicate the presence of a buried granite stock or magnetite present in a contact aureole caused by a granite stock.

Detailed mapping of limestone-dolomite beds is recommended to check lateral continuity. An integrated study is recommended to compare soil geochemistry anomalies, Dighem anomalies, V.L.F. anomalies, to:

a) known outcropping limestone-dolomite beds and down dip intersection of faults;

b) the upper contact of Stitt Quartzite and Munro Creek Slate and their line of intersection with faults.

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1. INTRODUCTION

The Ring River Area covers a rectangular block of ground within E.L. 1/62 (figure 1). The author was contracted by Electrolytic Zinc Company of Australasia (E.Z.) to carry out a detailed mapping program from April, 26th to June 30th, 1982. Approximately 40 line kilometres of grid and 7 kilometres of road were mapped. The purpose of this mapping and this report was to resolve the geology of the area and help evaluate the areas of potential for the occurence of a Renison Bell-Cleveland type orebody. Mapping in the area from October, 1979 to March, 1982 on 1,000 metre spaced grid lines, bulldozed tracks, and the Ring River by E.Z. geologists was carried out prior to this program, however their data was made available and is included on maps within this report. Figure 1 is a summary of the areas mapped and personnel involved. This report is a summary of the geology as interpreted from the mapping illustrated in figure 1.

The reader is referrred to E.Z. Report "Review of Exploration in the Natone Area, Mt. Black E.L. 1/62" by G. Drake (1979) for mining history, exploration mapping and government mapping carried out prior to October, 1979.

2. GENERAL GEOLOGY

The geology of the Ring River Grid is shown on figure 2 - accompanying this report. The legend details features of stratigraphic sedimentary units and sub units, intrusive bodies, and deformational events.

The Ring River Grid area is underlain by a thick sequence of Cambrian unfossiliferous sediments and minor intercalated volcanic flows and tuffs. Two sedimentary sequences are recognised. The first, hereafter referred to as the Rosebery Group, correlates with the Success Creek Group of the Zeehan Sheet (Blisset, 1962) and the Rosebery Group (Compana and King, 1963; Loftus Hills et al 1966) exposed along the Murchison Highway, Williamsford Road and Pieman River. The second unit correlates with the Crimson Creek Formation of the Zeehan Sheet (Blisset, 1962). The contact between the two groups was not observed however Elliston (1954), Blisset (1962) and Loftus Hills (1964) reported the Rosebery Group to be older and conformably overlain by the

No Success Ck Gp was recognised by Blissett

Crimson Creek Formation. Curtin Davis Volcanics of the Dundas Group occur as a fault bounded unit at the west extremity of the grid. Primrose Pyroclastics of the Mt. Read Volcanics outcrop at the eastern extremity of the grid area. One elongate ultramafic stock and one mafic stock intrude the sediments. The most northerly occurring one, the Colebrook Serpentinite, forms an elongate body which continues north to Colebrook Hill. The second, the Moores Pimple Gabbro, forms a small triangular body (plan view), at the intersection of two faults.

The stratigraphic units trend roughly north-south dipping steeply east or west. Two phases of folding are recognised from small scale folds in outcrop. Closed folds (F1) with fold axis plunging at a moderate to steep angle to the north and south were mapped. A second phase of folding (F2) was characterised by open folds, fold axis plunging at low angles to the west. One major anticlinal axis (F1) is recognised in the area.

The sedimentary sequences have been offset by a series of four northeast-southwest sub parallel (?vertical) faults, and one northwest-southeast (?vertical) fault. Fault interpretations are based on lateral discontinuity of rock units, air photo lineaments, shearing and fault gouge exposed in road cuts.

2.1. Rosebery Group

The oldest rocks of the area, the Rosebery Group, underlies the majority of the Ring River Grid area. They are in fault contact with Crimson Creek Formation in the northwest portion of the grid, interbedded and overlain by Primrose Pyroclastics to the east, and in fault contact? with Curtin Davis Volcanics to the west. The Rosebery Group is divided into six formations which correlate with formations recognised by Taylor (1954).

In most cases the formations are recognisable as distinct units by the interbedding of two or more rock types. The colour, proportion and composition of the rock types, make each formation a mappable unit.

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Chamberlain Slate Formation:

The Chamberlain Slate Formation is comprised of siliceous siltstone; oxidised brown to purple and black shale; fine grained silicified and recrystallised pale green quartz arenites (minor feldspar, biotite) and quartz, lithic, feldspar wackes (siliceous matrix).

Stitt Quartzite Formation:

The Stitt Quartzite Formation is composed of interbeds of quartz arenite to orthoquartzite and black shales, each forming approximately 50% of the formation.

The black shales are thinly laminated, and occasionally pyritic. Quartz stringers commonly parallel and cross cut bedding. The black shales are not as susceptible to oxidation and weathering as siltstones and usually exposure is good where outcrops occur.

The quartz arenite, and orthoquartzites exhibit saccharoidal texture and are composed of 70 to 90% fine to medium grained quartz grains, up to 15% detrital? muscovite, locally fine grained biotite, and black shale fragments. A well developed quartz stockwork is pervasive throughout most of the quartz arenite and orthoquartzite. The Stitt Quartzite Formation is correlated as being the northeast continuation of the Oonah Quartzite of the Zeehan sheet (Blisset, 1962).

Westcott Argillite Formation:

The Westcott Argillite is composed of laminated pale green, dark green and purple siltstones and shales; volcanic wackes; and narrow beds of dacite to rhyolite.tuff.

The siltstones and shales commonly are oxidised grey to pale brown, and weather to a pale green to grey clay. Siltstones and shales comprise at least 50% of the formation. The volcanic wackes are composed of up to 60% matrix supported grains of fine to coarse grained feldspar, quartz and siltstone fragments. Matrix was fine grained and siliceous. At several locations along and north of the Ring River between 375,000mE and the Fahlore Mine volcanic wackes with lithic and feldspar grains supported in a chloritic matrix outcrop. These

rocks are similar to Crimson Creek volcanic wackes, however the present interpretation includes them within the Westcott Argillite Formation of the Rosebery Group. Thin beds of dacite to rhyolite crystal tuff outcrop north of the Ring River on line 5,367,500mN. A narrow unit of quartz arenite and siltstone occur towards the top of the Westcott Argillite.

Salisbury Conglomerate:

Lenses of conglomerate occur within the Westcott Argillite and Munro Creek Slate Formations at the south extremity of the grid and along the Moores' Pimple track (figure 3). The conglomerate is composed of 30 to 60% well rounded pebbles and cobbles of siltstone chert, quartz and quartzite in a fine to coarse grained sand matrix of the same composition. A bright green mineral, fuchsite occurs associated with fractures in the matrix and on pebbles and cobbles. Formation of the fuchsite is probably related to the Moores' Pimple Gabbro. A narrow limestone bed was exposed on the new road accessing Moores' Pimple track. The outcrop is situated at 5,364,250mN 374,325mE. The limestone stikes 340° dipping vertically. A narrow vein in the limestone contained a sphalerite stringer 1cm wide. A four metre wide dolomite bed outcrops on the Moores' Pimple track at 5,364,300mN 374,250mE.

Natone Volcanics:

Natone Volcanics outcrop on the new road accessing Moores' Pimple track. Rhyolite, white, fine grained, with weakly developed flow banding, up to 5% quartz phenocrysts (0.25mm) and white fine grained rhyolite tuff, interbedded with black shale were exposed in the road cut.

Munro Creek Slate Formation:

The Munro Creek Slate Formation is composed of 70 to 95% laminated shales interbedded with narrow beds of quartz arenite, rhyolite quartz feldspar crystal tuffs, and minor volcanic wackes.

The black shales are laminated, commonly micaceous and pyritic.

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E.Z. geologists mapped black shales with interbeds of limestone on the Ring River on line 5,367,700mN, however whether the carbonate is primary or secondary is uncertain (personal communication - Ian McDonald).

2.2. Crimson Creek Formation

Crimson Creek Formation outcrops in the northwest portion of the Ring River Grid area and is in contact with Rosebery Group along the Fahlore fault. A quartz arenite, siltstone, lithic feldspar wacke unit occupying the fold nose of the Ring River anticlinorium north of the Fahlore fault appears to be conformably overlain by Crimson Creek Formation and may be a transitional unit between Rosebery Group and Crimson Creek Formation. It will be considered here as a lower unit within the Crimson Creek Formation, and is hereafter referred to as the Transition Formation.

The Transition Formation is composed of quartz arenite, quartz lithic wacke, pale green to black shale and siltstone. Minor amounts of clastic grains of feldspar, biotite, chlorite, chert and black shale occur in the quartz arenites. The formation is best exposed immediately west of where the Fahlore fault crosses the NE Dundas Tramway.

The Crimson Creek Formation overlies the Transition Formation and is composed of pale green, purple, and black siltstones and shales, volcanic wackes and pebble conglomerates. The volcanic wackes, which make up approximately 50% of the formation, are composed of up to 20% fine to coarse grained feldspar, minor quartz, minor siltstone fragments in a chloritic matrix. West of the Colebrook Ridge Fault, pebble conglomerate, composed of rounded pebbles of quartz, siltstones, chert and quartzite, in a sand matrix outcrops.

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2.3. Primrose Pyroclastics

Primrose Pyroclastics outcrop along the eastern limits of the Grid. The unit consists of feldspar, minor quartz crystal tuff interbedded with narrow beds of black shale and thicker shale units of Munro Creek Slate Formation implying penecontemporaneous deposition of part of Mt. Read Volcanics and Rosebery Group rocks.

The tuffs are composed of 20-60% feldspar phenocrysts, 1mm-5mm in size in a quartz-feldspathic matrix. Feldspar phenocrysts are kaolinised.

2.4. Curtin Davis Volcanics

A basalt flow and rhyolite? laharic breccia outcrops at the western boundary of the Grid between lines 5,365,700mN and 5,367,000mN. They are considered to correlate to Curtin Davis Volcanics mapped by Elliston (1954) to the west of the Grid area.

The basalt flow is composed of fine grained chlorite with 1 to 10% amygdales of quartz, chlorite and calcite ranging in size from 0.5mm to 5mm. The laharic breccia is composed of 50-70% angular to sub-rounded vesicular rhyolite and flow banded rhyolite fragments and 10% fragments of black shale, chert, quartzite and quartz. Fragments ranged in size from 1mm to 5cm. Fragments were completely matrix supported in a fine grained grey siliceous matrix.

2.5. Intrusive Rocks

Two intrusive bodies occur in the area. The first, the Colebrook Hill Serpentinite occurs as an elongate body parallel to the Colebrook Ridge fault.

The serpentinite varies from very fine to coarse grained and is commonly silicified. The second intrusive body, Moores' Pimple Gabbro, occurs at the junction of the Concliffe and Montezuma faults. It is

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highly silicified and brecciated, with amphiboles digested and replaced, leaving isolated amphidole grains in a fine grained pale green siliceous matrix.

3. STRUCTURAL GEOLOGY

The major structural feature of the area is an F1 anticlinorium, hereafter referred to as the Ring River anticlinorium, the fold axis of which plunges at a moderate to steep angle in north and south directions. The reversal of plunge may be due to faulting and igneous intrusions. Fold axes mapped in the area between the Fahlore fault and Bather Creek fault are interpreted as being parasitic fold axis on the east limit of the Ring River anticlinorium. The anticlinorium fold axis is omitted from surface geology due to fault displacement. A second phase of folding mapped was charaterised by broad open folds with fold axis plunging west at shallow angles.

Tops indicators, graded beds, scour and fill, and cross bedding were mapped at various locations in the area. Only one indicated overturned beds.

Stratigraphy is heavily faulted by three fault sets:

1. Northeast-southwest striking ?vertical faults. (Colebrook Ridge fault, Fahlore fault, Bather Creek fault, and Concliffe fault.)

2. A northwest-southeast striking ?vertical fault (Montezuma Fault).

3. Block faults? striking east-west, and northwest-southeast vertically displacing fault bounded blocks.

Movement along faults is largely unresolved and interpretation of displacement has been confined to determining the upthrown and downthrown blocks.

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A Comparison of Renison Bell and Cleveland Mine Geology to Ring River Grid Geology and Exploration Implications:

Table 1 summarises the geology of the three areas comparing lithology of sedimentary rocks, igneous rocks, mineralisation, structural controls to mineralisation and mineral zoning. The geology of Renison Bell and Ring River Grid geology show the most similarity, which is not surprising considering their close proximity to each other. As stated above Success Creek Group and Rosebery Group are equivalent successions, however at the Ring River area the Rosebery Group appears more diverse in composition. In Table 1 tie lines drawn between Renison Bell Shale, and Munro Creek Slate, and Dalcoath Quartzite and Stitt Quartzite imply a further correlation between groups. The correlation of the Stitt Quartzite and Munro Creek Slates to formations at Renison Bell which are immediately overlain by orebodies has exploration importance.

Structural controls to ore genesis at Renison Bell and Cleveland have exploration implications. The Basset Federal fault at Renison Bell acted as a feeder to the orebodies. The implications is that the faults in the Ring River area formed before granite intrusion and may have acted as feeders to cassiterite mineralising fluids not exposed at surface.

Mapping metal zoning does not appear to offer much potential for initial exploration in the Ring River area.

The absence of greisen in the Ring River area is not necessarily a detraction from its exploration potential. The vertical extent of greisen mineralisation tends to be rather limited, and only in the order of 100-200 metre (G. Smith, 1979). Potential for detection of greisen at depth exists.

4. GEOPHYSICS

A ground magnetic survey was carried out by Scintrex from January 29th to April 15th, 1982. Scintrex MP-2 Proton Precession magnetometers were used in the survey with readings taken every 10m. The normal diurnal corrections were aplied to readings, plotted and contoured on 1:5,000 scale map (E.Z. Plan 4, A0-304-0267).

The ground magnetic survey resolved the Colebrook Serpentinite into two elongate positive anomalies with peaks +6,000 gammas. The 2,600 gamma contour outlines Crimson Creek Formation geology closely. A circular positive anomalies outlined by 2,800 and 2,900 gamma contours in the area south of Ring River is unexplained by surface geology. The circular shape could represent the signature of a buried granite body or possibly the magnetite occurring in a contact aureole related to a granite at depth.

5. CONCLUSIONS

1. The Ring River area is underlain by a thick sequence of Cambrian sediments with minor intercalated volcanic flows and tuffs. Rosebery Group rocks underlie the major portion of the grid area. Six formations are recognised within the group.

Limestone and dolomite beds within Salisbury Conglomerate, and Munro Creek Slate, should be re-mapped to check lateral continuity.

Primrose Pyroclastics outcrop at the eastern extremity of the grid and interfingers with Munro Creek Slate at its western contact with the Rosebery Group.

2. Crimson Creek Formation is in fault contact with the Rosebery Group along the Fahlore fault.

3. Curtin Davis Volcanics of the ?Oundas Group are in fault contact with the Rosebery Group at the west extremity of the grid.

4. Moores' Pimple Gabbro forms a small stock at the intersection of the Montezuma and Concliffe faults. Colebrook Serpentinite forms an elongate body which intruded along the Colebrook Ridge fault.

5. Stratigraphy trends roughly north-south and is folded about the F1 Ring River anticlinoral fold axis and later deformed by an F2 open fold event whose axes plunge at shallow angles to the west.

6. Guidelines for exploration for Cleveland-Renison Bell type orebodies are outlined by comparing mine geology of Renison Bell and Cleveland to the Ring River Grid geology. They are as follows:

a) The Stitt Quartzite and Munro Creek Slate correlate to the Dalcoath Quartzite and Renison Bell Shale. Orebodies occur in limestones immediately overlying Dalcoath Quartzite and Renison Bell Shale. Therefore the upper contact of Stitt Quartzite and Munro Creek Slate had potential for limestone deposition and its subsequent replacement by mineralising fluids.

b) The Basset Federal fault at Renison Bell acted as a feeder to orebodies. Cleveland orebodies were formed by replacement of limestone by mineralising fluids which ascended through joints and fracture sets. Mineralising fluids emonated from underlying granite bodies at Renison Bell and Cleveland. In the Ring River area faults or fracture sets developed prior to intrusion of a buried igneous body could have acted as feeders to ascending cassiterite mineralising fluids.

Theoretically, from the above guidelines the "model target area" for the formation of Renison Bell, Cleveland type orebodies in the Ring River area is: the line of intersection of pre-Granite pluton faults and; the upper contact of Stitt Quartzite or Munro Creek Slate or any limestone bed; in an area of close proximity to a granite pluton; where vein deposits show metal zoning similar to the Cleveland Mine.

7. A circular magnetic anomaly unexplained by surface geology may indicate the presence of a buried granite stock or magnetite present in a contact metamorphic aureole caused by a granite stock.

6. RECOMMENDATIONS

1. Detailed mapping of limestone and dolomite beds to check lateral continuity.

2. An intergrated study comparing soil geochemistry anomalies, Dighem anomalies, V.L.F. anomalies, to:
   a) known outcropping limestone, and dolomite beds and their down dip intersection with faults,
   b) the upper contact of Stitt Quartzite and Munro Creek Slate, and their line intersection with faults.

J. RICHARDSON,
JUNE, 1982

JR/amd

12. 626238

BIBLIOGRAPHY

BLISSET, A.H., 1962 Zeehan, Tasmania Geol. Survey, Exploration Report.

COMPANA, B. & KING, D., 1963 Palaeozoic tectonism, sedimentation and mineralisation in West Tasmania.
Geol. Soc. Australia Jour. V 10, p 1-53.

COLLINS, P.L.F., 1981 The Geol. and Genesis of the Cleveland Tin Deposit Western Tasmania: Fluid Inclusion and Stable Isotope Studies.
Econ. Geol., V 76, num.2, p 365-392.

GREEN, G.R., SOLOMON, M. & WALSH, J.T., 1981
The Formation of the Volcanic-Hosted Massive Sulphide Ore Deposit at Rosebery, Tasmania.
Econ. Geol., V 76, num. 2, p 304-338.

LOFTUS HILLS, G.D., 1964 The Geology of the Dundas-Pieman River Area.
Unpub. B.Sc. thesis, University of Tasmania.

PATTERSON, D.J., OHMOTO, H., SOLOMON, M., 1981
Geologic Setting and Genesis of Cassiterite-Sulphide Mineralisation at Renison Bell, Western Tasmania.
Econ. Geol. V 76, num. 2, p 393-438.

TAYLOR, A.G., 1979 Geology of Tin Deposits, Elsevier Scientific Publishing Company, p 254.

TABLE 1. - A COMPARISON OF CLEVELAND AND RENISON MINE GEOLOGY & RING RIVER GRID GEOLOGY

	RENISON (after Patterson et al 1981)	CLEVELAND (after P.L.F. Collins, 1981)	RING RIVER
Lithology ↑ Youngest	Crimson Creek Formation: volcaniclastic wackes, siltstones, shales.	Crimson Creek Formation: Crescent Spur Sandstone: 350m, turbidite grey fine to medium grained poorly sorted. Quartz feldspar, muscovite in matrix of quartz, chlorite, sericite, clay, also red argillite, grey chert, basalt and volcanoclastic wacke. Footwall to orebody and has quartz, wolframite, molybdenite stockwork. Halls Formation: 100m light to dark grey, purple shales with limestone, chert, greywacke mafic pyroclastic, basalt. - orebodies Deep Creek Volcanics: massive - pillowed basalt intercolated with pyroclastics, red argillite and chert.	Crimson Creek Formation: volcaniclastic wacke fine to coarse grained, to 20% feldspar, lesser quartz in chloritic matrix, also pale green, purple and black shales, and conglomerate. Transition Formation: quartz arenite, quartz lithic wacke, pale green to black shales, siltstones.
Oldest ↓	Success Creek Group No1 Dolomite: extreme alteration, uneconomic mineralisation Red Rock Sequence : quartz sandstones, commonly haematitic No. 2 Dolomite - orebody Renison Bell Shale: thin bedded quartzite, interbeds quartz sandstone, shale, pyritic shale No. 3 Dolomite: orebody Dalcoath Quartzite: thick bedded quartz sandstone, micaceous sandstone siltstone shale.		Rossbery Group: Munro Creek Slate black shales and thin bedded quartz, minor limestone Natone Volcanics: rhyolite flows and crystal tuffs Salisbury Conglomerate: conglomerate minor limestone, dolomite Westcott Argillite: pale green to purple shale and siltstone, quartz feldspar wackes siliceous matrix Stitt Quartzite: thick bedded micaceous quartz arenite (quartz stockwork) and black shale Chamberlain Shale: quartz arenite siliceous siltstone, pale green-purple-black shales
Igneous Rocks	Rine Hill Granite: biotite granite, local greisen alteration in granite and surrounding sediments. Metamorphism towards granite changes from albite epidote to hornblende hornfels with increasing proximity to granite. Biotite extensively developed to within 200m of granite.	Meredith Granite: biotite adamellite with greisen veins and associated quartz porphyry dykes. Metamorphic aureole of albite epidote hornfels and hornblende hornfels extends up to 2.5km away from contact. Magnetite is disseminated throughout the contact aureole. There is no evidence of a contact aureole. at Cleveland Mine.	No acid intrusive rocks outcrop. However a circular magnetic anomaly is unexplained by surface geology and may represent a granite body and magnetic? contact aureole at depth.

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TABLE 1. (Cont.)

	RENISON (after Patterson et al)	CLEVELAND (after P.L.F. Collins, 1981)	RING RIVER
Mineralisation	a) Stratabound, pyrrhotite minor cassiterite, arsenopyrite, quartz, tourmaline, talc, tremolite, siderite, fluorite. Mineralisation occurs at the intersection of the Bassett-Federal Fault and dolomite. b) Fault controlled, veins with extensive or limited wall-rock replacement. Pyrrhotite, cassiterite, arsenopyrite, gangue of quartz, tourmaline, phlogopite, muscovite. c) Late stage veins: calcite, fluorite, quartz, galena, chalcopyrite.	Sub-parallel sulphide lenses in Hall Formation composed of quartz, tourmaline, fluorite, chlorite, pyrrhotite, chalcopyrite, cassiterite, stannite. Stages of Mineralisation: 1) Preore stage - quartz, molybdenum, cassiterite stock work 2) Mineralisation of reverse faults, sulphides lenses + veins surrounding host rock. 3) Epidote, quartz, arseonpyrite, chlorite, fluorite. 4) Fluorite, dolomite calcite. 5) Quartz, pyrite	Numerous small vein deposits. Fahlore Mine & Ring River Valley Mine: jamesonite (46628), galena, chalcopyrite, pyrite, tetrahedrite, siderite. Svengali: chalcopyrite, siderite, quartz Moores Pimple: galena, sphalerite, pyrite, chalcopyrite, zaratite, fuchsite, dolomite. Block 302: pyrite, galena, tetrahedrite (46635) Adit 5,368,100N 374,270E: pyrite (46624) Adit 5,366,260N 373,900E: chalcopyrite-tetrahedrite (46651) *() denotes assay sample number.
Structural Controls	Mineralisation occurs at intersection of dolomite beds and Bassett-Federal Fault, a reverse high angle fault which parallels the major anticlinal axis of the area.	Assent of hydrothermal fluids emanating from Meredith Granite, through fractures and joints and subsequent replacement of limestone beds.	Shear zones - dilation zones? in close proximity to major faults (NE-SW in most cases).
Zoning	Metal zoning within orebody. Cassiterite quartz deposits occur a few kilometres east of Renison in an ENE direction. Minor galena, sphalerite mineralisation occurs 3km NW of Renison - but no well developed Pb-Zn halo	Zonal pattern - concentric zones around the Nadir Fault & quartz, wolframite, molybdenum stockwork central zone; trace Sn . Ore zone: 1% Sn Low Grade zone: 0.1% Sn and increased sphalerite and arsenopyrite. Fourth zone: below fault - increased magnetite actinolite Quartz sulphide veins show host rocks surrounding deposits. A zoning pattern at extremities of ore sphalerite, pyrrhotite, arsenopyrite first appearing 50-60m from orebody and increasing in content away from orebody. Similar pattern for Crescent Spur Sandstone also with increased galena.	

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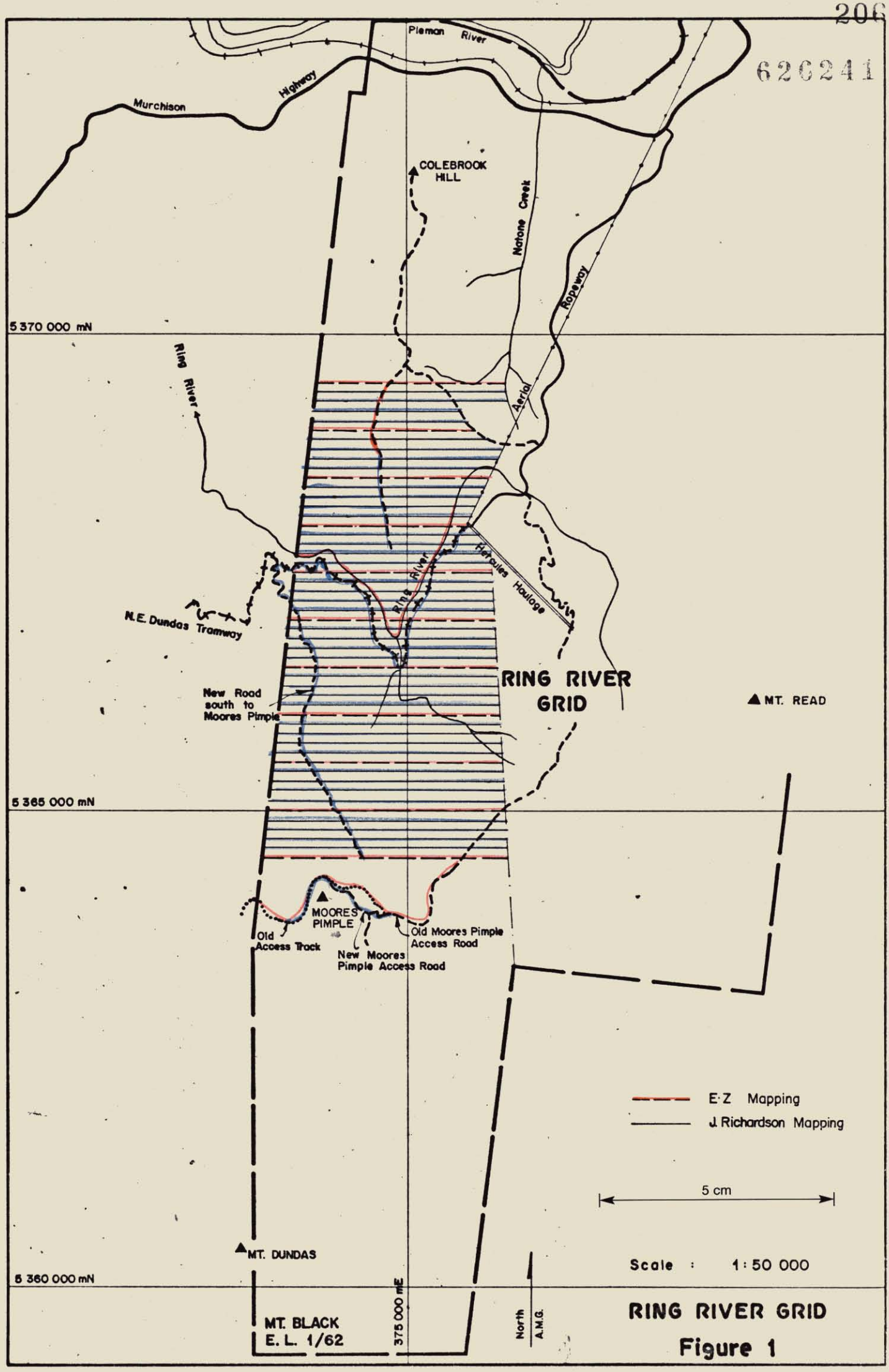
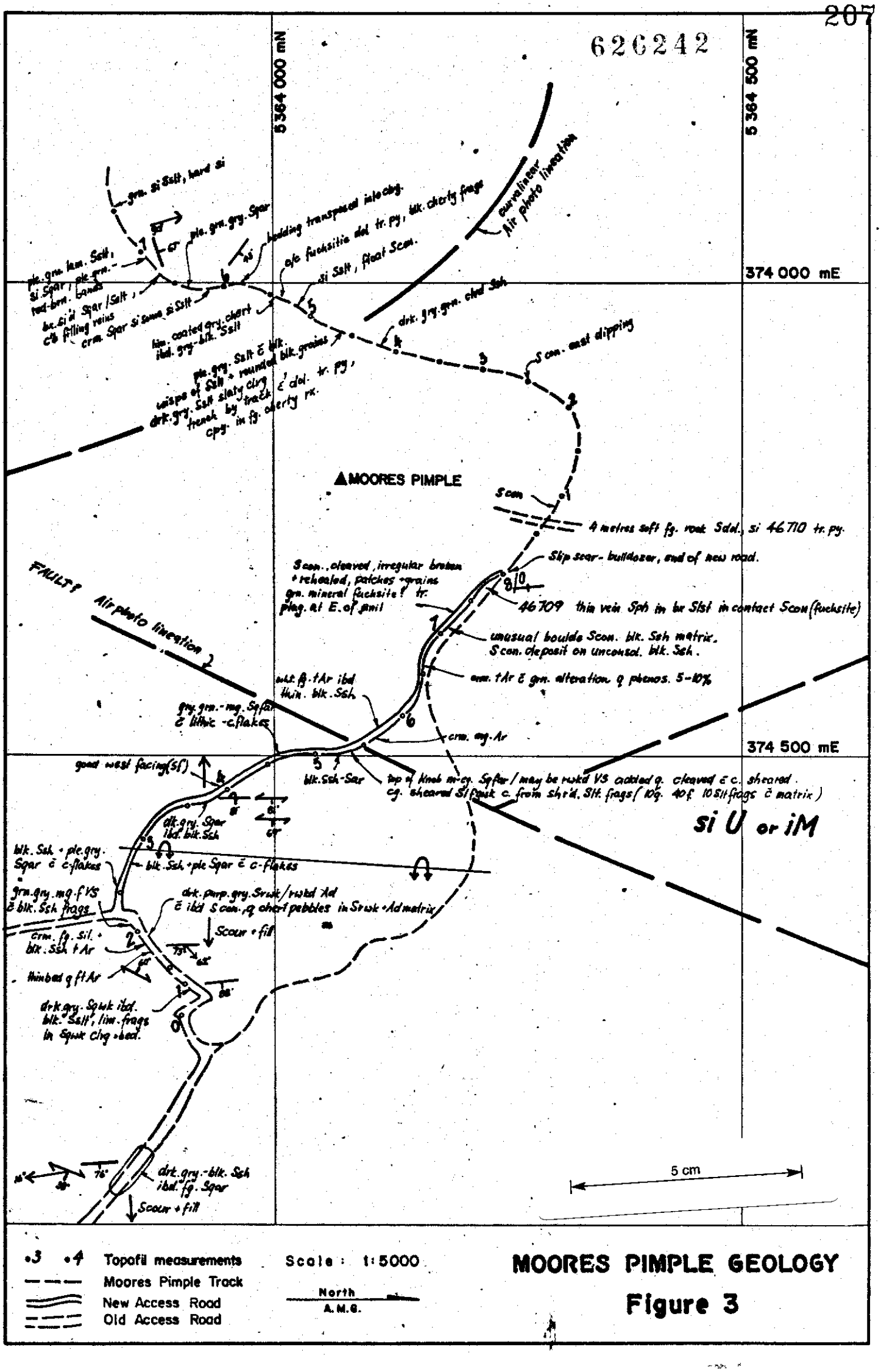

Pieman River
Murchison Highway
COLEBROOK HILL
Natone Creek
Ropeway
5 370 000 mN
Ring River
Aerial
Hercules Haulage
Ring River
N.E. Dundas Tramway
RING RIVER GRID
MT. READ
New Road south to Moores Pimple
5 365 000 mN
MOORES PIMPLE
Old Access Track
New Moores Pimple Access Road
Old Moores Pimple Access Road
E·Z Mapping
J. Richardson Mapping
5 cm
MT. DUNDAS
Scale : 1:50 000
5 360 000 mN
MT. BLACK E. L. 1/62
375 000 mE
North A.M.G.
RING RIVER GRID
Figure 1



MOORES PIMPLE GEOLOGY

Figure 3

373 000 mE

374 000 mE

375 000 mE

376 000 mE

377 000 mE

5 385 000 mN

5 384 000 mN

5 383 000 mN

5 382 000 mN

5 381 000 mN

E.L. 1/62

Montezuma Fault

Curtin Davis Volcanics

Chamberlain

Chamberlain Shale

Stitt Quartzite

Transit

Colebrook Ridge

Fault

Colebrook Hill Serpentinite

Anticlinorium

Ring River

Barrier Creek Fault

Moores Pimple Gabbro

Westcott Qz. Unit

Westcott Argillite

Gonciff Fault

Primrose Pyroclastics

Munro Creek Shale

Quartzite of Westcott Argillite

Fahlore Fault

WEST HERCULES GRID

NORTH HERCULES GRID

LEGEND

SEDIMENTARY ROCK	IGNEOUS ROCK	DEFORMATION	AGE
		Faulting / F_1 Folding / F_2 Folding — Tabberabberan Orogeny	Middle Devonian
	Colebrook Hill Serpentinite Moores Pimple Gabbro		Devonian
	Curtin Davis Volcanics		Mid to late Cambrian
Crimson Creek Formation : volcaniclastic wacke, fine to coarse grained, to 20% feldspar, lesser quartz, in chloritic matrix, also pale green, purple and black shales, and conglomerate			Cambrian
Transition Formation : quartz arenite, quartz lithic wacke, pale green to black shales			
Rosebery Group			
Munro Creek Slate : black shales and thinbedded quartz arenite, minor limestone	Primrose Pyroclastics		
Natone Volcanics : rhyolite flows and crystal tuffs	Natone Volcanics		
Salisbury Conglomerate : conglomerate minor limestone			
Westcott Argillite : pale green to purple shale and siltstone, quartz feldspar wackes - siliceous matrix	Rhyolite Tuffs (unassigned)		
Stitt Quartzite : thick bedded micaceous quartz arenite, black shale			
Chamberlain Shale : quartz arenite, siliceous siltstone, pale green purple - black shales			

5 cm

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RING RIVER

SPECIAL SHEET

626243

INTEPRETED GEOLOGY

SCALE 1:5000	Survey J.R.	Revised:
Reference:	Date 20.8.1982	A0-504-0292
Drawn Nik	Checked:	Figure 2

370000 mE

380000 mE

390000 mE

5380000 mN

5370000 mN

5360000 mN

BURNS PEAK

RAILWAY

BAY

Mackintosh River

Lake Mackintosh

FARRELL MINE

TULLAH

MT FARRELL

EMU

MRP 227
MRP 226

Sterling Valley E.L. 4/73

MT BLACK

MRP 233
MRP 212
MRP 219

Pieman River

MURCHISON

ROSEBERY

HIGHWAY

Sterling River

Murchison River

CHP 229
CHP 230
CHP 228
CHP 236
CHP 237
CHP 238
MRP 236

MT MURCHISON

Stitt

TERRAL ROPEWAY

WILLIAMSFORD

E.L. 1/62

River

BOUNDARY OF
SOUTH WEST TASMANIA
CONSERVATION AREA

MT. READ

JCP 211

JCP 216

MOORES PIMPLE

JCP 235

Dobson Creek

Jones Creek

White Spur Ck

MT. DUNDAS

626244

5 cm

LEGEND

- Road
- Creek Cut.
- Line Cut, Pegged, Soil Sampled
- Line Cut, Pegged, Ground Magnetics
- Soil Pit Dug and Sampled
- Magnetic Interpretation
- MRP 31 → Diamond Drillhole completed
- Heavy mineral concentrate Sample
- Ground Magnetics
- Line Cut
- Line Pegged
- Line Soil Sampled
- Line Geology Mapped
- Line V.L.F. E.M.
- Creek Mapped and Stream Sediment Sampled
- Access Mapping Completed
- Line Dipole-Dipole I.P.
- Vehicle Track
- Walking Track
- Railway
- Abandoned Tramway
- Transmission Line
- Grid Line

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: MT. BLACK | TAS.

WORK COMPLETED DURING

5.5.1982 - 20.11.1982

SCALE 1 : 50,000	REVISED : 6.12. 1982	REFERENCE NO.
REFERENCE		
DATE : 29.5.80	DRAWN : R.P.T.	A2 - 504 - 0016

001

GEOLOGICAL PLAN OF HOLE LOCALITY DOBSONS CREEK

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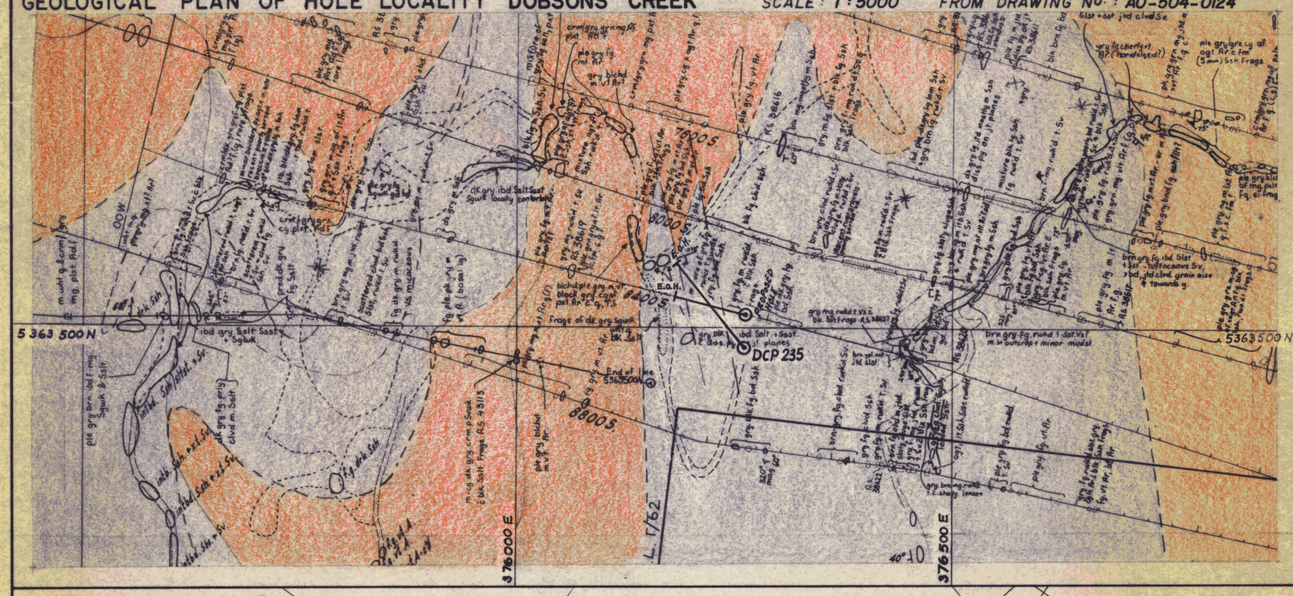

PLAN OF DRILLHOLE

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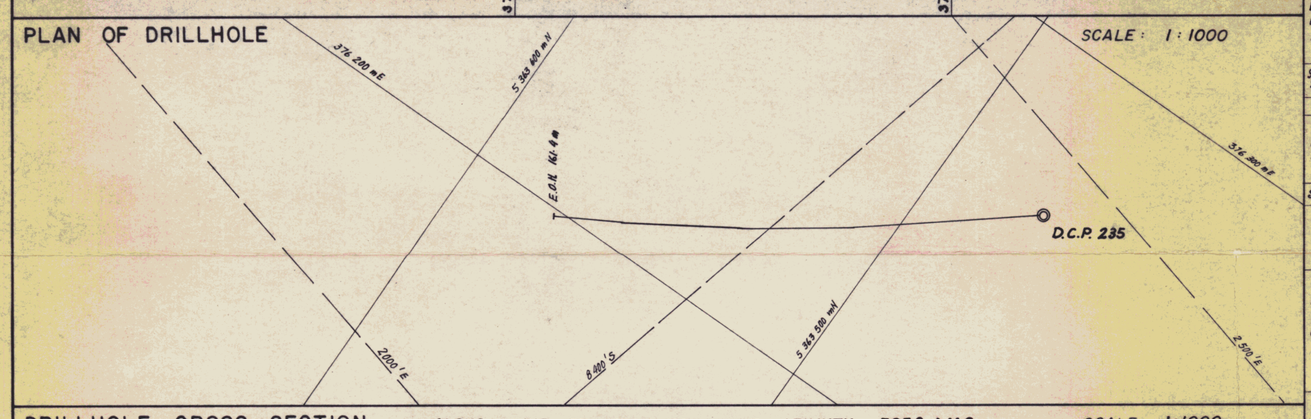
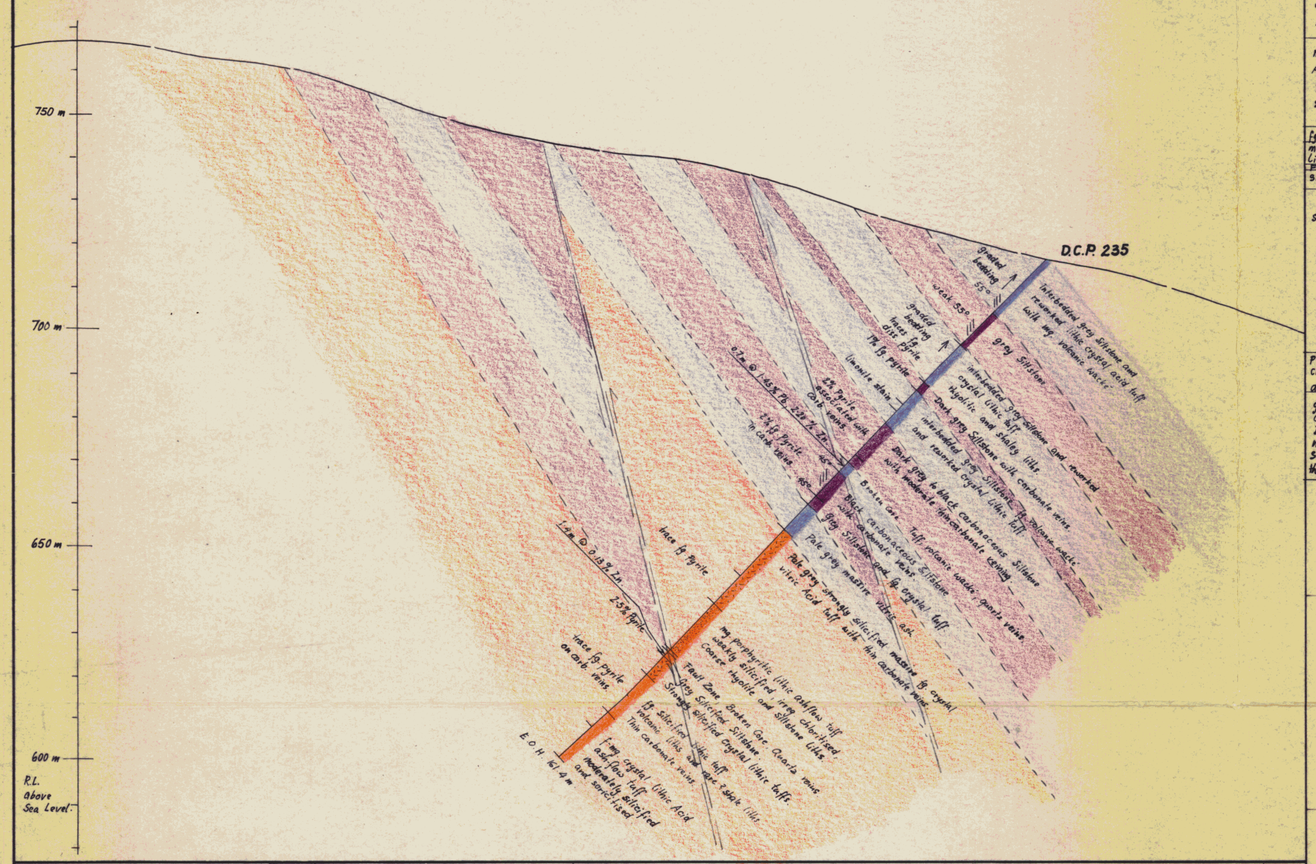


DRILLHOLE CROSS SECTION

ALONG LINE OF MEAN DRILLHOLE AZIMUTH - 325° A.M.G. SCALE : 1:1000


750 m
700 m
650 m
600 m
R.L. Above Sea Level
D.C.P. 235
Interbedded grey Siltstone and mudstone with fg. volcanic wacke
grey Siltstone
Interbedded grey siltstone and reworked crystal lithic tuff, hyalite and shaley lithic
Dark grey Siltstone with carbonate veins
Interbedded grey Siltstone and reworked crystal lithic tuff
Dark grey & black carbonaceous Siltstone with moderate disseminated pyrite
Broken Core. Tuff, volcanic wacke, quartz veins
Dark carbonaceous Siltstone with disseminated pyrite
Pale grey & black carbonaceous Siltstone with carbonate veins
Pale grey strongly silicified massive fg. crystal vitric Acid tuff with thin carbonate veins
Fg. Porphyritic lithic ashflow tuff, locally silicified with chlorite
Coarse rhyolite and siltstone lithic
Fault Zone. Broken Core. Quartz veins
Shaley Siltstone
Strongly silicified Crystal lithic tuff
Siltstone lithic tuff
Thin carbonate veins
Fg. crystal lithic Acid tuff, moderately silicified and sericitised
E.O.H. 161.4m
Trace fg. pyrite
2.5% Pyrite
Trace fg. pyrite on chlorite veins
Trace fg. pyrite
Trace fg. pyrite on carb. veins
Trace fg. pyrite in carb. veins
Trace fg. pyrite
Trace fg. pyrite on carb. veins
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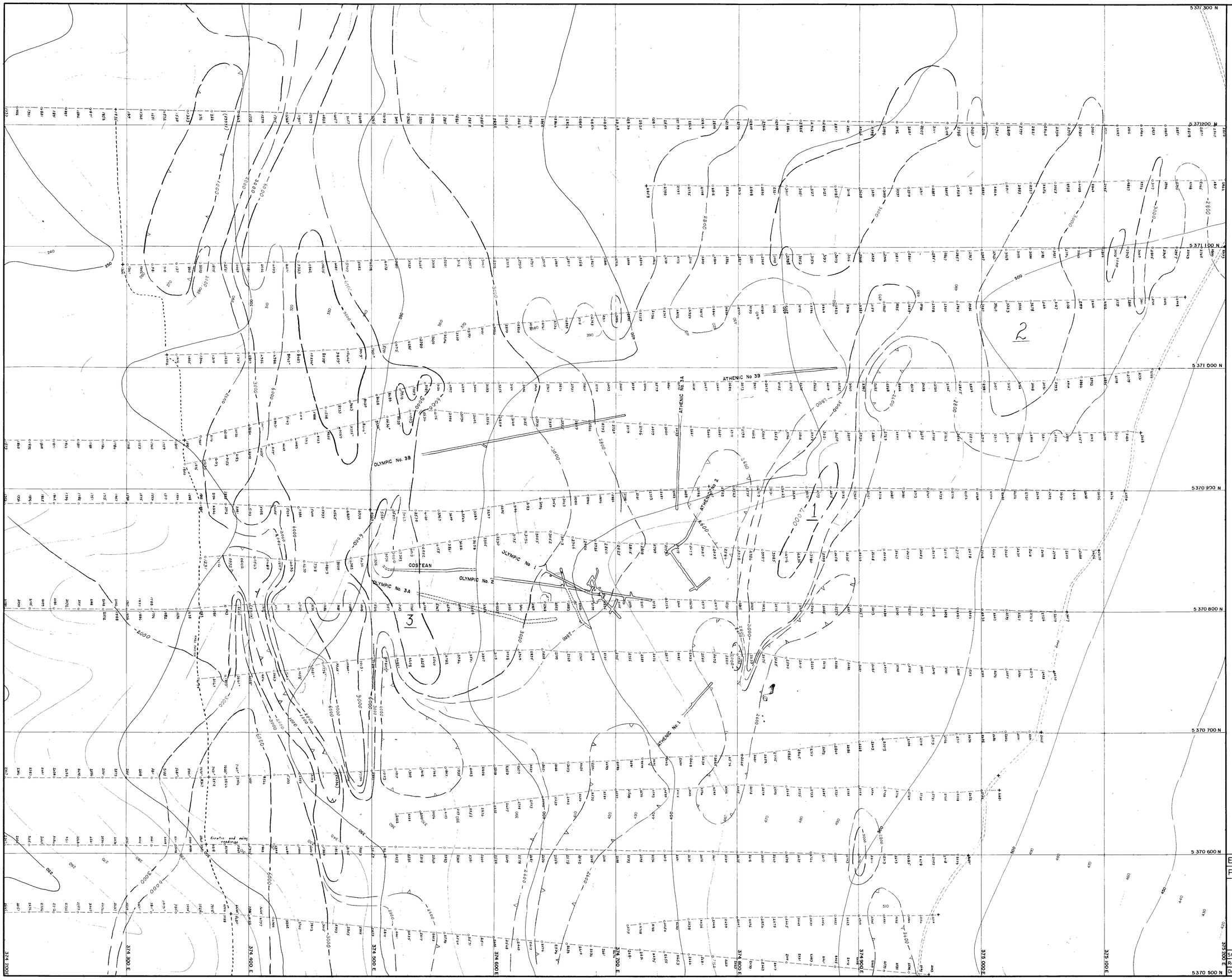

NOTES

Base derived from survey by W Moyle 1982 (Chain, Compass & Clinometer)

Contours at 10m interval sketched from 1 10 000 scale plans with limited ground survey control

LEGEND

+ Grid peg – position surveyed

○ Grid peg – position interpolated

626246

5cm

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OLYMPIC - ATHENIC MINE AREA

GROUND MAGNETICS

SCALE	1:1000	Survey	I. Mat.	Revised:	
Reference:		Date	30.7.1982	REF NO	
Drawn	Nik I.Mat	Checked		AO - 504 - 0288	

003

EZ PLAN CABINET TRIM LINE

GEOLOGICAL PLAN OF HOLE LOCALITY

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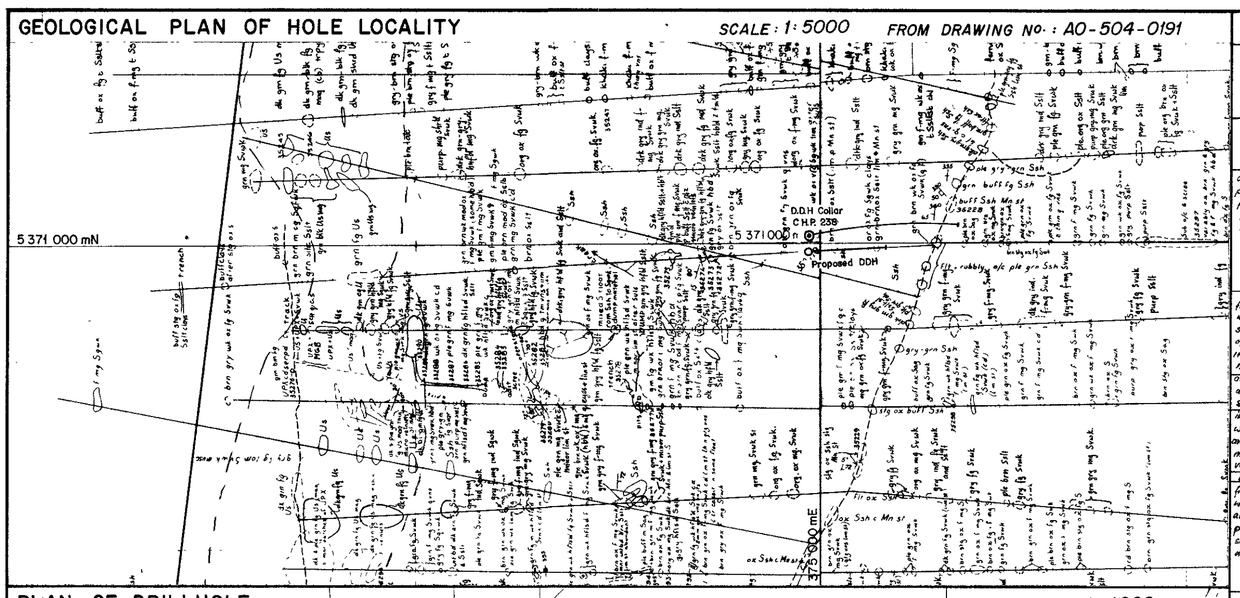
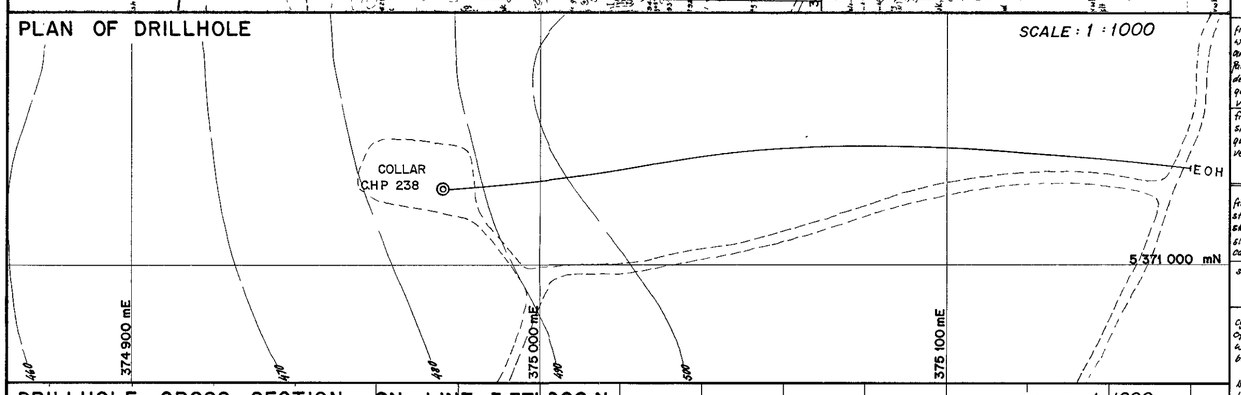


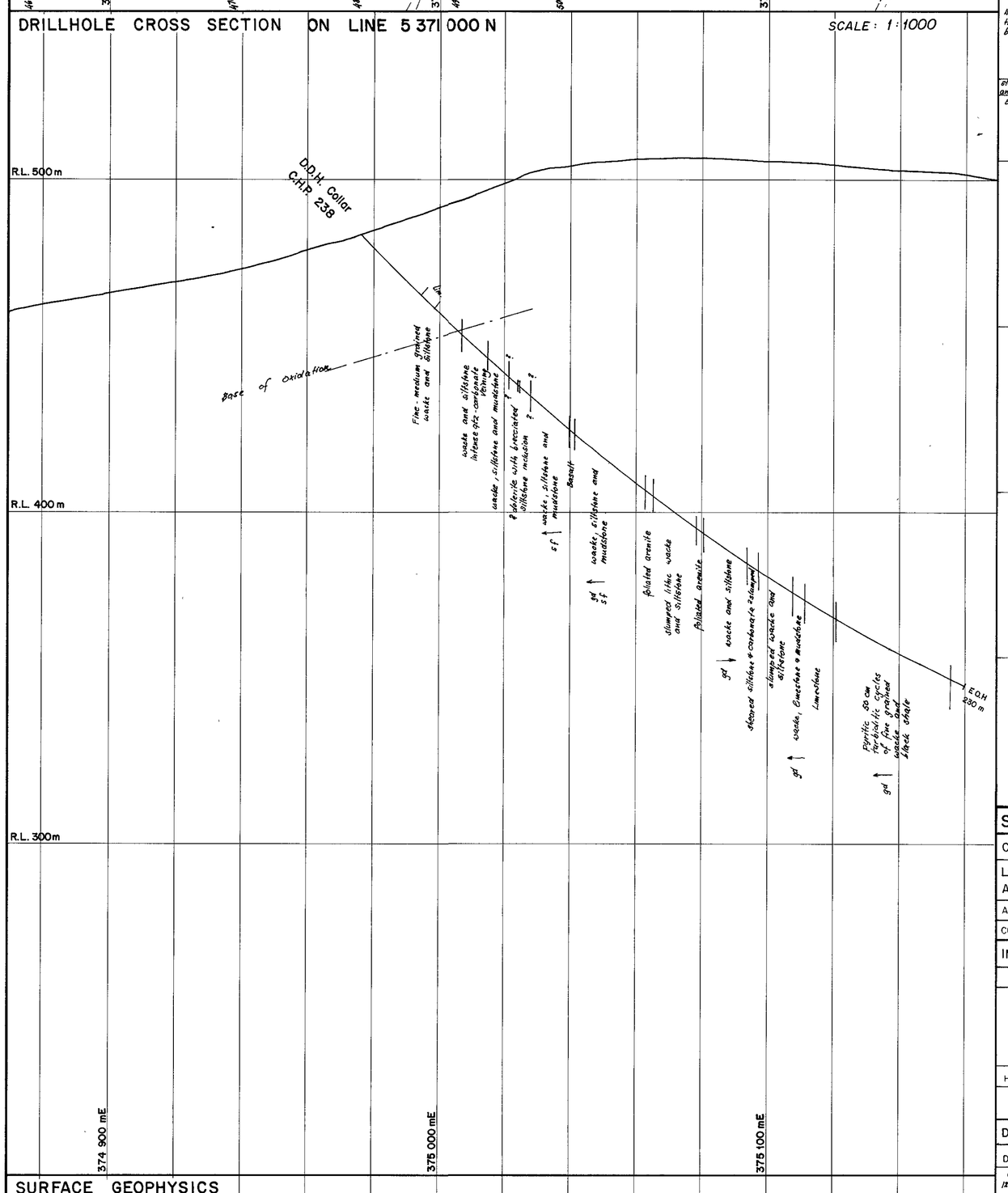
PLAN OF DRILLHOLE

SCALE : 1 : 1000



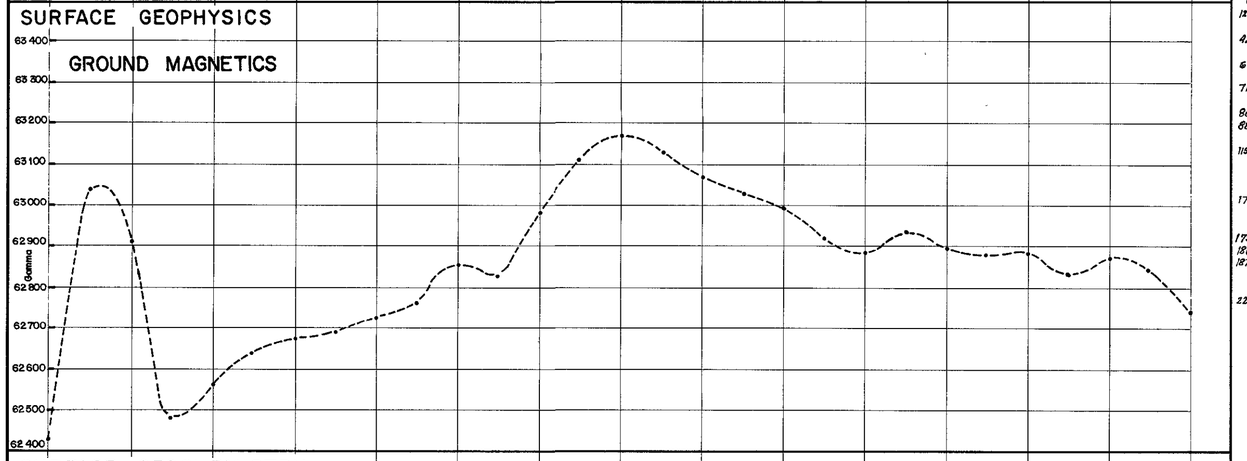
DRILLHOLE CROSS SECTION ON LINE 5 371 000 N

SCALE : 1 : 1000



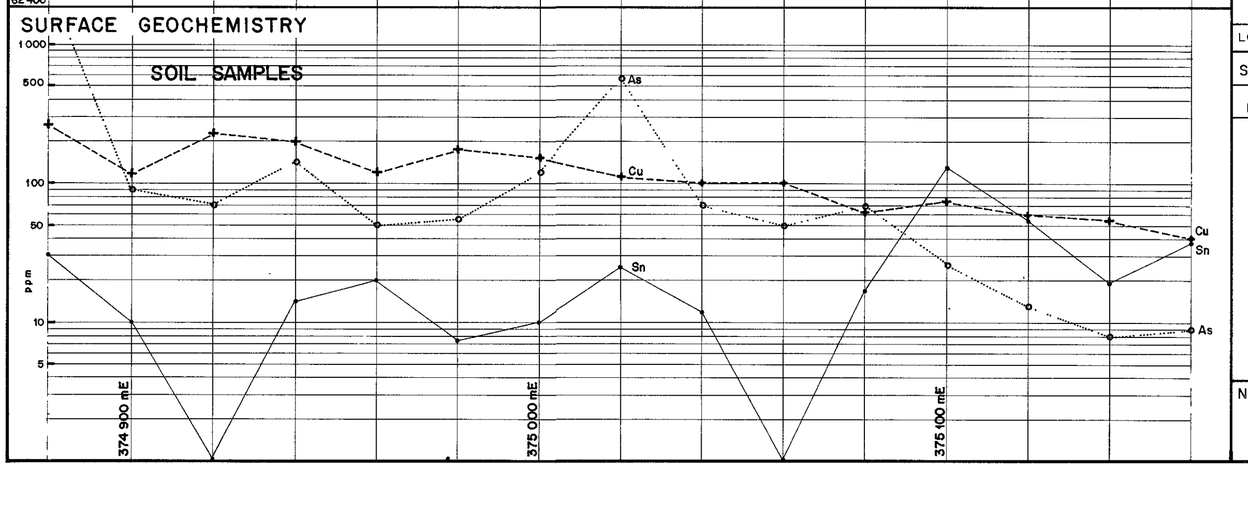
SURFACE GEOPHYSICS

GROUND MAGNETICS



SURFACE GEOCHEMISTRY

SOIL SAMPLES



DOWN HOLE INFORMATION

Lithology	Mineral'n	Depth (m)
NON CORE	DRILLING	0
oxidized and partially oxidized fine grained wacke and siltstone	limonitic veins and iron staining	
fine grained wacke and siltstone, zones of intense but irregular carbonate veining	py veinlets	50
	5 cm mag + po	
	5% diss po	
Altered dolomite and included siltstone	5% diss po	
interbedded wacke, siltstone and mudstone, minor carbonate veining	~ 10% disseminated pyrrhotite	
fine-medium lithic wacke, siltstone and mudstone patches of soft sediment deformation	~ 10% dissem. pyrrhotite minor chalcopyrite	100
	5 cm po + cp	
	5-10% disseminated pyrrhotite	
fine-medium wacke, siltstone and foliated arenite flecked soft sediment deformation, irreg quartz carbonate veins		150
fine wacke and siltstone, irregular quartz carbonate veins	30 cm po + cp	
carbonate		
fine wacke, siltstone and mudstone, often dismembered with carbonate veins	10-20% po veinlets + diss. dissem. mag	
stylolitic Limestone	~ 20 % po	200
cyclic units of fine grained wacke to black shale	Scattered thin pyrite beds and pyrrhotite bands	
numerous thin pyritic beds	~ 20% po	
	10-20% po in veins and bands	
slumped wacke and black shale	N V M	250
E O H 230 m		

GEOCHEMISTRY

GEOPHYSICS

Magnetic Susceptibility (10^{-3} c.g.s. units) 0 1 2 3 4 5 6 7 8 9 10

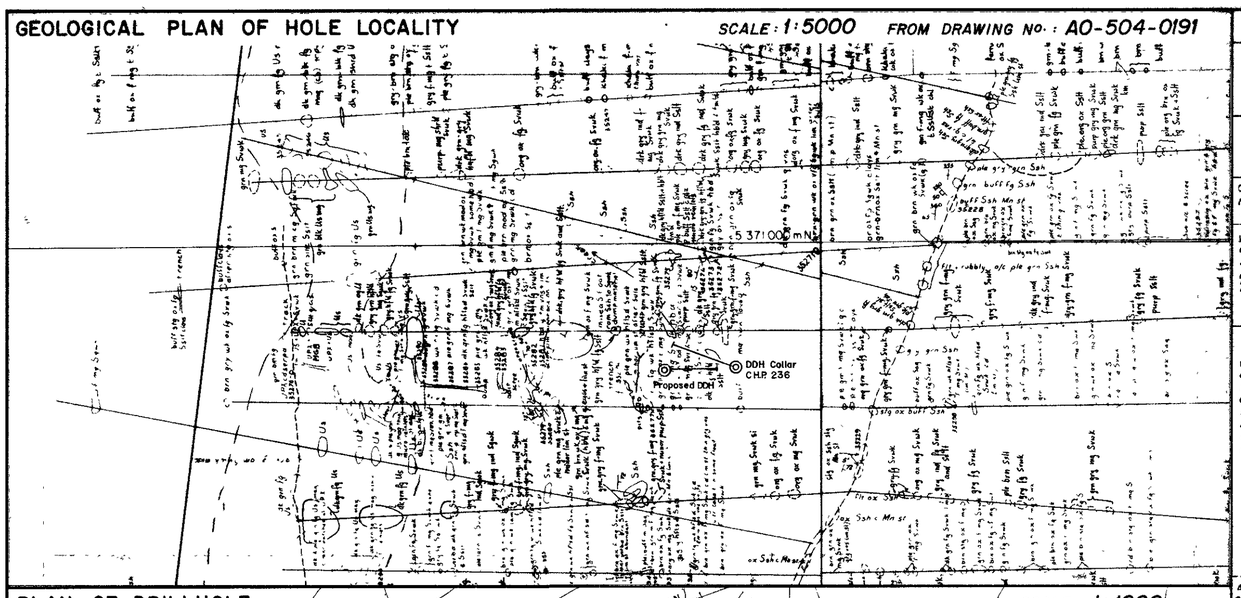
0.05

0.05

0.05

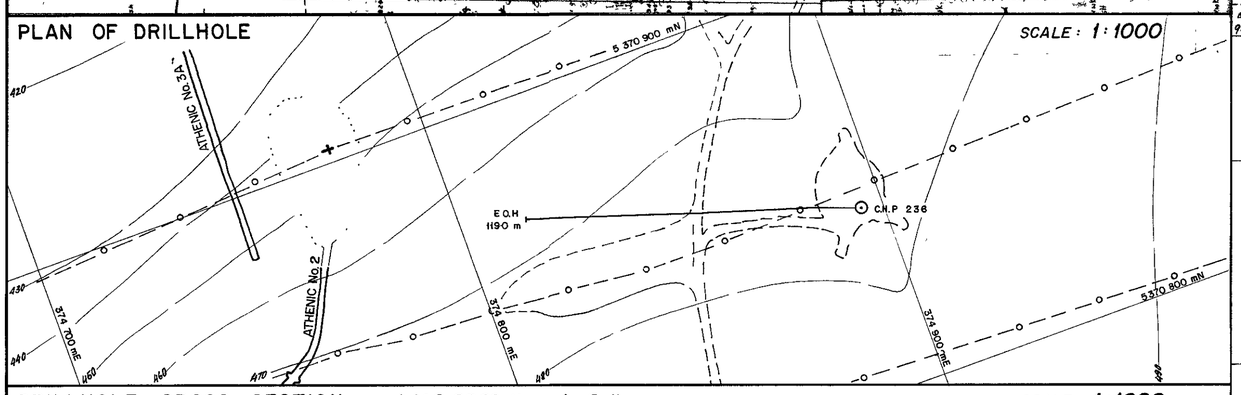
GEOLOGICAL PLAN OF HOLE LOCALITY

SCALE: 1:5000 FROM DRAWING NO.: AO-504-0191



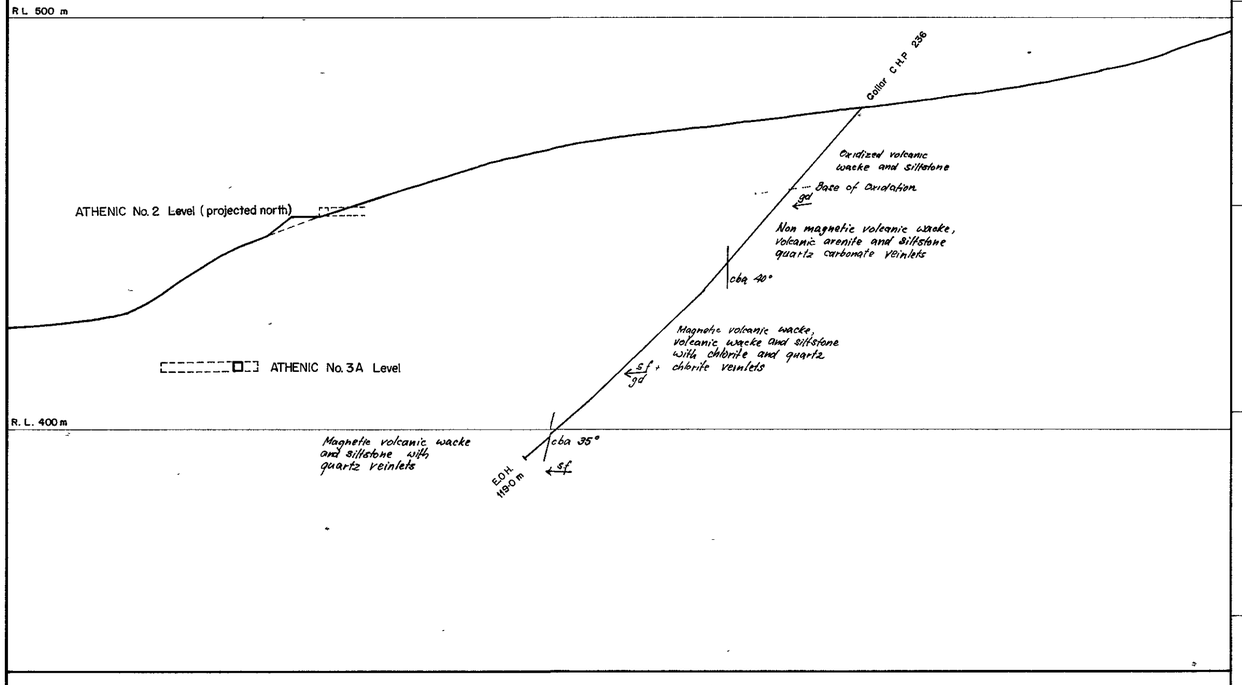
PLAN OF DRILLHOLE

SCALE: 1:1000

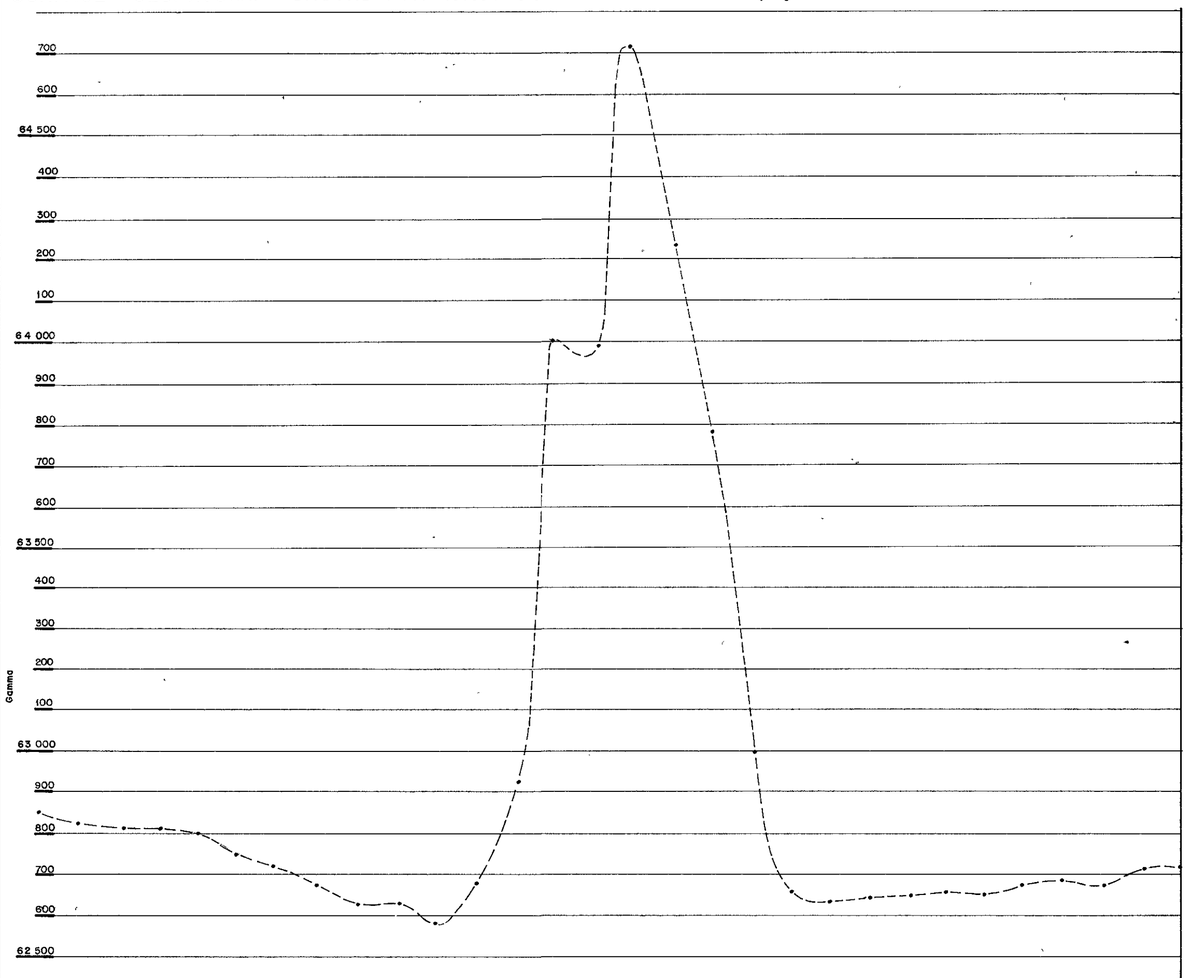


DRILLHOLE CROSS SECTION on A.M.G. 290° through Collar

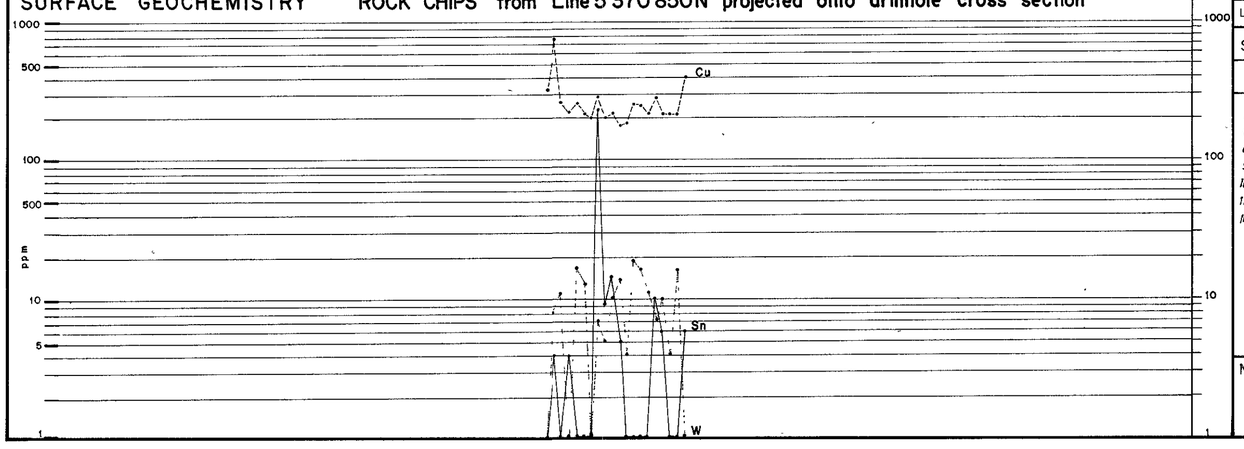
SCALE: 1:1000



SURFACE GEOPHYSICS GROUND MAGNETICS from Line 5 370 850 N projected onto drillhole cross section



SURFACE GEOCHEMISTRY ROCK CHIPS from Line 5 370 850N projected onto drillhole cross section



DOWN HOLE INFORMATION

Lithology	Mineral'n	Depth (m)
Non Core Drilling		0
Oxidized volcanic wacke and Siltstone		
Volcanic wacke, arenite and siltstone with quartz carbonate veining	Thin py, asp, cp. veins.	50
Volcanic wacke, volcanic arenite and Siltstone, with chlorite and veinlets.	Thin cp, py Vein	
	Minor pyrite and trace chalcopyrite with chlorite or quartz.	100
as above qtz veinlets.	thin py cp vn.	
E.O.H. 119 m		150
		200
		250
		300
		350
		400

GEOCHEMISTRY

GEOPHYSICS

Magnetic Susceptibility (10^{-3} c.g.s units)

0 2 4 6 8 10 12 14 16 18 20

Pb — Zn — Cu — Sn

Resistivity
Chargeability
Magnetic Susceptibility

SUMMARY OF COMPLETED HOLE

CO-ORDINATES	NORTHING	EASTING	R.L.
LOCAL GRID A.M.G.	5 370 875 N	374 895 E	

AZIMUTH 290° A.M.G. DIP 48° TOTAL DEPTH 119 m.

COMMENCEMENT DATE 22.10.1982 COMPLETION DATE 29.10.1982

INTERNAL SURVEY INFORMATION

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
41 m	287°	48°			
77 m	288°	43 5°			
119 m	288	41°			

HOLE SIZE	FROM	TO	HOLE SIZE	FROM	TO
NQ	0	15 m	BQ	36	119 m
NQ	15	36 m			

DRILLED GEOLOGY (SUMMARISED)

DEPTH	LITHOLOGY	DEPTH	MINERALISATION AND SIGNIFICANT ASSAYS
0-15 0 m	Non core drilling		
15 0-26 0 m	Oxidized and partially oxidized coarse-medium grained volcanic wacke and siltstone	23 0-26 0	1% Disseminated pyrite
26 0 m	Base of Oxidation		
26 0 - 50 9 m	Dark grey to green grey fine to medium grained volcanic wacke, arenite and siltstone. Patches brecciated, rehealed with quartz carbonate vns. Consistent west facings	45 30 m 45 40 m	1 cm Quartz + chalcopyrite vein 2 cm quartz + arsenopyrit + pyrite vein.
50 9 - 111 9	Dark green grey to green grey fine to coarse grained volcanic wacke, Volconic arenite and siltstone with common chlorite veinlets. Arenites and wackes distinctly magnetic. Consistent west facings	66 50 m	2 cm quartz + magnetite + pyrite + chalcopyrite
		71 0 - 100 0	very minor pyrite and trace chalcopyrite in chlorite veinlets
		107 20	Several large pyrite crystals
111 9 - 119 0	Fine to medium grained volcanic wackes and disrupted siltstone beds. Quartz veins and veinlets	112 0 - 119 0	Minor pyrite and trace, chalcopyrite associated with quartz

LOGGED BY: DATE

SAMPLE DATA

SAMPLED INTERVAL (m)	SAMPLE NUMBERS	SAMPLE TYPE	ELEMENTS DETERMINED	LAB. METHOD
15 00 - 66 00	43558 - 43572	GRIND or CHIP	Cu, Pb, Zn	A A S
66 00 - 67 00	43573	SPLIT	Fe, Mn, Ag,	
67 00 - 98 00	43574 - 43580	GRIND or CHIP	Cr, As	
98 00 - 100 00	43581 - 43582	SPLIT		
100 00 - 115 00	43583 - 43586	GRIND or CHIP		
115 00 - 116 00	43587	SPLIT		
116 00 - 119 00	43588	GRIND or CHIP	Sn, W	X. R. F.

NOTES:

SPECIFICATIONS OF PROPOSED HOLE

CO-ORDINATES	NORTHING	EASTING	R.L.
LOCAL GRID A.M.G.	5370 850 N	374 815 E	473 m

AZIMUTH 090° A.M.G. DIP 50° DESIGNED DEPTH 120 m

ESTIMATED COMMENCEMENT:

ANTICIPATED GEOLOGY

DEPTH	LITHOLOGY	DEPTH	NATURE OF TARGET AND ANTICIPATED DEPTH
0-120 m	Incipiently hornfelsed volcanic wackes and siltstones	60-90m	Pyrrhotite replacement containing cassiterite and possibly arsenopyrite

DESIGNED BY I. J. Mathison DATE 30. 8. 1982

AIM OF HOLE:

To test a magnetic anomaly in the vicinity of known tin mineralisation

NOTES:

5 cm

PROVISIONAL PLAN ONLY

626248

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: MT. BLACK TAS.

SPECIFICATIONS AND SUMMARY OF RESULTS

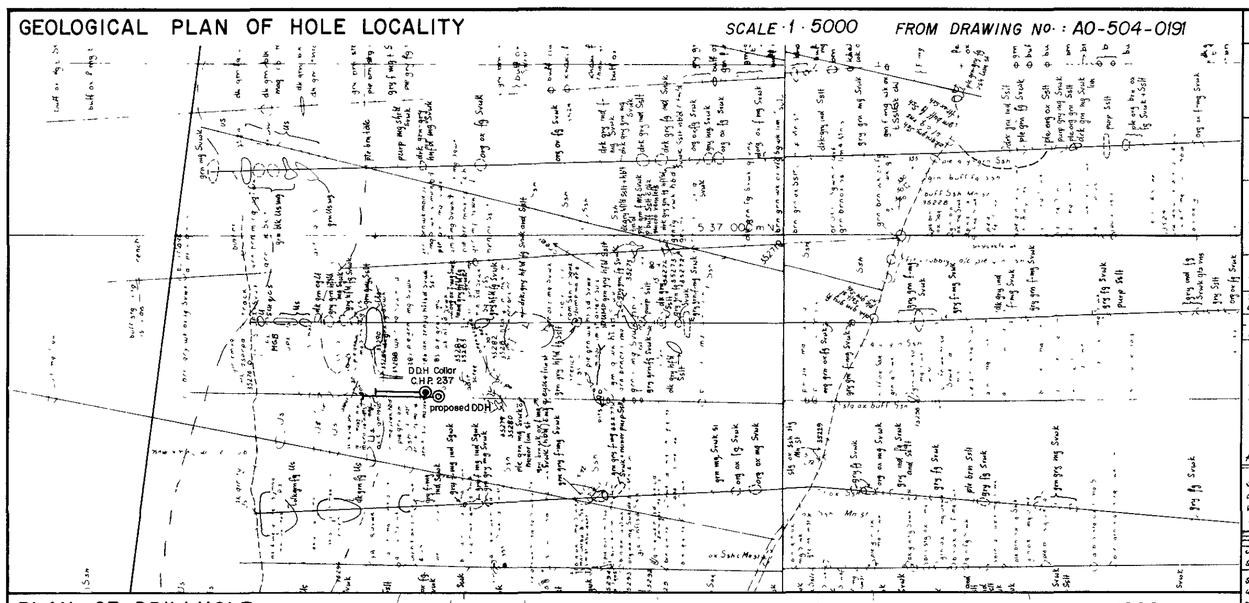
EXPLORATION DIAMOND DRILL HOLE No. C.H.P. 236

SCALE: As shown	Survey: I. J. Mat.	Revised:
Reference:	Date: 16. 11. 1982	REF. No. A1 - 504 - 0312
Drawn: Nik	Checked:	

005

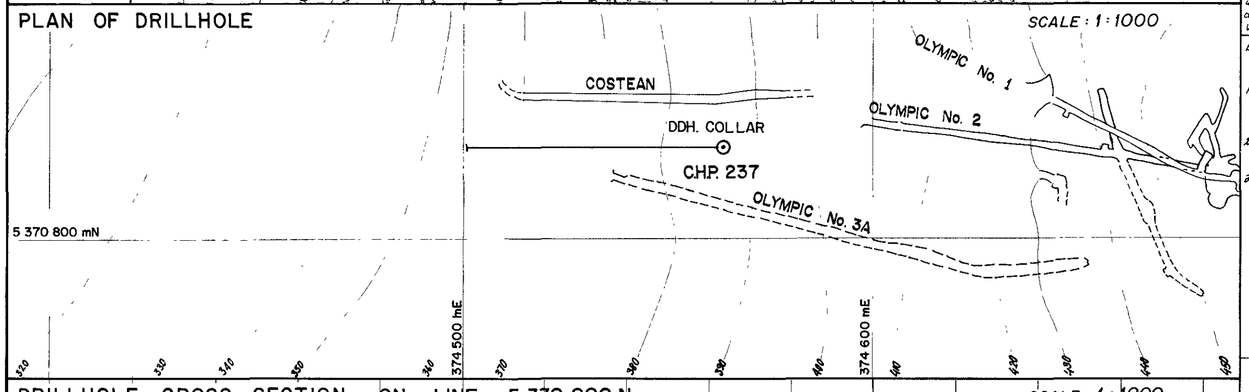
GEOLOGICAL PLAN OF HOLE LOCALITY

SCALE 1 : 5000 FROM DRAWING NO. : A0-504-0191



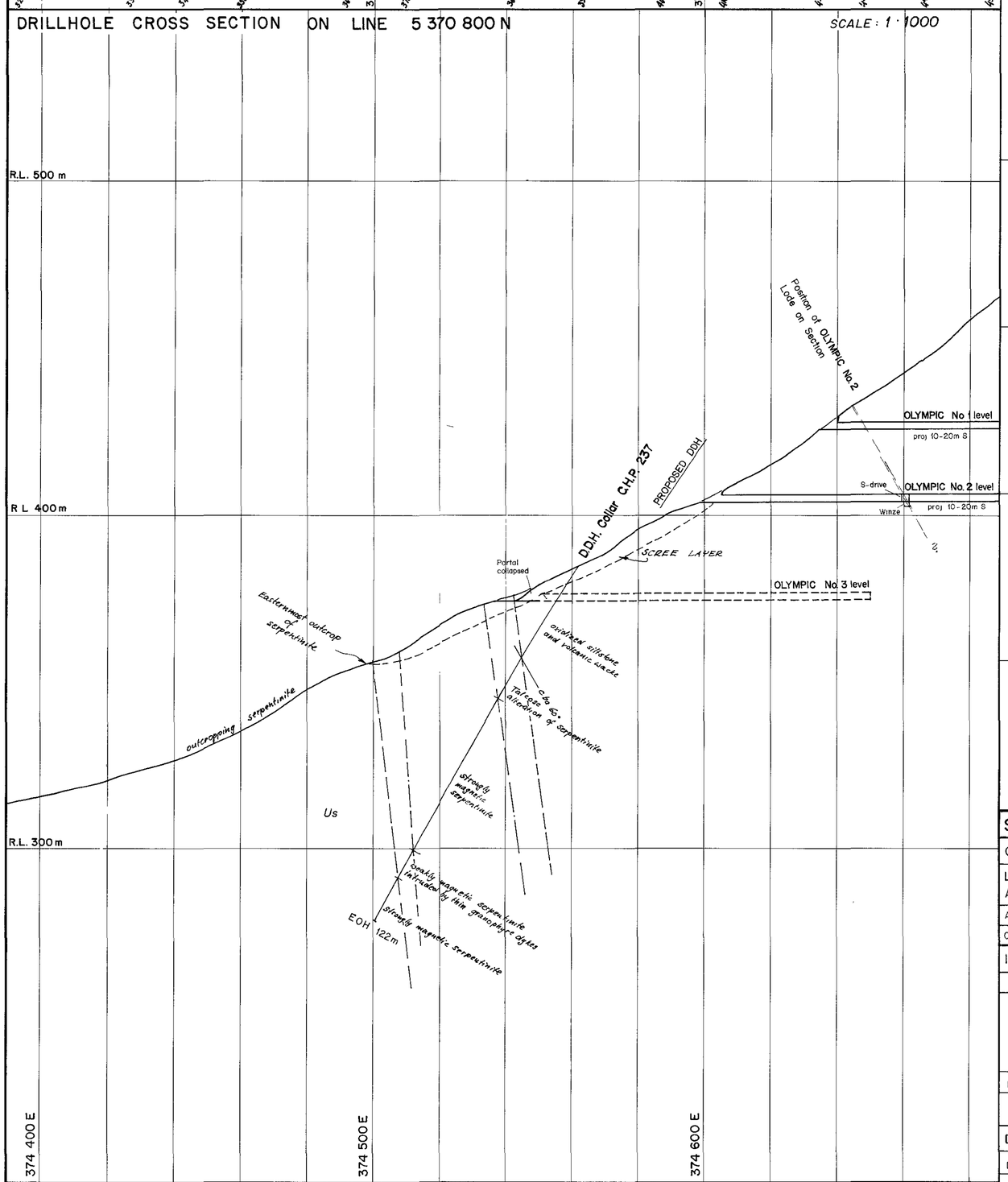
PLAN OF DRILLHOLE

SCALE : 1 : 1000



DRILLHOLE CROSS SECTION ON LINE 5 370 800 N

SCALE : 1 : 1000



SURFACE GEOPHYSICS

GROUND MAGNETICS

SURFACE GEOCHEMISTRY

SOIL SAMPLES

DOWN HOLE INFORMATION

Lithology	Mineral'n	Depth (m)	GEOCHEMISTRY	GEOPHYSICS
NON CORE	DRILLING	0		
oxidized volcanic wacke and siltstone				
brown and yellow talcose clay				
talcose-calcite altered serp				
altered serpentinite		50		
serpentinite with magnetite veinlets				
thin granophyre				
serpentinite with magnetite veinlets & weakly magnetic		100		
weakly magnetic serpentinite				
serpentinite with asbestos and magnetite veinlets				
EOH 122 m				
Note 1 altered granophyre		150		
2 altered serpentinite				
3 altered granophyre				
		200		
		250		
		300		
		350		
		400		

Pb ——— Zn - - - - - - Cu — — — —
Mn — — — Fe -·-·-·-

Resistivity ------
Chargeability ———
Magnetic Susceptibility

SUMMARY OF COMPLETED HOLE

CO-ORDINATES	NORTHING	EASTING	R L.
LOCAL GRID A.M.G.	5 370 812 N	374 562 E	

AZIMUTH 270° A.M.G DIP 58° TOTAL DEPTH 122 m

COMMENCEMENT DATE 30 10 1982 COMPLETION DATE 6.11 1982

INTERNAL SURVEY INFORMATION

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
62 m	? 278°AMG ?	60 5°			
122 m	? 285°AMG ?	61°			

HOLE SIZE	FROM	TO	HOLE SIZE	FROM	TO

DRILLED GEOLOGY (SUMMARISED)

DEPTH	LITHOLOGY	DEPTH	MINERALISATION AND SIGNIFICANT ASSAYS

LOGGED BY DATE

SAMPLE DATA

SAMPLED INTERVAL	SAMPLE NUMBERS	SAMPLE TYPE	ELEMENTS DETERMINED	LAB. METHOD

NOTES.

SPECIFICATIONS OF PROPOSED HOLE

CO-ORDINATES	NORTHING	EASTING	R.L.
LOCAL GRID A.M.G	5 370 800N	374 580 E	395 m

AZIMUTH 270° nom. A.M.G. DIP 55° DESIGNED DEPTH 150 m

ESTIMATED COMMENCEMENT

ANTICIPATED GEOLOGY

DEPTH	LITHOLOGY	DEPTH	NATURE OF TARGET AND ANTICIPATED DEPTH
0-100 m	Slightly hornfelsed volcanic wackes and siltstones	100-130 m	Pyrrhotite replacement of altered ultra mafic
100-130 m	Carbonatized ultra mafics		
130-150 m	Serpentinized ultra mafics		

DESIGNED BY I. J Mathison DATE 30 8 1982

AIM OF HOLE:

To test a zone of coincident V.L.F., E.I.P. and magnetic anomalies flanking the serpentinized ultra mafics close to known cassiterite mineralization

NOTES:

5 cm

PROVISIONAL PLAN ONLY

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: MT. BLACK TAS.

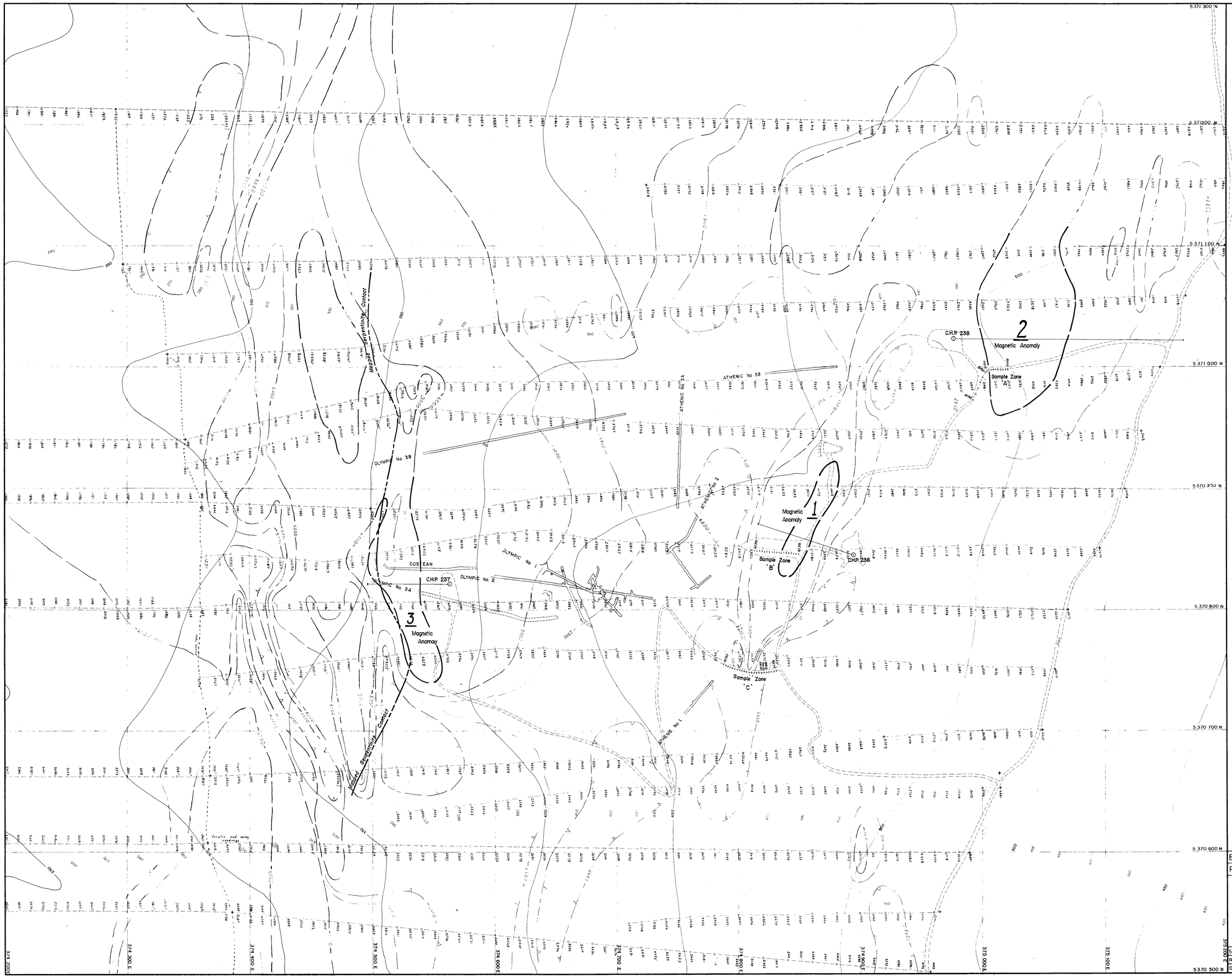
SPECIFICATIONS AND SUMMARY OF RESULTS

EXPLORATION DIAMOND DRILL HOLE No. C.H.P. 237

626249

SCALE : As shown	Survey: I. Mat.	Revised:
Reference:	Date: 1.12.1982	REF. No. A1 - 504 - 0314
Drawn: Nik	Checked:	

006



NOTES

Base derived from survey by W. Moyle 1982 (Chain Compass & Clinometer)
Contours at 10m interval sketched from 1:10,000 scale plans with limited ground survey control

LEGEND

+ Grid peg - position surveyed
o Grid peg - position interpolated

5 cm

ELECTROLYTIC ZINC CO OF A ASIA LTD

PROJECT: MT. BLACK | TAS.

626250

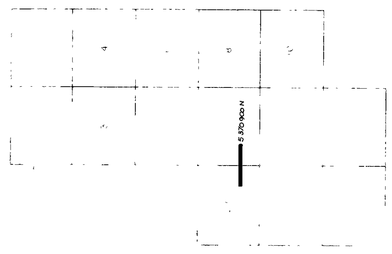
OLYMPIC - ATHENIC
MINE AREA

DRILL HOLES and
SAMPLING LOCATIONS

SCALE	1:1000	Survey	I. Mat	Revised
Reference		Date	26.11.1982	REF NO
Drawn	Nik, I. Mat	Checked		AO - 504 - 0310

007

E Z PLAN CABINET TRIM LINE



LINE NO. **5 370 900** m. N.
BETWEEN **374 360** mE and **375 745** mE

GRID : COLEBROOK HILL
AZIMUTH **NOMINAL A.M.G.**

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT : MT. BLACK E.L. 1/62 TAS.

LINE PROFILES

626251

SCALE 1 5000	REVISED	REF NO.
DRAWN NIK	DATE 10. 3. 1982	A0 - 504 - 0213

800

374 000 E 374 500 E 375 000 E 375 500 E 376 000 E 376 500 E

5 cm

GROUND — MAGNETICS

DIPOLE — DIPOLE

Survey by
Date
Receiver
Pulse
Spacing

RESISTIVITY Ω m

RESISTIVITY Ωm

CHARGEABILITY mV/V

CHARGEABILITY mV/V

GEOCHEMISTRY

Pb
Zn
Cu

Zn
Cu
Pb
Zn
Pb
Cu
Zn, Pb
Pb
Cu

GEOCHEMISTRY

Cr
As
Sn

Cr
As
Cr
Cr
As
As
Sn
Sn

TOPOGRAPHY + GEOLOGY

SECTION

R.L. 800
R.L. 600
R.L. 400
R.L. 200

374 000 E 374 500 E 375 000 E 375 500 E 376 000 E 376 500 E

C.H.P 238 projected 120 m SW
C.H.P 236 projected 50 m NW
C.H.P 237 projected 75 m NW

CRIMSON CREEK FORMATION
Volcanic wacke (Basic volcanic fragments, Plagioclase and some detrital magnetite)
Siltstone (purple, dark green and grey)

TRANSITION FORMATION
Lithic wacke (quartz poor)
Limestone
Siltstone (purple, dark green, grey)
Cyclic Turbidites (fine wacke to black shale plus pyrite)

ROSEBERY GROUP SEDIMENTS
Quartz arenite
Quartz-lithic wacke
Siltstone
Black Shale

DUNDAS GROUP SEDIMENTS
Greywacke Conglomerate
Quartz-Lithic wacke
Laminated Siltstone

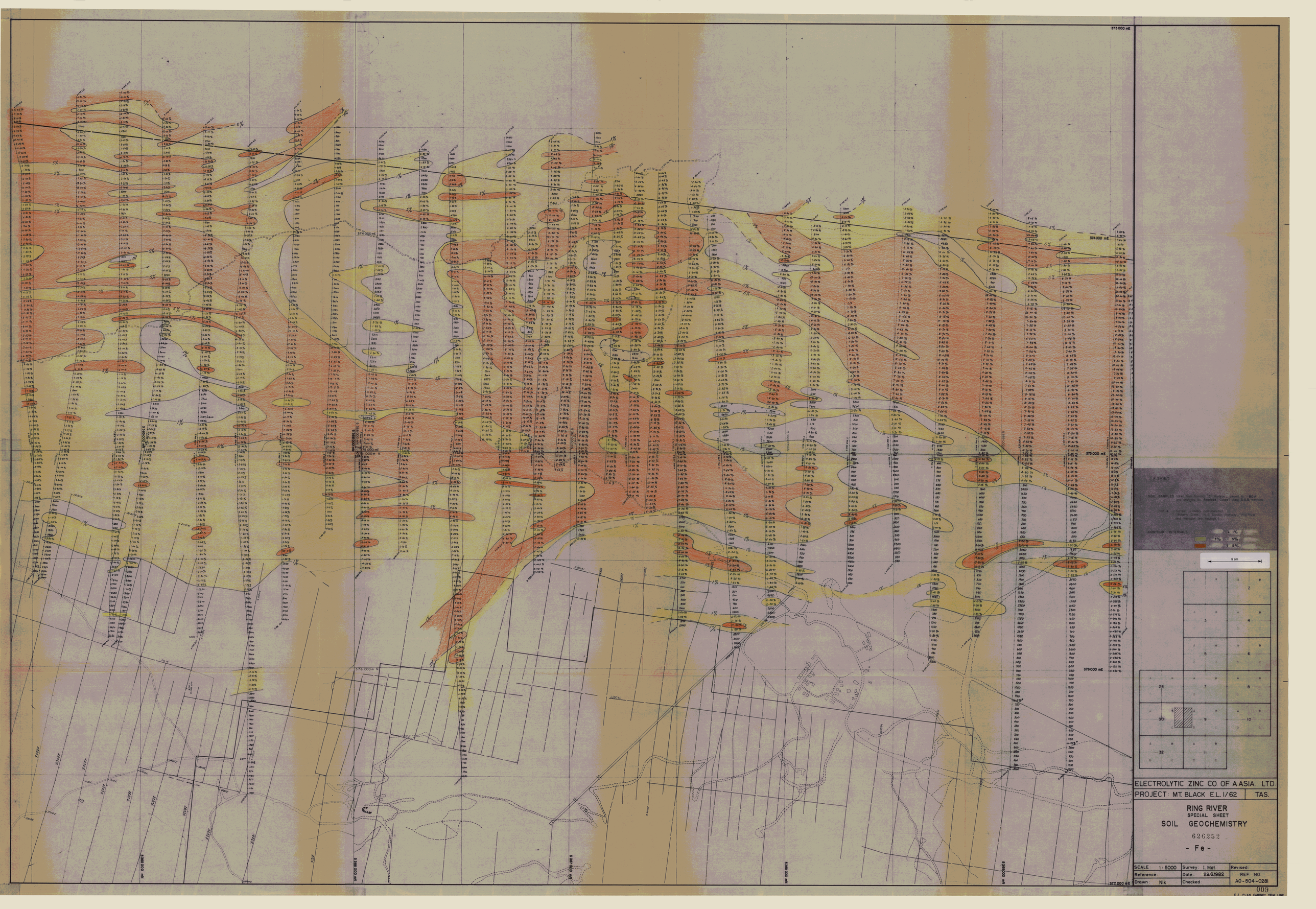
Us
Serpentinite

Talcose Alteration

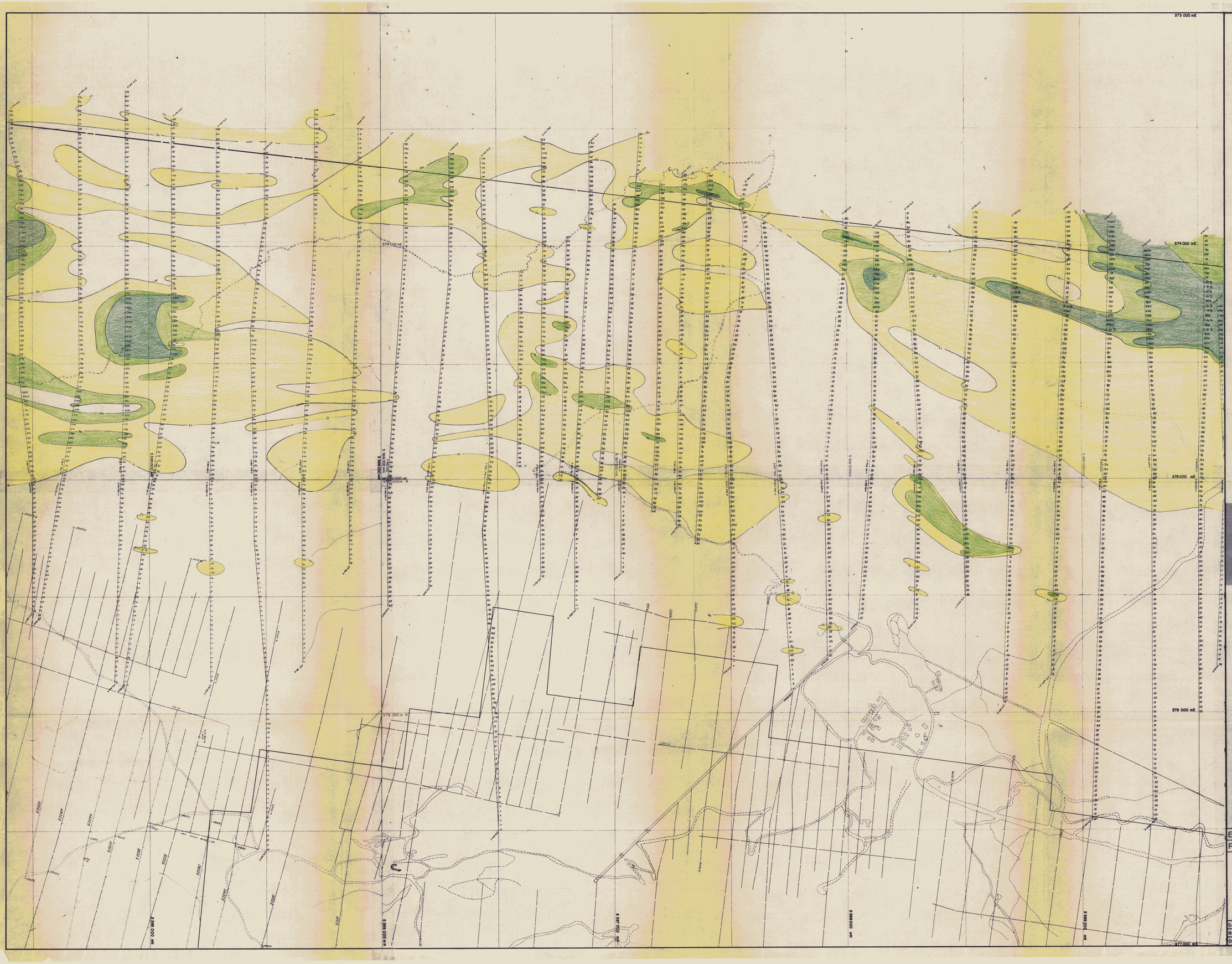
Zone of granite dykes

PLAN

SEA LEVEL



373 000 mE
374 000 mE
375 000 mE
376 000 mE
377 000 mE
LEGEND
SOIL SAMPLES
CONTOUR INTERVALS
5 cm
ELECTROLYTIC ZINC CO. OF A ASIA. LTD.
PROJECT: MT. BLACK E.L. 1/62
TAS.
RING RIVER
SPECIAL SHEET
SOIL GEOCHEMISTRY
626252
- Fe -
SCALE: 1:5000
Survey: I. Mat.
Revised:
Reference:
Date: 29.6.1982
REF NO.
Drawn: Nik
Checked:
AO-504-0281
009
E.Z. PLAN CABINET TRIM LINE



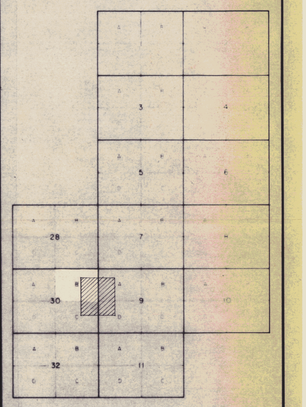
5 cm

LEGEND

SOIL SAMPLES taken from Horizon "C" Horizon, sieved to -80 # and analysed by Anaheim (Cooke) using A.A.S. methods

NPS • Surface probably contaminated (Bosch Creek, N.E. Tandon Tributary, Ring River and Hanover are housing)

CONTOUR INTERVALS
60 - 300 ppm
300 - 1000 ppm
> 1000 ppm



ELECTROLYTIC ZINC CO. OF A ASIA LTD

PROJECT: MT. BLACK E.L. 1/62 | TAS.

RING RIVER
SPECIAL SHEET
SOIL GEOCHEMISTRY

626253

- Cr -

SCALE: 1:5000	Survey: I. Mat.	Revised:
Reference:	Date: 29.6.1982	REF NO: A0-504-0282
Drawn: Nik	Checked:	

010

E.Z. PLAN CABINET TRIM



ELECTROLYTIC ZINC CO OF A'ASIA LTD

PROJECT MT BLACK E.L. 1/62 | TAS.

RING RIVER

SPECIAL SHEET

SOIL GEOCHEMISTRY

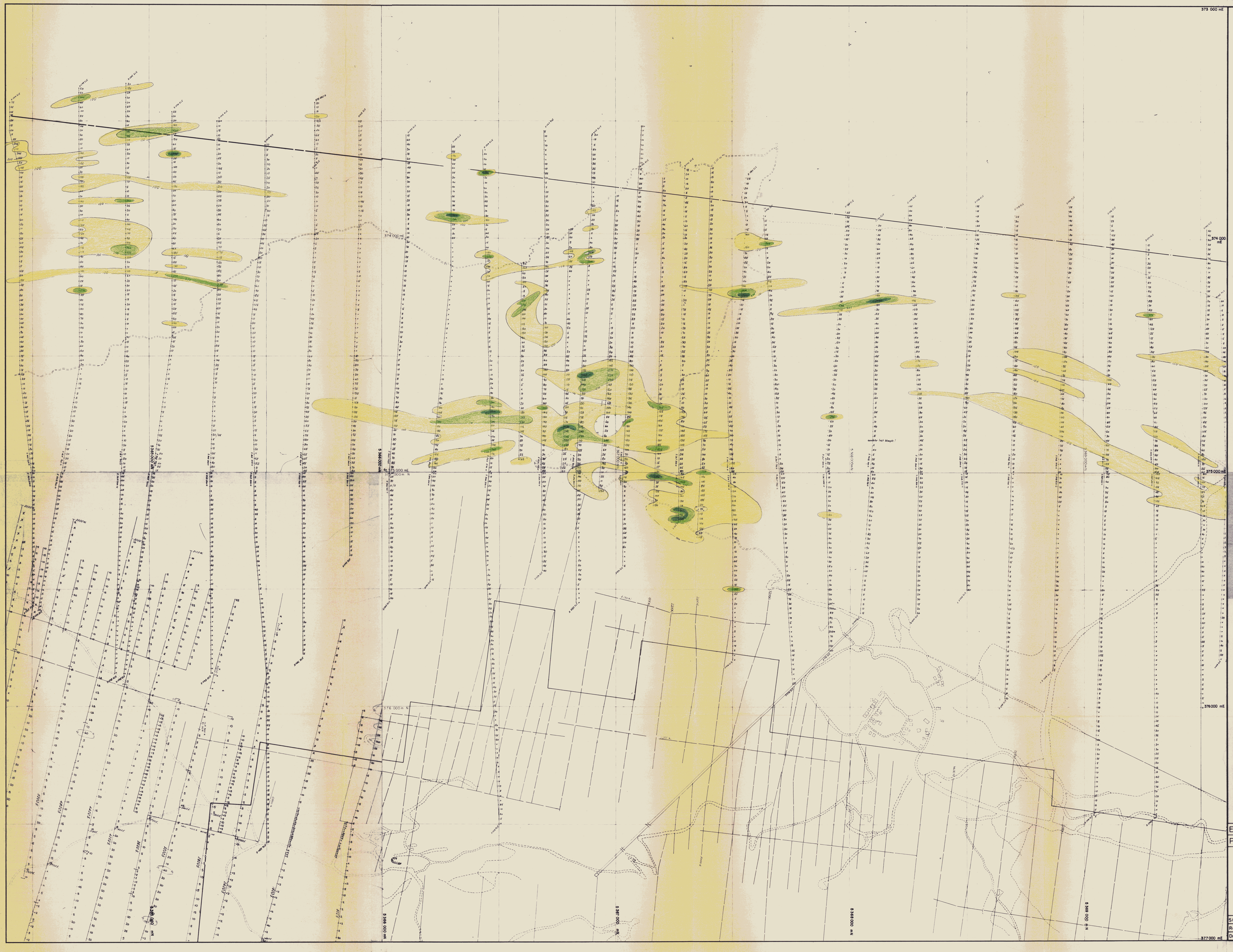
626254

- Sn -

SCALE 1:5000	Survey I.Mat.	Revised	
Reference	Date 29.6.1982	REF NO A0-504-0283	
Drawn Nik	Checked		

TCR 83-1920 Vol. 3 011

E Z PLAN CABINET TRIM



ELECTROLYTIC ZINC CO. OF A'ASIA. LTD.

PROJECT: MT. BLACK E.L. 1/62 | TAS.

RING RIVER

SPECIAL SHEET

SOIL GEOCHEMISTRY

626255

- Cu -

SCALE 1:5000	Survey: I. Mat.	Revised:	
Reference:	Date 29.6.1982	REF NO	A0-504-0284
Drawn: Nik	Checked:		

E.Z. PLAN CABINET TRIM LINE

373 000 mE

374 000 mE

375 000 mE

376 000 mE

377 000 mE

5 948 000 mN

5 947 000 mN

5 946 000 mN

LEGEND

5 cm

SOIL SAMPLES taken from Nominal "C" Horizon, sieved to - 80 # and analysed by Analabs (Cooee) using A.A.S. methods

Sample probably contaminated (Baker's Creek, N.E. Dundas Tramway, Ring River and Hercules ore haulage)

CONTOUR INTERVALS

150 - 300	ppm
300 - 500	ppm
500 - 1000	ppm
> 1000	ppm

28 7 8

30 9 10

32 11

ELECTROLYTIC ZINC CO OF A'ASIA. LTD

PROJECT: MT. BLACK E.L. 1/62 | TAS.

RING RIVER

SPECIAL SHEET

SOIL GEOCHEMISTRY

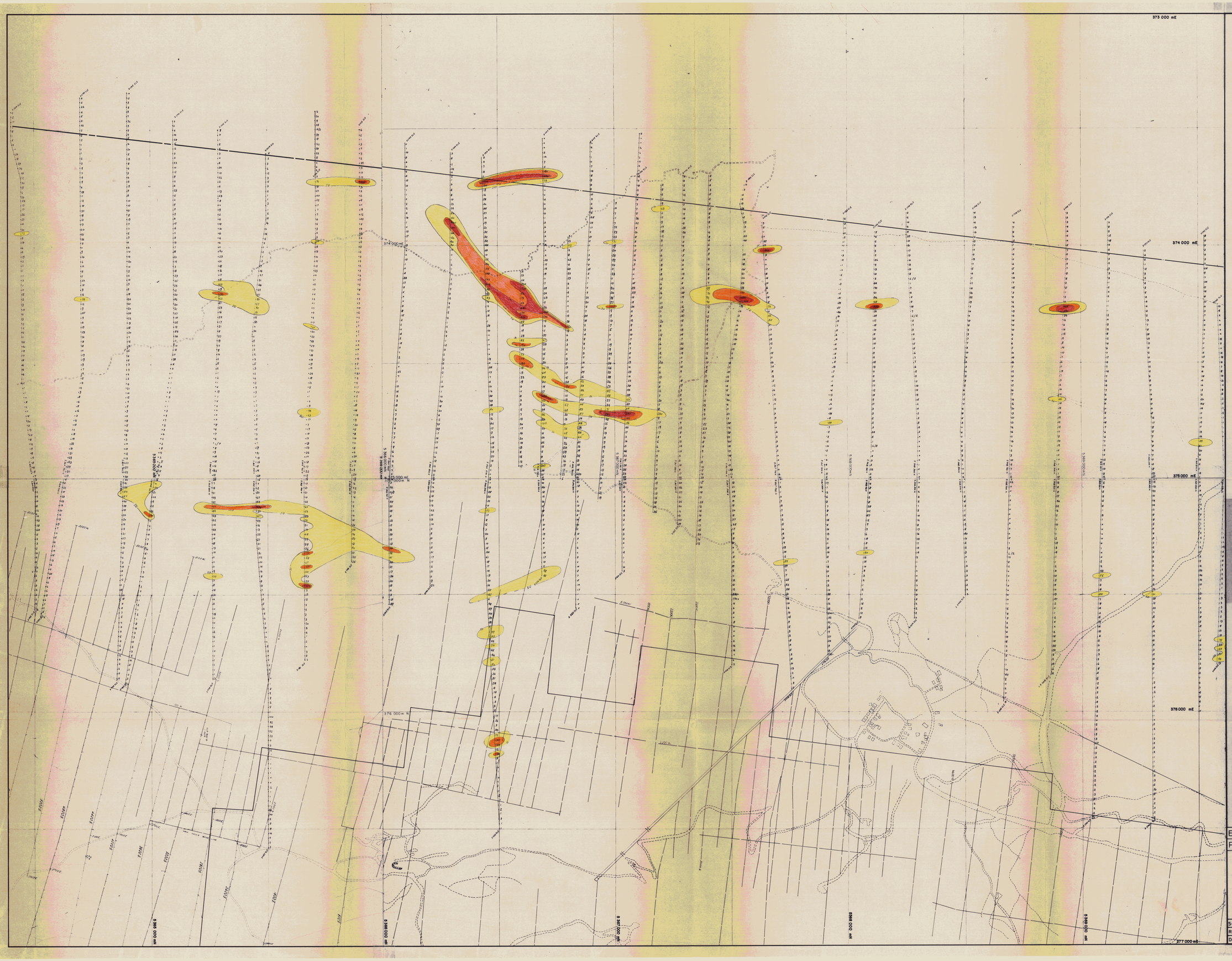
626256

- Pb -

SCALE: 1:5000	Survey: I. Mat.	Revised:	
Reference:	Date: 29.6.1982	REF NO	A0-504-0285
Drawn: Nik	Checked:		

013

E-Z PLAN CABINET TRIM LINE



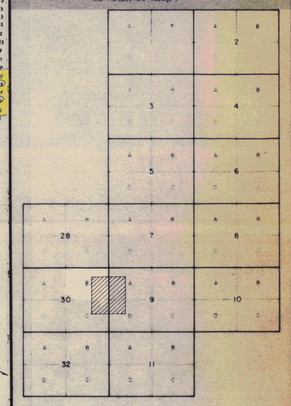
LEGEND

5 cm

SOIL SAMPLES taken from Nominal "C" Horizon, sieved to -80# and analysed by Analabs (Cooke) using A.A.S. methods.

CONTOUR INTERVALS
50 - 100 ppm
100 - 200 ppm
> 200 ppm

mob = Sample probably contaminated (Baker's Creek, N.E. Dundas tramway, Ring River and Hercules ore haulage)



ELECTROLYTIC ZINC CO. OF A ASIA. LTD.

PROJECT: MT. BLACK E.L. 1/62 | TAS.

RING RIVER
SPECIAL SHEET
SOIL GEOCHEMISTRY

626257.

- As -

SCALE: 1:5000	Survey: I. Mat.	Revised:
Reference:	Date: 29.6.1982	REF NO. A0-504-0286
Drawn: Nik	Checked:	

014

E.Z. PLAN CABINET TRIM LINE

373 000 mE

374 000 mE

375 000 mE

376 000 mE

377 000 mE

LEGEND

SOIL SAMPLES taken from horizon "C" Horizon , sieved to - 80 # and analysed by Analabs (Cooke) using A.A.S. methods

1700 ● Sample probably contaminated (Baker's Creek , N.E. Dundas tramway , Ring River and Hercules ore haulage).

CONTOUR INTERVALS
250 - 500 ppm
500 - 1000 ppm
> 1000 ppm

5 cm

28	7	8	
30	9	10	
32	11		

ELECTROLYTIC ZINC CO. OF A'ASIA. LTD.

PROJECT: MT. BLACK E.L. 1/62 | TAS.

RING RIVER
SPECIAL SHEET
SOIL GEOCHEMISTRY

626258

- Zn -

SCALE 1:5000	Survey: I.Mat.	Revised:
Reference:	Date: 29.6.1982	REF NO. A0-504-0287
Drawn: Nlk	Checked:	

015

E.Z. PLAN CABINET TRIM LINE



LEGEND

- < 2400 F
- 2400 – 2500 -
- 2500 – 2600 -
- 2600 – 2700 -
- 2700 – 2800 -
- 2800 – 2900 -
- 2900 – 3000 -
- 3000 – 4000 -

Add 60 000 to obtain field readings in gamma

5 cm

				A	B	A	B
				1		2	
				D	C	D	C
A	B	A	B	A	B	A	B
3		4					
D	C	D	C	D	C	D	C
A	B	A	B	A	B	A	B
5		6					
D	C	D	C	D	C	D	C
A	B	A	B	A	B	A	B
28		7		8			
D	C	D	C	D	C	D	C
A	B	A	B	A	B	A	B
30		9		10			
D	C	D	C	D	C	D	C
A	B	A	B				
32		11					
D	C	D	C				

ELECTROLYTIC ZINC CO. OF A.ASIA. LTD

PROJECT: MT. BLACK E.L. 1/62 | TAS

626259

RING RIVER

SPECIAL SHEET

GROUND MAGNETICS

SCALE 1:5000	Survey	I. Mat.	Revised
Reference:	Date	23.6.1982	REF. NO
Drawn Uta	Checked		AO - 504 - 0267

TCR 83-920 Vol. 4

016

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: MT BLACK E.L. 1/62 | TAS

626260

5 cm

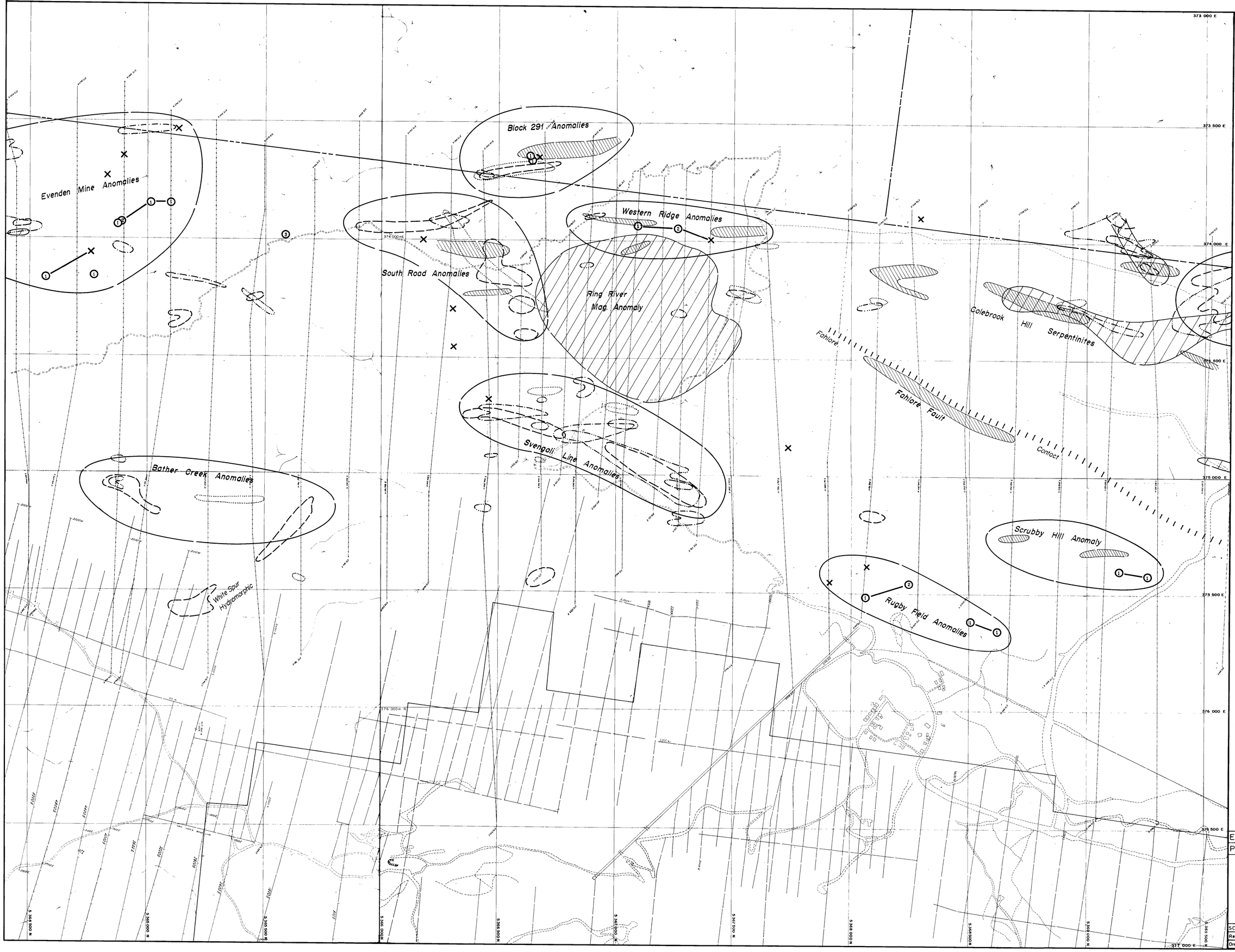
RING RIVER

SPECIAL SHEET

V.L.F. Smoothed Dip Contours

SCALE: 1:5000	Survey: I. Mat.	Revised:
Reference:	Date: 25.6.1982	REF. NO. AO - 504 - 0269
Drawn: Nik	Checked:	

TCR 83-1920 Vol. 4 017



LEGEND

Magnetic Anomaly

V.L.F. Anomaly

Dighem Anomaly (showing grade)

Pb - Soil Geochemistry Anomaly

Cu "

Zn "

As "

NOTE: Shapes of anomalies are simplified

5 cm

ELECTROLYTIC ZINC CO OF A ASIA. LTD

PROJECT: MT. BLACK E.L. 1/62 | TAS.

626261

RING RIVER

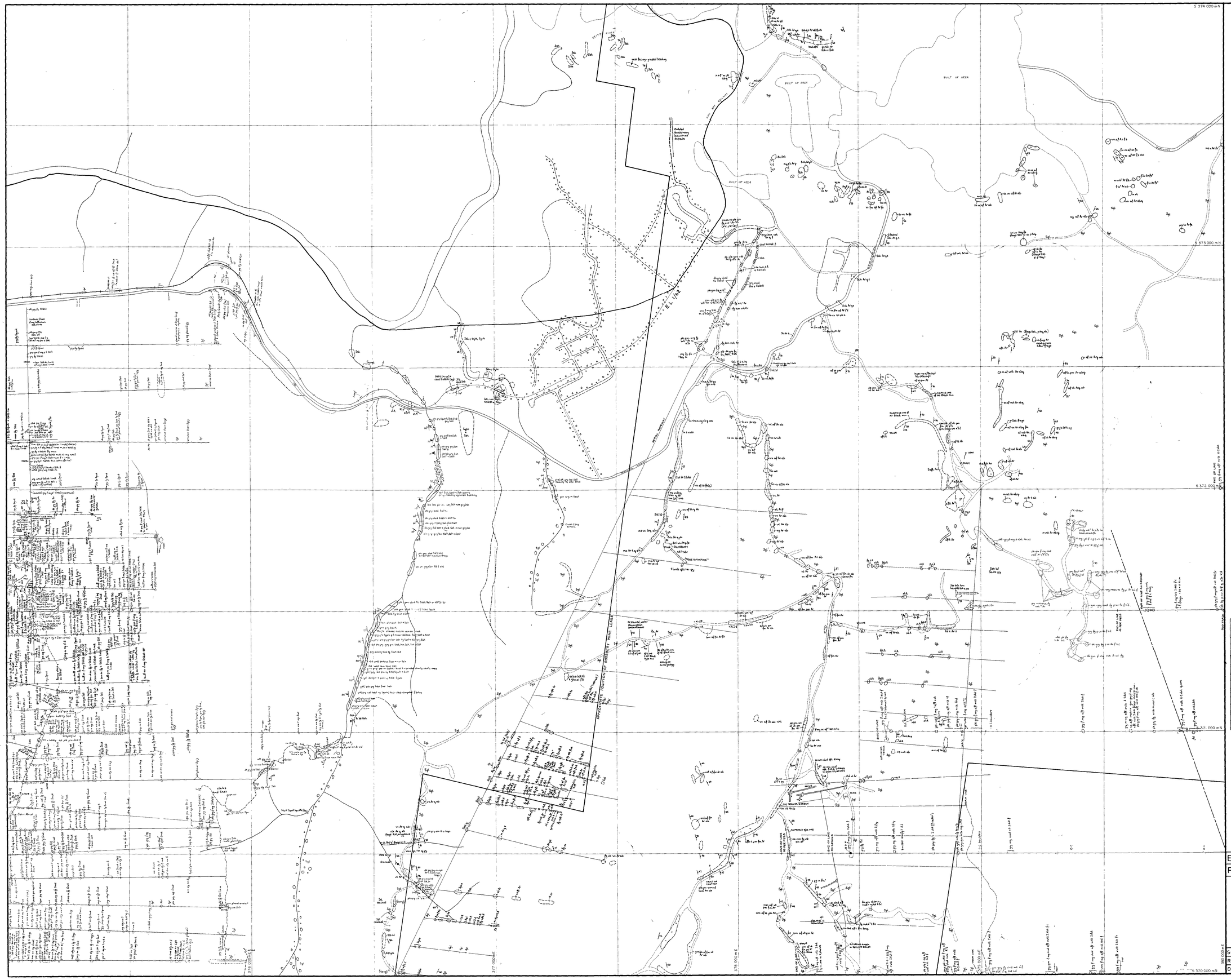
SPECIAL SHEET

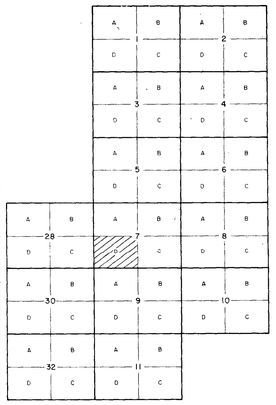
ANOMALIES

SCALE	1:5000	Survey	I. Mat.	Revised	
Reference		Date	2.12.1982	REF NO	
Drawn	Nik	Checked		AO - 504 - 0313	

Tcr 83-1920 Vol. 4

018





62C262

5 cm

ELECTROLYTIC ZINC CO. OF A ASIA. LTD

PROJECT: MT. BLACK | TAS.

GEOLOGY

SCALE 1:5000	Survey J.M	Revised 26.9.80
Reference	Date. 29.5.79	REF NO
Drawn R.P.T	Checked	A0 - 504 - 0044

019

NOTES

THIS PLAN IS A COMPILATION OF GEOLOGY BY -

STITT GRID - G ILIFF - 1979/80

MT READ ROAD and tracks in KOONYA area - R WILLIAMS - 1972/73
- G GREEN - 1974

ROSEBERY LODES GRID - ANNUAL REPORTS - 1971/72

DALLWITZ NORTH HURCULES GRIDS - ANNUAL REPORTS - 1971/72

NORTH HURCULES & HURCULES AREA - A H THROOP - E Z REPORTS N°12 & 116 (1974)

WEST HURCULES GRID - F FITZGERALD - E Z REPORT N°120 (1975)
- A THROOP
- D REINWAROT

ROSEBERY LODES GRID

HOST ROCKS

APPROXIMATE POSITION OF ROSEBERY MINE LEASE

NORTH HERCULES GRID

GLACIAL COVERED GEOLOGICAL MAPPING NOT UNDERTAKEN

TERMINAL MORAINE

DALLWITZ GRID

STITT GRID

NORTH HERCULES GRID

NORTH HERCULES GRID

WEST HERCULES GRID

EL 1/62

5 370 000 mN

5 369 000 mN

5 368 000 mN

5 367 000 mN

5 366 000 mN

376 000 mE

380 000 mE

5 cm

ELECTROLYTIC ZINC CO OF A.ASIA. LTD

PROJECT MT. BLACK | TAS.

GEOLOGY

626263

SCALE 1 5000	Survey J M	Revised 26 9 80
Reference	Date 29 5 79	REF NO
Drawn RPT - TGOS	Checked	AO - 504 - 0043

E Z PLAN CABINET TRIM LINE

AO TRIM LINE

NOTES

1. WHITE SPUR (Dobson's Creek Grid) Pegs on lines 00S, 800S, 1600S, etc, were replaced during 1980. Lines 2800S, 3600S, & 4400S, were cut during 1980 and accurately pegged. Pegs numbered on Howard's track have been surveyed. All pegging is East & West of Base Line marked 00W.

COMPILATION OF MAPPING
SOURCES OF INFORMATION

WHITE SPUR (DOBSON'S CREEK GRID) - E.Z.GEOL DEPT REPORTS 108 & 109

ROAD MAPPING BY: - R WILLIAMS.
- N HANSON.
- P KOMYSHAN
- F FITZGERALD

WHITE SPUR
JONES CREEK (DALLWITZ) GRID

WHITE SPUR
(DOBSON'S CREEK GRID)

JONES CREEK GRID

5 366 000 m N
5 365 000 m N
5 364 000 m N
5 363 000 m N
5 362 000 m N
376 000 m E
377 000 m E
378 000 m E
379 000 m E
380 000 m E

A	B	A	B
1			2
D	C	D	C
A	B	A	B
3			4
D	C	D	C
A	B	A	B
5			6
D	C	D	C
A	B	A	B
28		7	8
D	C	D	C
A	B	A	B
30		9	10
D	C	D	C
A	B	A	B
32		11	
D	C	D	C

5 cm

N B Old R.E.W co-ordinates to be deleted 'later'

ELECTROLYTIC ZINC CO OF A.ASIA. LTD

PROJECT: MT. BLACK | TAS.

626264

GEOLOGY

SCALE 1 5000	Survey J.M./ R.J.W.	Revised 26/5/81
Reference	Date	REF NO
Drawn R.P.T.	Checked	A0 - 504 - 0124

E Z PLAN CABINET TRIM LINE

A0 TRIM LINE

5 362 000 mN

5 361 000 mN

5 360 000 mN

5 359 000 mN

5 358 000 mN

375 000 mE

376 000 mE

377 000 mE

378 000 mE

379 000 mE

380 000 mE

A	B	A	B
D	C	D	C
1		2	
A	B	A	B
D	C	D	C
3		4	
A	B	A	B
D	C	D	C
5		6	
A	B	A	B
D	C	D	C
28		7	8
A	B	A	B
D	C	D	C
30		9	10
A	B	A	B
D	C	D	C
32		11	

ELECTROLYTIC ZINC CO OF A'ASIA. LTD

PROJECT: MT. BLACK E.L. 1/62 | TAS.

GEOLOGY

626265

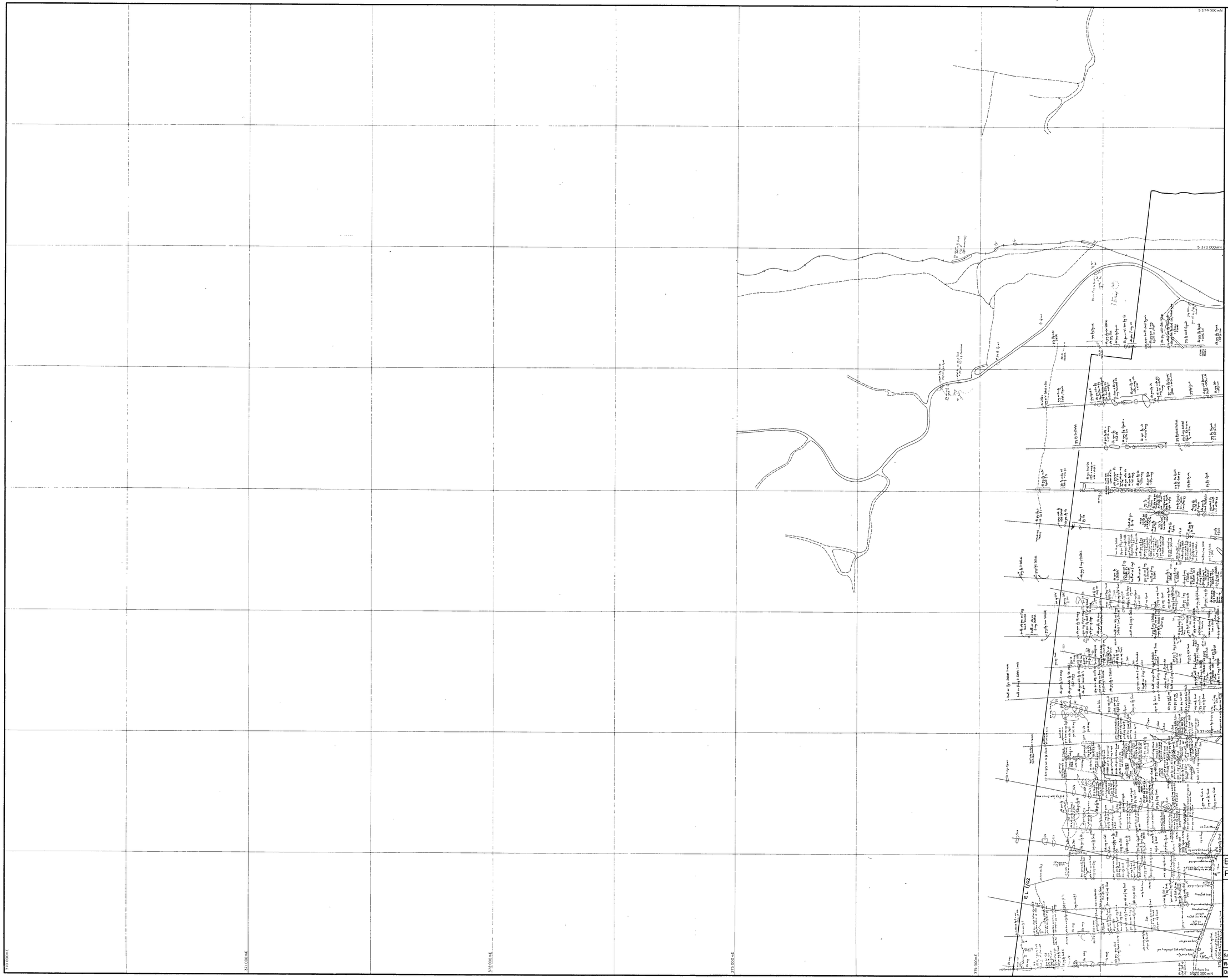
SCALE 1:5000	Survey R.J.W.	Revised
Reference	Date 23 4-1981	REF NO
Drawn R.T.	Checked	A0-504-0173

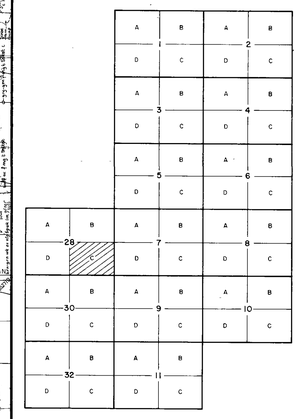
5cm

023

E Z PLAN CABINET TRIM LINE

A0 TRIM LINE





626266

5 cm

ELECTROLYTIC ZINC CO. OF A'ASIA. LTD

PROJECT: MT. BLACK E.L. 1/62 | TAS.

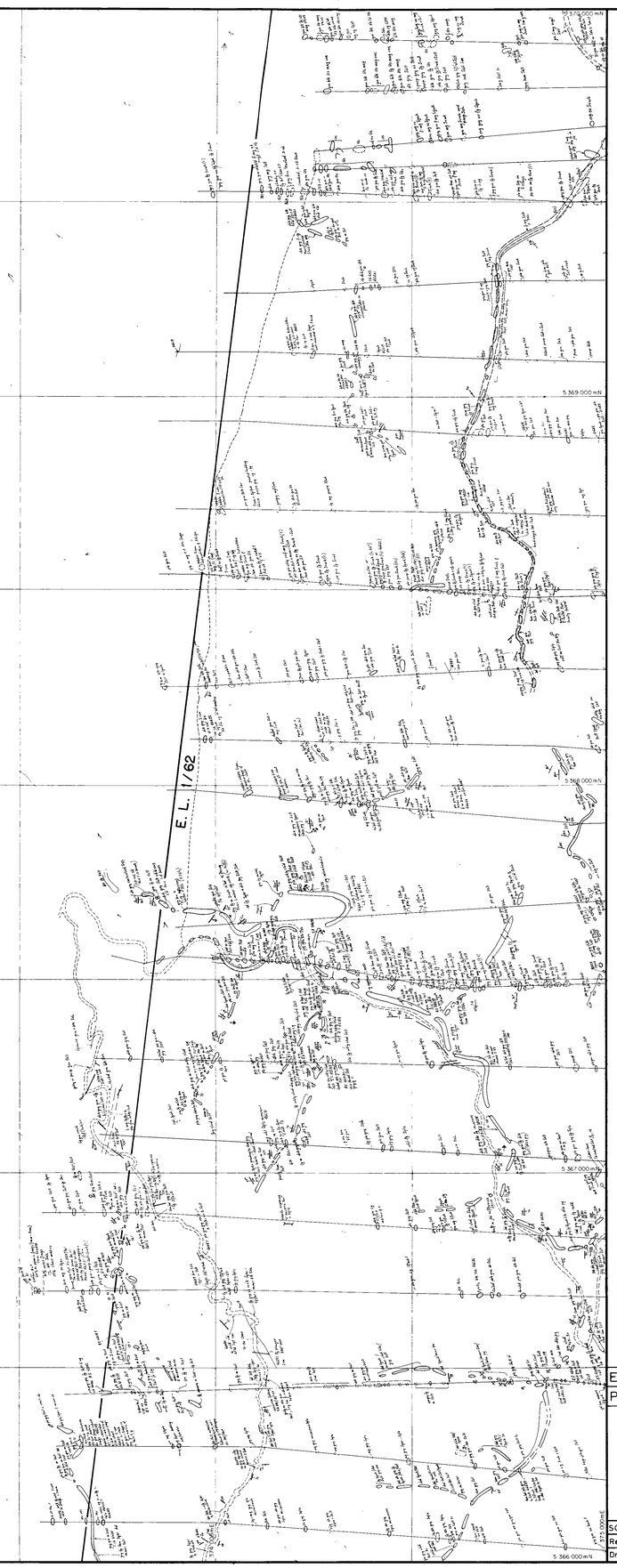
GEOLOGY

SCALE 1:5000	Survey G.D.I., I.R.M.	Revised 24-2
Reference	Date 23.6.80	REF NO
Drawn R.P.T	Checked.	AO-504-0117

020

E.Z. PLAN CABINET TRIM LINE

A0 TRIM LINE



NOTE

This plan supecedes plan No AO-504-0130

A	B	A	B
D	C	D	C
1		2	
A	B	A	B
D	C	D	C
3		4	
A	B	A	B
D	C	D	C
5		6	
A	B	A	B
D	C	D	C
28		7	
A	B	A	B
D	C	D	C
30		9	
A	B	A	B
D	C	D	C
32		11	

ELECTROLYTIC ZINC CO OF A ASIA. LTD

PROJECT · MT. BLACK E.L. 1/62 | TAS.

626267

GEOLOGY

SCALE 1:5000	Survey I.R.M., I.Mat.	Revised
Reference	Date 20.8.1982	REF NO
Drawn Nik	Checked	AO-504-0290

5 cm

024 E Z PLAN CABINET TRIM LINE

EL 1/62

5 366 000 mN

5 365 000 mN

5 364 000 mN

5 363 000 mN

5 362 000 mN

370 000 mE

371 000 mE

372 000 mE

373 000 mE

374 000 mE

375 000 mE

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

1 2 3 4 5 6 7 8 9 10 11 28 30 32

ELECTROLYTIC ZINC CO. OF A'ASIA LTD

PROJECT: MT. BLACK E.L. 1/62 | TAS.

626268

GEOLOGY

SCALE 1:5000	Survey R.J.W	Revised
Reference	Date 31-3-1981	REF NO
Drawn R.T.	Checked	A0-504-0172

5 cm

025

E Z PLAN CABINET TRIM LINE

5 362 000 mN

5 361 000 mN

5 360 000 mN

5 359 000 mN

5 358 000 mN

▲ MT. DUNDAS

370 000 mE

371 000 mE

372 000 mE

373 000 mE

374 000 mE

375 000 mE

A B	1	A B	2
D C		D C	
A B	3	A B	4
D C		D C	
A B	5	A B	6
D C		D C	
A B	7	A B	8
D C		D C	
A B	9	A B	10
D C		D C	
A B	11	A B	
D C		D C	

28 30 32

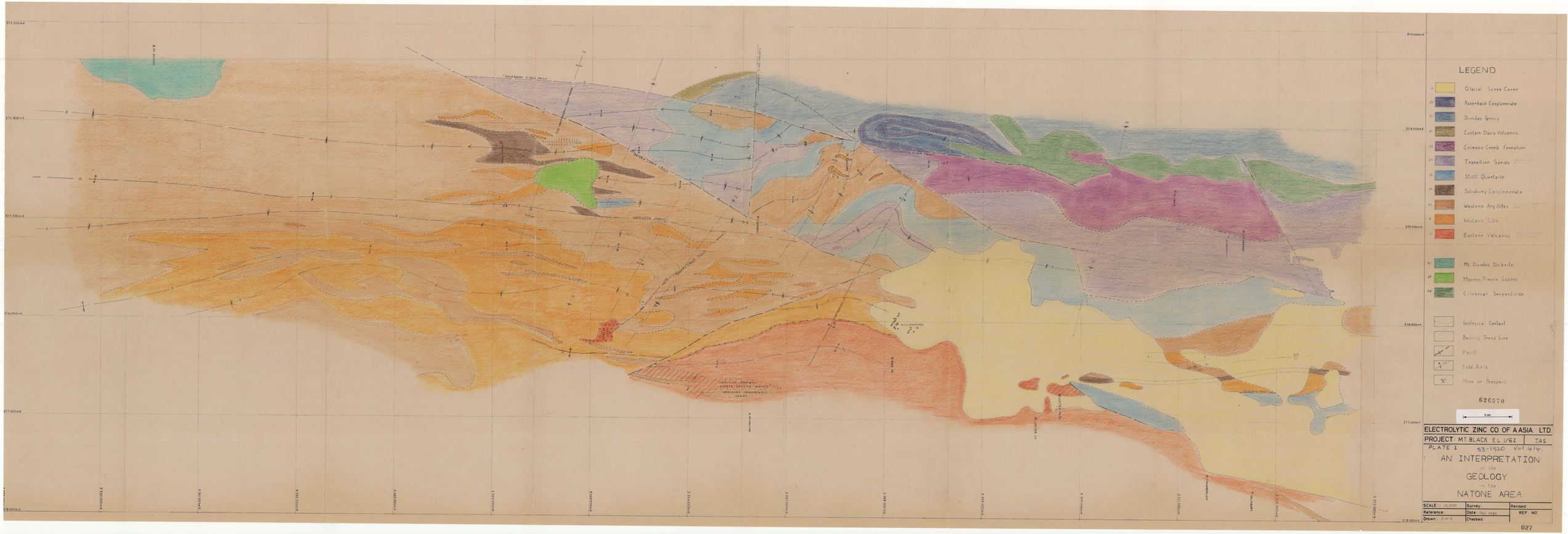
ELECTROLYTIC ZINC CO. OF A'ASIA. LTD

PROJECT MT. BLACK E.L. 1/62 | TAS.

GEOLOGY

626269

SCALE 1 5000	Survey R J W	Revised
Reference	Date 23 - 4 - 1981	REF NO
Drawn R.T	Checked	AO - 504 - 0174


LEGEND
Glacial Scree Cover
Razorback Conglomerate
Dundas Group
Curtain Davis Volcanics
Crimson Creek Formation
Transition Series
Stitt Quartzite
Salisbury Conglomerate
Western Argillites
Western Tuffs
Eastern Volcanics
Mt Dundas Dolerite
Moores Pimple Gabbro
Colebrook Serpentinite
Geological Contact
Bedding Trend Line
Fault
Fold Axis
Mine or Prospect
626270
5 cm
ELECTROLYTIC ZINC CO. OF A ASIA LTD.
PROJECT: MT. BLACK E.L. 1/62
TAS.
PLATE 1
83-1920 Vol 414.
AN INTERPRETATION
of the
GEOLOGY
in the
NATONE AREA
SCALE: 1:10,000
Survey:
Revised:
Reference:
Date: Nov 1933
REF. NO.
Drawn: E.H.D.
Checked:
027

5368000mN

5369000mN

5370000mN

5371000mN

5372000mN

371000mE

372000mE

373000mE

374000mE

375000mE

376000mE

377000mE

378000mE

COLEBROOK RIDGE FAULT

FARLORE FAULT

BATHER CREEK FAULT

CEMETARY FAULT

ROSEBERY FAULT

LEGEND

- Glacial Scree Cover
- Razorback Conglomerate
- Dundas Group
- Curtain Davis Volcanics
- Crimson Creek Formation
- Transition Series
- Stitt Quartzite
- Salisbury Conglomerate
- Western Argillites
- Western Tuffs
- Eastern Volcanics
- Mt Dundas Dolerite
- Moores Pimple Gabbro
- Colebrook Serpentinite
- Geological Contact
- Bedding Trend Line
- Fault
- Fold Axis
- Mine or Prospect

626271

5 cm

ELECTROLYTIC ZINC CO. OF A'ASIA. LTD.

PROJECT: MT. BLACK E.L. 1/62 — TAS

PLATE 2 — NORTH SHEET

EAST-WEST SECTIONS of the GEOLOGY in the NATONE AREA

SCALE: 1: 10,000	Survey:	Revised:
Reference:	Date: Dec. 1962	REF. NO.
Drawn: K.M.B.	Checked:	

028

5368000mN

5369000mN

5370000mN

5371000mN

5372000mN

371000mE

374000mE

377000mE

380000mE

383000mE

386000mE

389000mE

COLEBROOK RIDGE FAULT

FARLORE FAULT

DATHER CREEK FAULT

ROSEBERY FAULT

CEMETARY FAULT

LEGEND

- Glacial Scree Cover
- Razorback Conglomerate
- Dundas Group
- Curtain Davis Volcanics
- Crimson Creek Formation
- Transition Series
- Stitt Quartzite
- Salisbury Conglomerate
- Western Argillites
- Western Tuffs
- Eastern Volcanics
- Mt Dundas Dolerite
- Moores Pimple Gabbro
- Colebrook Serpentinite
- Geological Contact
- Bedding Trend Line
- Fault
- Fold Axis
- Mine or Prospect

5 cm

626272

83-1920 (H)

ELECTROLYTIC ZINC CO. OF A'ASIA. LTD.

PROJECT: MT. BLACK E.L. 1/62 | TAS

PLATE 2 NORTH SHEET

EAST-WEST SECTIONS of the GEOLOGY in the NATONE AREA

SCALE: 1:10,000	Survey:	Revised:
Reference:	Date: Dec. 1982	REF. NO.
Drawn:	Checked:	

5363000mN

5364000mN

5365000mN

5366000mN

5367000mN

BATHER CREEK FAULT

COLEBROOK RIDGE FAULT

CONLIFFE FAULT

BAKERS CREEK FAULT

PERLORE FAULT

LEGEND

- Glacial Scree Cover
- Razorback Conglomerate
- Dundas Group
- Curtain Davis Volcanics
- Crimson Creek Formation
- Transition Series
- Stitt Quartzite
- Salisbury Conglomerate
- Western Argillites
- Western Tuffs
- Eastern Volcanics
- Mt Dundas Dolerite
- Moores Pimple Gabbro
- Colebrook Serpentinite
- Geological Contact
- Bedding Trend Line
- Fault
- Fold Axis
- Mine or Prospect

626273

5 cm

ELECTROLYTIC ZINC CO. OF A'SIA. LTD.

PROJECT: MT. BLACK E.L. 1/62 TAS.

PLATE 3 SOUTH SHEET

EAST-WEST SECTIONS of the GEOLOGY in the NATONE AREA

SCALE: 1:10,000	Survey:	Revised:
Reference:	Date: Nov 1962	REF. NO.
Drawn: J.M.D	Checked:	

029

E.Z. PLAN CABINET TRIM LINE