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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

Mineral Resources Division

0 0 MAY 1986
DEPT. OF MINES
5277/86

EXPLORATION LICENCE NO. 4/78 - ZEEHAN

Progress Report on Exploration Activity

30th April, 1985 to 30th April, 1986

E.Z. Report No. 215

I.J. Mathison,

April, 1986

MICROFILMED

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1. INTRODUCTION

1.1. Location and Title

E.L. 4/78 (Zeehan) of 208km^2 was granted to Amoco Minerals on 14th July, 1978. E.Z. and Amoco negotiated a joint venture to explore E.L. 4/78, with E.Z. as manager. E.Z. exploration in E.L. 4/78 commenced in October, 1983. In 1985 Amoco's title and interest were transferred to Cyprus Minerals.

E.L. 4/78 was reduced to 123km^3 in July, 1984. The location and boundaries of the reduced E.L. are shown on Fig. 1.

The area covered by the joint venture agreement includes all of E.L. 4/78 excepting an exclusion zone around the Oceana Mine Workings.

1.2. Previous Exploration and Mining

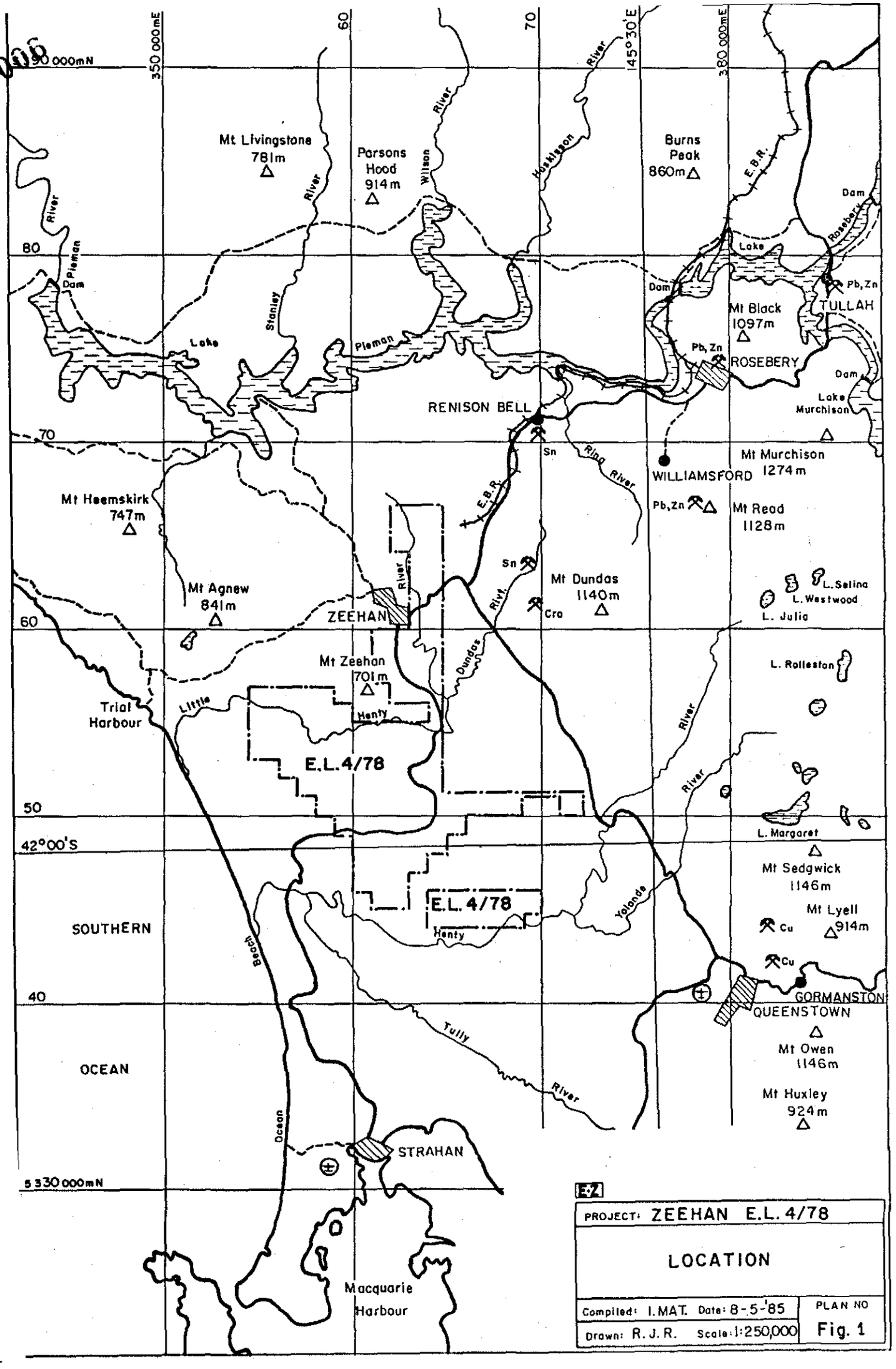
Early exploration and mining operations are summarized in E.Z. Report T177 (Jan., 1984). All reports by Amoco Minerals on exploration in E.L. 4/78 are listed. For details see E.Z. Report T177. Further exploration by E.Z. to April, 1985 is detailed in E.Z. Reports T192 and T205.

1.3. Prospect Locations

Fig. 2 shows grid names and prospect locations within E.L. 4/78. There are eleven major blocks of Ordovician Limestone within E.L. 4/78. Nine of these, including the Oceana block, are covered by grids.

1.4. Exploration Philosophy

The primary objective of the Joint Venture has been to explore for large carbonate hosted Pb-Zn deposits within the Ordovician Gordon Limestone. Exploration targets are modelled on the Irish style carbonate hosted deposits. Tin and base metal mineralization within the Cambrian basement shales and carbonates are secondary exploration targets.


006
032007
350 000mE
60
70
145°30'E
380 000mE
5 390 000mN
Mt Livingstone
781m
Parsons
Hood
914m
Burns
Peak
860m
E.B.R.
Dam
Rosebery
Lake
Pieman
River
Dam
Stanley
River
Wilson
River
Huskisson
River
Lake
Pieman
Dam
Pb, Zn
TULLAH
Mt Black
1097m
Pb, Zn
ROSEBERY
Dam
Lake
Murchison
80
70
RENISON BELL
Sn
Ring River
E.B.R.
WILLIAMSFORD
Mt Murchison
1274m
Pb, Zn
Mt Read
1128m
Mt Haemskirk
747m
Mt Agnew
841m
ZEEHAN
River
Sn
Cro
Mt Dundas
1140m
L. Selina
L. Westwood
L. Julia
60
Mt Zeehan
701m
Dundas
River
L. Rolleston
Trial
Harbour
Little
Henty
E.L.4/78
River
50
L. Margaret
42°00'S
Mt Sedgwick
1146m
E.L. 4/78
Henty
Yolande
Mt Lyell
914m
Cu
Cu
SOUTHERN
Beach
40
GORMANSTON
QUEENSTOWN
Tully
River
Mt Owen
1146m
OCEAN
Ocean
Mt Huxley
924m
STRAHAN
5 330 000mN
Macquarie
Harbour
5 cm
E-Z
PROJECT: ZEEHAN E.L. 4/78
LOCATION
Compiled: I.MAT. Date: 8-5-'85
Drawn: R.J.R. Scale: 1:250,000
PLAN NO
Fig. 1

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SASSAFRAS

360,000mE

370,000mE

ZEEHAN

5,360,000mN

38M/77

J.N.R. Enraght–Moony

39M/77

60M/77

Electolytic Zinc Co. of A/asia Ltd.

4M/77

Excluded Area

LITTLE HENTY

PYRAMID

AREA 1

RELINQUISHED

E.L. 4/78

N

MYRTLE

PROFESSOR

FEN CREEK

BAURA

5,350,000mN

GRIEVES

ROSE VALLEY

AREA 2

RELINQUISHED

11M/66

Malcolm Bendall Mining Syndicate

12M/66

5 cm

0 1 2 3 4 5km

FAULT

GORDON LIMESTONE

AEROMAGNETIC ANOMALIES

PROJECT. ZEEHAN E.L. 4/78

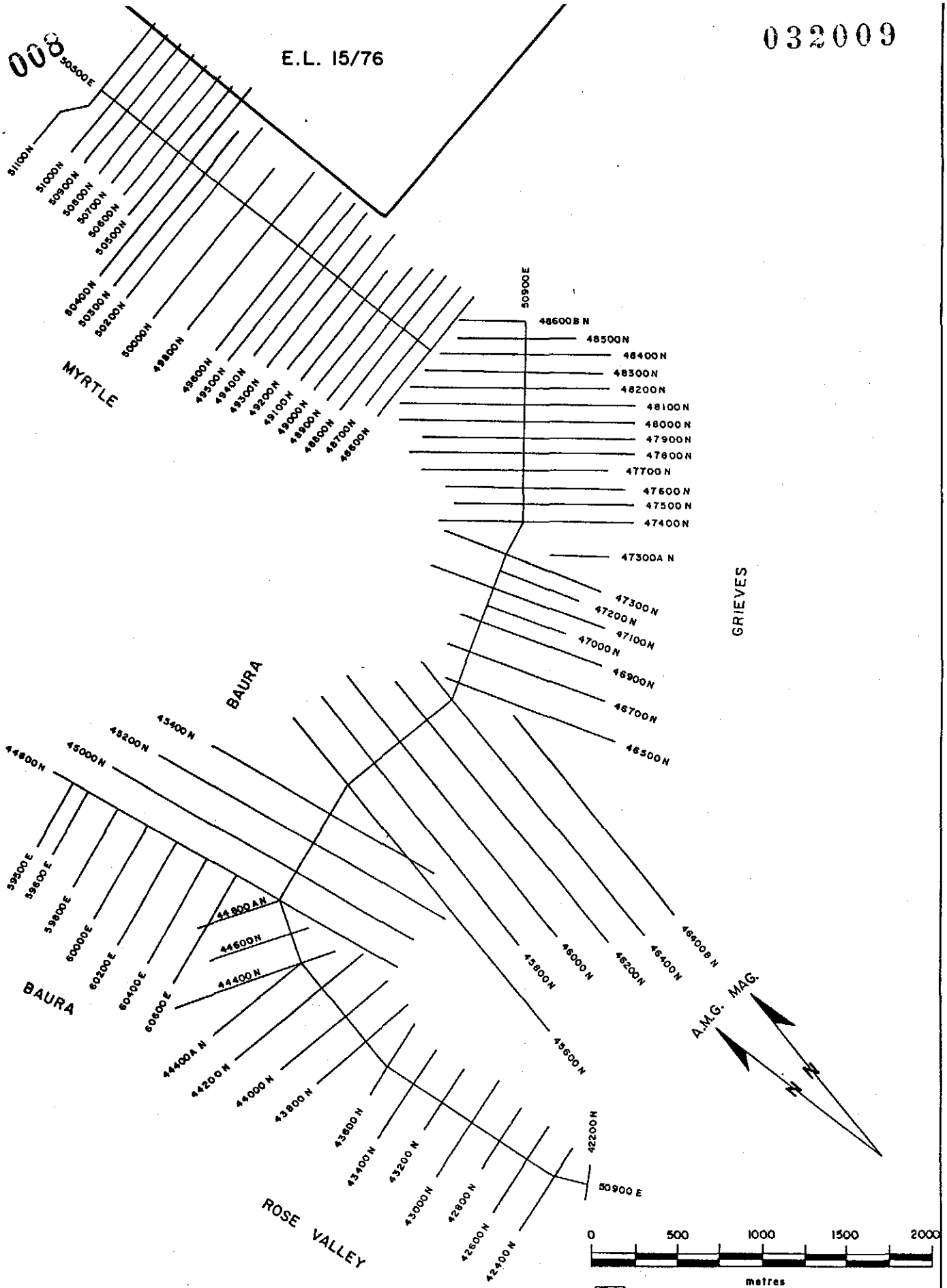
GRID LOCATIONS

Compiled: S.T. Date

Drawn: R.J.R. Scale 1:100,000

PLAN NO

Fig. 2



E-Z

PROJECT: E.L. 4/73 ZEEHAN

BADGER RIVER GRIDS

AS AT 30-5-'85

Compiled: I. MAT. Date: 2-7-'85

Drawn: R.J.R. Scale:

PLAN NO Fig. 3

2. BADGER RIVER VALLEY (See Fig. 3)

A large irregularly shaped valley in the south western portion of E.L. 4/78 is underlain by Gordon Limestone. This valley is drained by the Badger River. The Myrtle, Grieves, Baura and Rose Valley grids were established by Amoco over most of the limestone subcrop. Subsequent grid extensions by E.Z. completed the grid coverage.

Because of the irregular shape of the limestone outcrop, the common baseline of these grids bends sharply in several places to follow the valley. Consequently the nominally north-south baseline varies in orientation from north-south to almost east-west. All directions used in the following discussions refer to true north unless prefixed by the word 'grid'. Occasionally grid north is the same as north.

2.1. Previous Exploration

Previous E.Z. exploration in this area (1983-85) included bedrock geochemistry, costeaning, geological mapping, geophysics and some drilling. Major geophysical techniques used were ground magnetics, gravity and UTEM. Costeaning and bedrock geochemistry located mineralized zones within peaty pug overburden and underlying limestone. Costean sampling reported 54m of 2.7% Zn and 1.1% Pb in black pug at Myrtle and 20m of 7.0% Zn and 1.1% Pb in limestone breccia at Grieves. These breccias included clasts of syngenetic sulphides in a matrix which included both sphalerite and zinc carbonates. These early results were very encouraging.

Three drill holes, ZG 1001, ZG1002 and ZM 1003 were drilled to test beneath the mineralized costeans. The only significant mineralization intersected was 8.2m of 2.0% Zn in ZG 1002. This mineralization occurs as zinc carbonates.

Subsequent geological, geochemical and geophysical exploration suggested that known mineralization was associated with north westerly trending faults cutting across the limestone sequence. Faults identified include the Professor, Grieves and Firewood Siding Faults. These faults appear to have been active during deposition of the limestone. A similar fault through the costean on L47,100N at Grieves was inferred on the basis of bedrock geochemistry and airphoto interpretation.

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2.2. Work Completed May, 1985-April, 1986

Exploration of the Badger River area in 1985-86 was especially directed towards detecting and testing anomalies associated with mineralized fault zones. Drill holes tested geochemical, geological and geophysical targets near the Professor, Grieves and Firewood Siding Faults.

Another diamond drill hole tested a coincident geochemical and UTEM anomaly at Grieves while the Winkie drill was used to drill shallow diamond drill holes around geochemical anomalies and in areas of known mineralization.

Bedrock sampling using the Wacker drill was extended to cover most of the area. Only the southern portion of the Rose Valley Grid and the north western corner of the Baura Grid have not been sampled.

Additional geological data and bedrock geochemical patterns were used to improve the geological interpretation of the area.

2.2.1. Sample Preparation, Analytical Techniques and Data Presentation

All geochemical analyses on Wacker samples, soil, rock and split core were carried out by Analabs in Burnie. The same analytical techniques were used for all samples.

Samples were dried, crushed, split and pulverized. For A.A.S., a total digestion by mixed acid attack was used (Analabs method 103). Barium, when requested, was determined by pressed powder X.R.F.

All samples were analysed for Cu, Pb, Zn, Fe and Mn by A.A.S. with Ag requested for samples reporting greater than 5000 ppm Pb.

Results were transferred to data sheets or drill logs and draughted onto appropriate plans or sections. Results on geochemical plans were classified and significant groups of values were outlined by contouring. Contour intervals were selected by inspection.

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2.2.2. Deep Bedrock Sampling (See Fig. 4)

Additional bedrock sampling using the Wacker portable percussion drill was carried out at Myrtle, Baura and Rose Valley. Reconnaissance and follow up sampling of the Badger River area are almost complete. Only the north west corner of the Baura Grid and the southern portion of the Rose Valley Grid have not been sampled. Details of 1985-86 sampling are summarized below.

Grid	Line	Samples Collected			
		Bedrock	?Bedrock	Not Bedrock	Total
Myrtle	50,100N	20		3	23
	49,900N	10		1	11
	49,600N	19		3	22
	49,400N	26		2	28
	49,200N	27	1	1	29
	49,000N	32		2	34
	48,800N	26	3		29
	48,600N	26	1		27
Baura	46,400N	28		1	29
	45,600	41		1	42
Rose Valley	44,400N	40	2	5	47
	44,200N	33		4	37
	43,800N	22	3	5	30

All Wacker samples were analysed for Cu, Pb, Zn, Fe, Mn and Ba. Sample results were transferred to data sheets and draughted onto base maps. After identification of overburden samples by using sample descriptions and geochemical signatures, the resulting geochemical plans were contoured. Contour intervals were selected by inspection.

2.2.3. Soil Pits

Four shallow soil pits were dug by hand at Baura. These pits were sited using depth to bedrock data from the Wacker sampling. Both the bedrock and the

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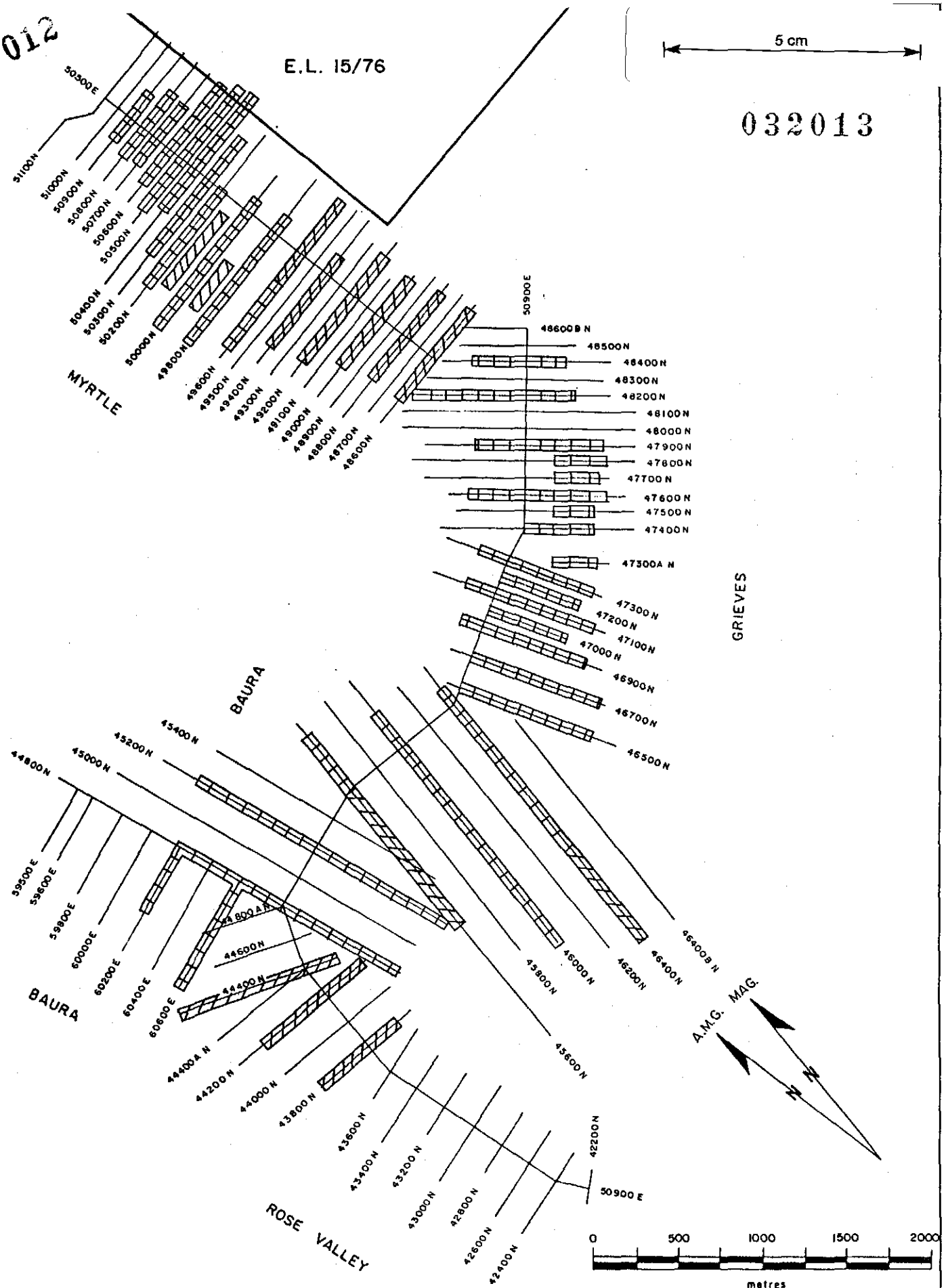

LEGEND

Sampling 1985–1986

Total sampling – to April 1986

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PROJECT: E.L. 4/73 ZEEHAN	
BADGER RIVER GRIDS WACKER SAMPLING	
Compiled: I. MAT. Date: 2-7-'85	PLAN NO
Drawn: R.J.R. Scale	Fig. 4

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immediately overlying clays or muds were sampled and analysed by the same techniques as those for Wacker samples. The resultant data were used to supplement the Wacker sampling and to aid in the identification of the geochemical characteristics of bedrock and overburden.

2.2.4. Winkie Drilling

16 shallow diamond drill holes were drilled at Grieves and Myrtle using the Winkie drill. Drilling details are summarized below.

Grid	Hole No.	Drilling		Core Recovery
		Open Hole	TT46 Core	
Myrtle	ZWM 13	0 - 8.6m	8.6 - 25.2	30%
	ZWM 14	0 - 2.3	2.3 - 25.9	35%
	ZWM 15	0 - 1.7	1.7 - 38.1	45%
	ZWM 16	0 - 5.8	5.8 - 22.3	35%
	ZWM 16A	0 - 18.0	18.0 - 28.6	98%
	ZWM 17	0 - 6.1	6.1 - 16.9	70%
	ZWM 18	0 - 6.7	6.7 - 31.3	70%
	ZWM 19	0 - 11.3	11.3 - 24.7	100%
	ZWM 19A	0 - 1.5	1.5 - 11.6	15%
Grieves	ZWG 20	0 - 2.6	2.6 - 14.9	97%
	ZWG 21	0 - 4.8	4.8 - 35.6	95%
	ZWG 22	0 - 7.7	7.7 - 16.0	60%
	ZWG 23	0 - 7.3	7.3 - 29.4	90%
	ZWG 24	0 - 7.3	7.3 - 13.0	60%
	ZWG 25	0 - 3.4	3.4 - 24.2	85%
	ZWG 26	0 - 5.3	5.3 - 22.4	80%

Core from all holes was logged in detail. Significantly mineralized intervals were split and analysed for Cu, Pb, Zn, Fe and Mn.

2.2.5. Geophysics - UTEM Interpretation

UTEM surveys were carried out over parts of the Myrtle, Grieves and Baura Grids. These surveys and preliminary interpretations of these surveys by Mitre Geophysics, were reported in E.Z. Report No. T205. Subsequently, data from these surveys plus other relevant geophysical, geological and geochemical data were forwarded to H. Rutter for more detailed interpretation. He identified and rated numerous conductors on all three grids.

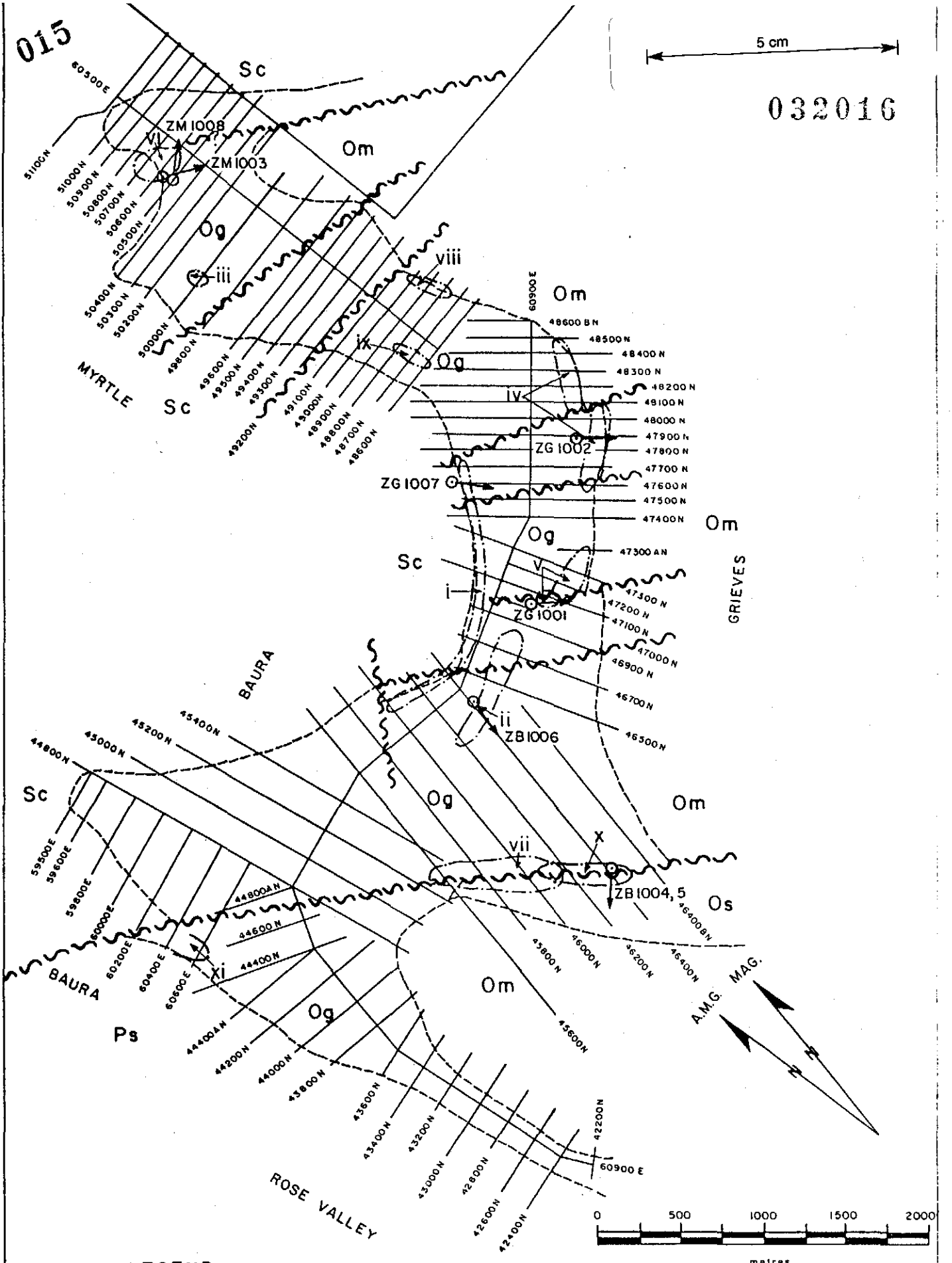
2.2.6. Diamond Drilling (See Fig. 5)

Five diamond drill holes totalling 929m were drilled. Holes were targetted on a combination of geochemical, geophysical and geological criteria. Drilling details are summarized below.

Hole No:	**ZB 1004**	Co-ordinates:	46,405N, 62,292E
Declination:	60°	Azimuth:	235° A.M.G.
Drilling:	0 - 50.0m	Tri cone	
	50-59.0m	HQ - 3	
	Hole abandoned.		
Target:	UTEM anomaly with coincident weak bedrock geochemistry along the Firewood Siding Fault.		

Hole No:	**ZB 1005**	Co-ordinates:	46,406N, 62,293E
Declination:	59.5°	Azimuth:	223° A.M.G.
Drilling:	0 -28.0	Tri cone	
	28 -30.0	HQ WL	
	30 -46.5	Tri cone	
	46.5-96.0m	HQ - 3	
Target:	As for ZB 1004		

Hole No:	**ZB 1006**	Co-ordinates:	46,420N, 60,997E
Declination:	59.5°	Azimuth:	189.5° A.M.G.
Drilling:	0 -7.0	Tri cone	
	7 -107.0	HQ - 3	
	107-203.0m	NQ WL	
Target:	Coincident UTEM and geochemical anomalies within and below the siltstone member of the Gordon Limestone.		



LEGEND

- **Ps** Permian Sediments
- **Sc** Crotty Quartzite
- **Og** Gordon Limestone
- **Os** "Eden Siltstone"
- **Om** Moina Sandstone

~~~ Fault

——— Geological Boundary

i Bedrock Geochemistry Anomalies

E-Z

PROJECT: E L 4/73 ZEEHAN	
BADGER RIVER GRIDS DIAMOND DRILL HOLES	
Compiled: I.MAT Date: 11-4-'86	PLAN NO.
Drawn: R.J.R Scale: N.T.S.	Fig. 5
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Hole No:	**ZB 1007**	Co-ordinates:	47,603N 60,460E
Declination:	69.5°	Azimuth:	147°
Drilling:	0 - 66	Tri cone	
	66 - 121.5	HQ - 3	
	121.5-272	NQ WL	
Target:	To test geochemical anomalies, UTEM anomalies and costean mineralization in the upper Gordon Limestone.		

NOTE: The Mines Department plans to continue this hole through the complete Gordon Limestone sequence.

Hole No:	**ZM 1008**	Co-ordinates:	50,506N 60,345E
Declinations:	59°	Azimuth:	067° AMG
Drilling:	0 - 3.0	Tri cone	
	3 - 95.5	HQ - 3	
	95.5-299.0m	NQ WL	
Target:	Geochemical anomalies around barite lead-zinc mineralization exposed by costeaning.		

Where possible, holes were surveyed at approximately 50m intervals using an Eastman singleshot downhole camera. Holes ZB 1004 and 1005 were not surveyed because of early ground problems and subsequent high rates of water flow.

All drill core was logged in detail. Mineralised intervals and decomposed limestone were halved using a core saw or a knife. Dolomitized intervals of ZB 1007 and the Mines Department drill hole, Grieve Siding 1, were sampled by sawing 10cm of core every 50 to 60m and bulking half the sawn core over geologically controlled intervals of 2-5m. All samples were submitted to Analabs, Burnie for analysis for Cu, Pb, Zn, Fe and Mn. Samples from ZM 1008 were also analysed for Ba.

2.2.7. Geology

During the 1985-86 season, a considerable amount of new geological data was obtained for the Baura Grid. This was obtained from diamond drilling, from soil pits and by mapping the bed of the Badger River during a lengthy dry spell. All new data were added to existing plans and used to produce interpretative geological maps and sections.

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2.2.8. Petrology

7 samples of mineralized dolomite and limestone from ZW0 22, ZW0 26 and Z0 1007 were submitted to Central Mineralogical Services for thin section petrology.

2.3. Results of 1985-86 Exploration

2.3.1. Bedrock Geochemistry - Sample Classification

Inspection of geochemical data, known geology, costean sampling and soil pits indicates that the Wacker samples can also be classified on the basis of their geochemistry combined with the sampler's comments. The combined geochemical behaviour of iron, barium and manganese provides the geochemical signature of the sample. Careful use of these geochemical signatures together with sample descriptions and the results of nearby samples allow the following classifications to be made.

Overburden	sand and gravel Peaty pug and completely decomposed limestone	
Bedrock	Dolomite] Limestone] Siltstone Sandstone	tentative distinction only
Mineralized	Some samples rich in lead and/or zinc have anomalous barium and manganese geochemistry and can only be classified as mineralized.	

The following 'typical' geochemical results are for illustration only. All sample types have wide and overlapping ranges of values.

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Typical Geochemistry (Unmineralized)

Sample Classification	Cu	Pb	Zn	Fe%	Mn	Ba
Overburden						
Sand or gravel	5	30	5	0.20	10	<10
Peaty pug	20	225	415	1.80	10	397
Bedrock						
Limestone	20	40	100	0.80	100	85
Dolomite	10	35	280	0.90	180	90
Siltstone	15	20	135	0.45	40	450
Sandstone	15	30	150	0.20	20	70

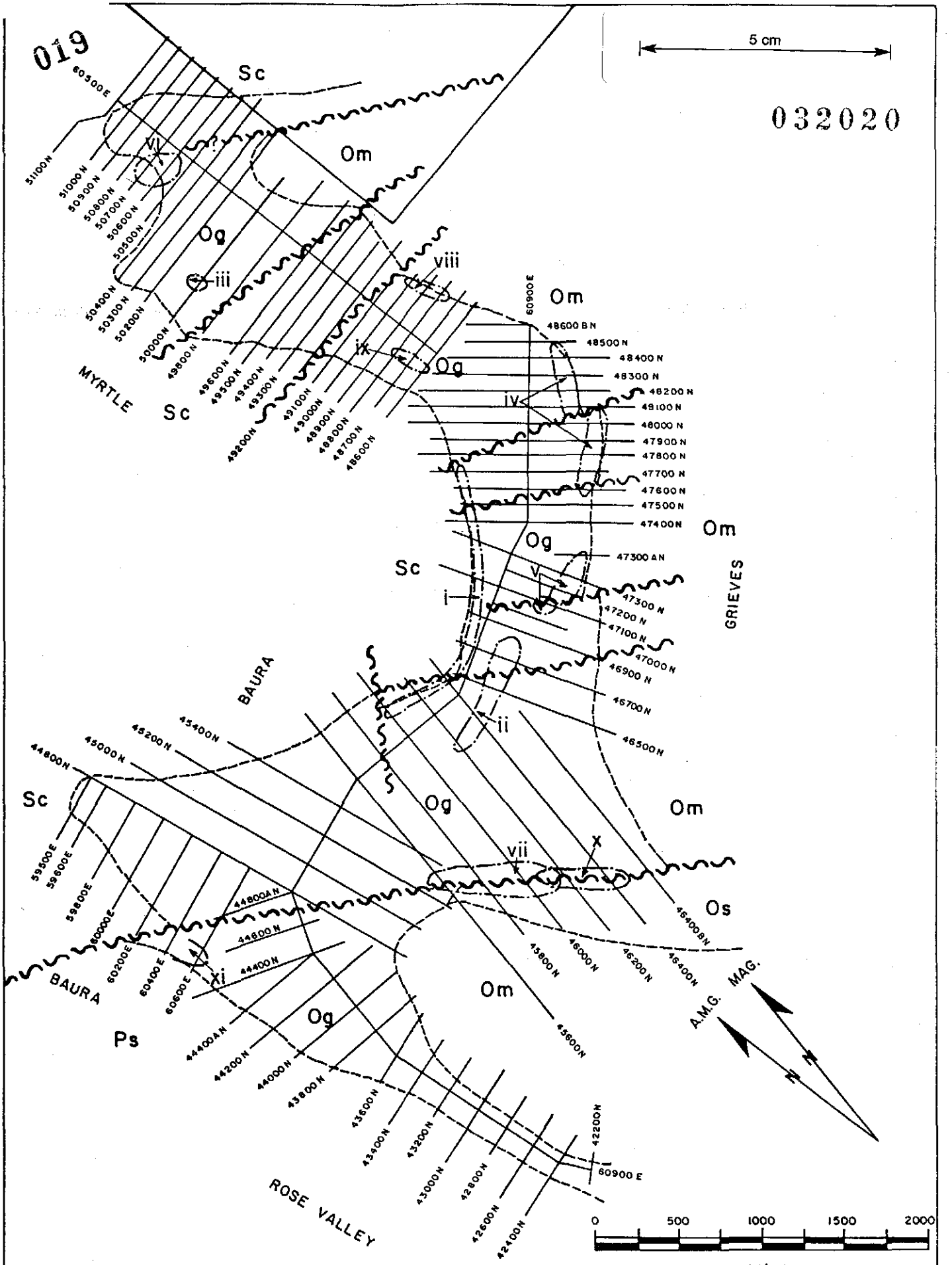
Overburden samples can be considered as bedrock samples that have been extensively modified by the effects of weathering in an acid, reducing, organic rich environment. One significant change is the 5 to 10 times enrichment in immobile elements such as barium and possibly lead by the removal of 80-90% of the rock by dissolution. The behaviour of the partially mobile elements, zinc and iron, is less easily followed. Where H_2S is present, these elements would be immobile while in sulphide poor environments, both would be soluble. The possibility for enrichment of zinc and iron sulphides and carbonates by surface weathering processes cannot be neglected and could not be geochemically distinguished from Ordovician enrichments.

Manganese appears to be completely soluble in this weathering environment.

2.3.2. Bedrock Sampling - Geochemistry

(See Appendix 1, Data Sheets and Plates 1 - 12)

Sample descriptions and analytical results are listed in Appendix 1. Analytical results have been draughted onto the accompanying plans, classified and contoured where possible. In contouring, 'Not Bedrock' samples were ignored while '?Not Bedrock' and 'Overburden' samples were allocated qualified significance.



LEGEND

Ps	Permian Sediments
Sc	Crotty Quartzite
Og	Gordon Limestone
Os	"Eden Siltstone"
Om	Moina Sandstone

Fault

Geological Boundary

i Bedrock Geochemistry Anomalies

E-Z

PROJECT: E.L. 4/73 ZEEHAN

BADGER RIVER GRIDS
GEOCHEMICAL ANOMALIES

Compiled: I.MAT. Date: 20-4-'86

Drawn: R.J.R. Scale: N.T.S.

PLAN NO. Fig. 6

In earlier work, six extended zones which are anomalous in zinc and, to a lesser extent, lead were identified. These six major zinc anomalies and a barium anomaly were discussed in last year's report, T205. Their locations, together with four additional anomalies identified in 1985-86, are shown on Fig. 6. Of the original seven anomalies, identified on Fig. 6 as (i) to (vii), only anomalies (iii) and (vii) have been modified by subsequent work. These modified anomalies, and four new anomalies, (viii) to (xi), are described below.

(i) and (ii) - See E.Z Report T205

(iii) - Two samples 25m apart on line 50,000N at Myrtle reported Cu to 0.14%, Pb to 2.54% and Zn to 4.03%. Additional sampling along lines 50,100N and 49,900N found no continuation of this anomaly along strike.

(iv), (v) and (vi) - See E.Z. Report T205.

(vii) - An area around the Firewood Siding Fault at Baura has elevated barium. At first this anomaly was thought to be associated with the fault. However, a lithological association with a siltstone unit south of the fault appears more likely.

(viii) - At the eastern end of lines 48,800N and 49,000N at Myrtle, four samples reported anomalous zinc from 460-1300 ppm. Two of these samples are weakly anomalous in lead, one is anomalous in barium and the four samples and surrounding samples are enriched in manganese. This anomaly appears to be a weaker development of anomaly (iv).

(ix) - Weak lead and zinc anomalies occur just above and below the siltstone unit on the southern end of the Myrtle Grid. These are much less persistent than similar anomalies at Grieves and Baura (Anomaly ii).

(x) - Weakly elevated zinc values were reported by four samples on 46,400N and one sample on 46,000N. This anomaly is spatially associated with the Firewood Siding Fault.

(xi) - Four samples on the western end of line 60,600E at Baura reported elevated zinc values (500-2,285 ppm). Very weakly elevated lead and manganese values are associated. These samples have the geochemical characteristics of limestone or dolomite bedrock and lie close to the intersection of the ?faulted contact between Permian Sediments and the Gordon Limestone

TABLE 1 - SOIL PITS - BAURA GRID

Sample No.	Co-ordinates		Type	Description	Colour	Bedrock	Cu	Pb	Zn	Fe%	Mn	Ba
61586	44,800N	61,550E	Soil	Muddy sand and clay	Gy Bk	No	5	25	100	0.41	20	13
61587	"	"	Rock	Sideritized DOLOMITE	Br Gy	Yes	<5	45	195	0.63	310	<10
61844	"	"	Wacker	No Sample								
61588	44,800N	61,475E	Soil	Clay, sandy	Gy	No	10	155	375	0.45	25	137
61589	"	"	Rock	LIMESTONE BRECCIA	Dk Gy	Yes	5	35	115	0.82	115	24
61841	"	"	Wacker	Clay, sandy	Lt Bn Gy	No	10	40	305	0.67	110	18
62590	45,600N	60,600E	Soil	Clayey sand	Gy	No	10	3690	1850	1.54	45	132
62591	"	"	Rock	DOLOMITE	Dk Gy	Yes	<5	410	185	0.67	300	11
61713	"	"	Wacker	Weathered rock frags	Dk Gy	Yes	5	320	220	0.76	305	12
62592	46,000N	61,050E	Soil	Clayey sand	Lt Br	No	<5	55	5	0.19	5	104
62593	"	"	Rock	Soft SILTSTONE	Lt Br	yes	<5	600	20	0.42	15	362
61627	"	"	Wacker	Clayey weathered rock	Lt Br	Yes	5	200	<5	0.40	25	325

with the Firewood Siding Fault.

Numerous other isolated one sample anomalies have been reported. These are not considered significant unless they have additional geological or geophysical support.

2.3.3. Soil Pits (See Table 1)

All soil pits were dug where the overburden was shallow. The sampler's assessment of his samples was found valid in the three sites tested. In addition, the samples at 45,600N 60,600E illustrates the type of enrichment anticipated when a carbonate rock is weathered to pug. In this example there is a tenfold enrichment of lead, zinc and barium with an associated depletion in manganese. The moderate iron enrichment is normal. However iron is less reliable than the barium and manganese values as an indicator of overburden. The samples at 44,800N 61475E illustrate the unreliability of iron.

2.3.4. Winkie Drilling (See Appendix 2 - Winkie Drill logs and sections)

Eight of the 16 holes drilled at Myrtle and Grieves intersected lead or zinc mineralization. ZWM 13, 14, 15, 19 and 19A intersected low grade mineralization in the overburden, ZWM 18 intersected low grade, cavity infilling sphalerite in limestone and ZWM 22 and 26 intersected higher grade lead-zinc mineralization in altered, sideritized and brecciated limestone. This mineralization with grades up to 17.5% Zn and 1.5% Pb over 0.8 metres is thought to be predominantly in carbonate minerals.

Summary drill logs and significant assays for all Winkie holes drilled since April, 1985 follow:-

ZWM 13 - Summary Log

0 - 8.55	No core
8.55-24.75	DECOMPOSED SILTSTONE
24.75-25.15	SILTSTONE

Mineralization:

Secondary pyrite 8.55 - 12.8

Significant Assays:

8.55 - 12.8 1.5% Zn

ZWM 14 - Summary Log

0 - 2.3	No core
2.3 - 12.9	DECOMPOSED SILTSTONE
12.9 - 15.0	SILTSTONE, some coarse galena and sphalerite
15.0 - 25.9	No core recovered.

Mineralization:

12.9-15.0 - lumps of galena and coarse brown sphalerite fill ellipsoidal vughs in decomposed siltstone.

Significant Assays:

12.9-15.0 1.6% Pb, 3.9% Zn

ZWM 15 - Summary Log

0 - 1.7	No core
1.7 - 22.9	DECARBONATIZED LIMESTONE
22.9 - 38.1	DOLOMITE and DOLOMITIC SILTSTONE

No visible mineralization

Significant Assays:

2.4 - 13.7 2.1% Zn (10% recovery)

ZWM 16 - Summary Log

0 - 5.8	No core
5.8 - 19.8	DECOMPOSED SILTSTONE
19.8 - 22.3	DOLOMITIC SILTSTONE

No visible mineralization

No assays.

ZWM 16A - Summary Log

0 - 18.0	No core
18.0 - 18.6	DECOMPOSED SILTSTONE
18.6 - 22.5	LIMESTONE
22.5 - 25.6	DOLOMITE
25.6 - 28.6	LIMESTONE, minor pyrite

No visible mineralization

No assays.

024

ZWM 17 - Summary Log

0 - 6.1	No core
6.1 - 15.3	DECOMPOSED SILTSTONE and PUG
15.3 - 16.9	QUARTZ VEIN

Mineralization:

Trace chalcopyrite in quartz.

No assays.

ZWM 18 - Summary Log

0 - 6.7	No core
6.7 - 13.9	DECARBONATIZED LIMESTONE
13.9 - 31.3	LIMESTONE

Mineralization:

Minor sphalerite in veinlets and infilling small cavities.

No assays.

ZWM 19 - Summary Log

0 - 11.3	No core
11.3 - 24.7	LIMESTONE

Mineralization:

No visible mineralization in Limestone. Coarse spahlerite in overburden.

No assays.

ZWM 19A - Summary Log

0 - 1.5	No core
1.5 - 11.5	PUG and DECOMPOSED LIMESTONE
11.5 - 11.6	LIMESTONE

Mineralization:

Coarse sphalerite and minor galena in overburden as grains and veinlets.

No assays.

ZWG 20 - Summary Log

0 - 2.6	No core
2.6 - 14.9	LIMESTONE

No visible mineralization

No assays.

025

ZWG 21 - Summary Log

0 - 4.8	No core
4.8 - 35.6	LIMESTONE

No visible mineralization

No assays.

ZWG 22 - Summary Log

0 - 7.7	No core
7.7 - 11.4	LIMESTONE
11.4 - 12.2	MINERALIZED LIMESTONE
12.2 - 16.0	LIMESTONE

Mineralization:

11.4-12.2 Limestone is sideritized and moderately dense. No visible sulphides.

Significant Assays:

11.4-12.2	Pb 1.5%, Zn 17.5%.

ZWG 23 - Summary Log

0 - 7.3	No core
7.3 - 11.4	SILTY LIMESTONE
11.4 - 22.8	LIMESTONE

Mineralization:

0.5cm sphalerite-calcite veinlet at 20.9.

Significant Assays:

20.0-21.0	Pb 170 ppm, Zn 2,190 ppm.

ZWG 24 - Summary Log

0 - 7.3	No core
7.3 - 9.1	LIMESTONE
9.1 - 12.4	LIMESTONE, with cavities and two thin bands brown and green SILTY LIMESTONE
12.4 - 13.0	SILTSTONE, brown

No visible mineralization

No assays

026

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ZW6 25 - Summary Log

0 - 3.4	No core
3.4 - 11.9	SANDSTONE and SILTSTONE, reddish brown
11.9 - 20.9	LIMESTONE, thin bands brown SILTSTONE
20.9 - 22.6	CAVITY
22.6 - 24.2	LIMESTONE, 1cm brown SILTSTONE in a fracture

No visible mineralization.

No assays.

ZW6 26 - Summary Log

0 - 5.3	No core
5.3 - 11.9	LIMESTONE, brecciated and sideritized in patches.
11.9 - 15.8	LIMESTONE
15.8 - 22.4	LIMESTONE, brecciated and sideritized in patches with associated thin calcite veins.

Mineralization:

Obvious sideritization around brecciated zones. Minor galena observed around a calcite vein at 19.2m.

Assays:

Entire hole mineralized.

Range	0.6% - 7.25% Zn and 0.2- 1.80% Pb
Best Assay	10.0-11.9 0.95% Pb, 7.25% Zn.

2.3.5. UTEM Interpretation (See Appendix 3)

Hugh Rutter identified numerous anomalous effects from the UTEM profiles over Myrtle, Gries and Baura. These agree well with the conductors previously identified by Bishop (See T205). However, Rutter, with the aid of geological interpretation, overburden thickness and gravity data, was able to classify the data. Anomalies were rated from lowest, those caused by overburden conditions, to highest, which are those interpreted as coming from a bedrock source. All the latter group were rated as weak to moderate conductors.

Anomalies identified as worthy of further exploratory drilling are described in Rutter's report (Appendix 3). In particular, significant anomalies were identified near the Professor, Grieves and Firewood Siding Faults.

027

2.3.6. Diamond Drilling (See Appendix 4 - Diamond drill logs)

Drilling of the Gordon Limestone and associated siltstone and sandstone proved expensive. To maximize recovery of the frequently decomposed rock, heavy mud mixture and HQ triple tube were used in the upper 100m or so of the holes. Overall recovery in 1985-86 was much better than in previous years. Consequently, good quality geological information was obtained from all drill holes.

Only two of the holes intersected signifiant mineralization. ZB 1007 intersected 3.7m of 1.34% Zn within dolomitic limestone and ZM 1008 recovered galena, sphalerite and barite from 2.5m of leached limestone (15% recovery) which assayed 1.3% Pb, 2.7% Zn and 8.9% Ba. This mineralization occurred at the contact between decomposed siltstone and fresh limestone.

ZB 1004 - Summary Log

0 - 50.0	Non core drilling
50.0 - 58.5	OOLITIC LIMESTONE, dolomitized and fractured
58.5 - 59.0	DECOMPOSED LIMESTONE, pyritic

Significant Assays - Nil.

ZB 1005 - Summary Log

0 - 28.0	Non core drilling
28.0 - 30.0	PUG and DOLOMITE
30.0 - 46.5	Non core drilling
46.5 - 58.0	OOLITIC LIMESTONE, dolomitized and fractured.
58.0 - 73.8	DECOMPOSED LIMESTONE AND MARL
73.8 - 82.8	DECOMPOSED MARL AND SILTSTONE
82.8 - 91.2	SILTSTONE, SANDSTONE and GRIT. Includes some quartzite pebbles
91.2 - 93.0	QUARTZITE
93.0 - 93.9	CONGLOMERATE, quartzite pebbles, some pyrite cement.
93.9 - 96.0	QUARTZITE

Significant Assays:

Hole split and sampled to 93.9m - maximum Zn 620 ppm in decomposed limestone.

028

ZB 1006

0 - 79.5	Siltstone member of Gordon Limestone
0 - 7.0	Non core drilling
7.0-33.6	SILTY LIMESTONE and SILTSTONE
33.6-39.0	LIMESTONE, patchy dolomitization
39.0-66.2	LIMESTONE, often fractured, leached, partially decomposed. Calcite veining.
66.2-79.5	LIMESTONE and SILTY LIMESTONE
79.5 - 203.0	Lower Gordon Limestone
79.5-113.2	LIMESTONE
113.2-120.5	SILTY LIMESTONE
120.5-163.7	LIMESTONE
163.7-174.2	SILTY LIMESTONE and LIMESTONE
174.2-203.0	LIMESTONE

Significant Assays:

No samples - unmineralized.

ZB 1007

0 - 81.6	Crotty Sandstone
0- 66.0	Non core drilling
66.0-73.3	SILTSTONE and SANDSTONE, partially decomposed
73.3-81.6	SILT and PUG, friable
81.6 - 250.5	Upper Gordon Limestone
81.6-85.2	DOLOMITIC PUG
85.2-133.9	CALCAREOUS DOLOMITE, late pyrite along irregular veins 121.7-128.6
133.9-136.5	DOLOMITIC LIMESTONE BRECCIA, debris flow
136.5-140.5	DOLOMITIC LIMESTONE
140.5-149.0	DOLOMITE, late calcite veins leached out
149.0-152.0	CAVITY, no recovery
152.0-155.7	DOLOMITIC LIMESTONE
155.7-207.2	CALCAREOUS DOLOMITE, network of calcite veinlets and patches
207.2-222.0	DOLOMITE
222.0-233.2	LIMESTONE and SILTY LIMESTONE
233.2-250.5	LIMESTONE DEBRIA FLOW BRECCIA

029

250.0 - ?	Siltstone member of Gordon Limestone
250.0-265.5	SILTSTONE AND LIMESTONE
265.5-272.0	SILTY LIMESTONE

Significant Assays:

Hole sampled 66.0-254.4

152.0-155.7m 0.3% Pb, 1.34% Zn

ZM 1008 - Summary Log

0 - 3.0	Non core drilling
3.0 - 56.5	PUG and DECOMPOSED SILTSTONE
56.5 - 60.0	MINERALIZED LEACHED LIMESTONE
60.0 - 105.5	LIMESTONE
105.5 - 128.0	SILTY LIMESTONE and SHEARED LIMESTONE
128.0 - 181.9	LIMESTONE
181.9 - 200.3	LIMESTONE and SILTY LIMESTONE
200.3 - 233.0	LIMESTONE, sheared
233.0 - 278.0	SHELLY LIMESTONE, very coarse
278.0 - 289.0	SILT = ?CAVITY
289.0 - 299.0	LIMESTONE

Significant Assays:

Hole sampled 0 - 63.8m

56.5 - 60.5 1.3% Pb, 2.7% Zn, 8.9% Ba

2.3.7. Geology (Plates 13, 14, 15)

Table 2 summarizes the stratigraphic succession as currently understood. Most of the data tabulated and the unit descriptions below were reported in E.Z. Report T205. New drilling, additional geological mapping and careful use of bedrock geochemical data have led to modification of the earlier interpretation.

Moine Sandstone:

This unit underlies the Gordon Limestone. It contains siliceous quartz arenite, tubicolar sandstone, pebbly quartz arenite, and siliceous conglomerate. Conglomerate pebbles are predominantly of quartrz, quartzite and chert. The

TABLE 2 - STRATIGRAPHIC COLUMN - Badger River Area

AGE	UNIT	THICKNESS	LITHOLOGY	SOURCES OF DATA	COMMENTS (Known Mineralisation)
Silurian - - ? - -	Crotty Quartzite (Sc)	~ 400m	Fine to coarse grained, friable lithic and feldspathic quartz arenite, silty quartz sandstone, quartz siltstone. Weathers white.	Field mapping. Grieves Siding 1	
Upper Ordovician	GORDON LIMESTONE Upper Limestone (Ogu)	100–200m	Dolomitic limestone, dolomite, dolomitic siltstone dolomitic sandstone, carbonaceous lime mudstone, micritic limestone and silty limestone. Limestone debris flow breccia intersected by ZG 1007	ZG 1007 Grieves Siding 1 Costean L47,600N Costean L50,200N Costean L48,600N ZWG 9	Mineralised dolomitic Limestone in Costean L47,600N and ZG 1007 ?Banded galena-sphalerite ?veins in costean L50,600N?
	Siltstone Member (Ogs)	50–75m	Fossiliferous siltstone, finely laminated siltstone, marly siltstone, silty limestone and limestone	A. Ellis Thesis Field Mapping ZB 1006 ZG 1007	
	Lower Limestone (Ogl)	350–400m	Variably dolomitised limestone - lime mudstone, laminated limestone, bioclastic lime wackestone, coralline and shell fossiliferous lime mudstone. Subordinate oolitic, pelletal and bioclastic lime grainstone, oncolitic limestone, silty limestone and sandy limestone. Occasional thin siltstone and sandstone beds.	ZG 1001, ZM 1003 ZWG 1 - 7, 22, 26 Costean L47,100N ZWG 11-12 ZWG 20 - 26 ZG 1002 ZB 1004, 1005, 1006 ZM 1008	?Costean L50,500N - Ba. Restricted lenses of mineralised sedimentary limestone breccia. Sulphide clasts and sphalerite, galena and zinc carbonates in matrix.
	Oolitic Member (Ogo)	0–30m	Recrystallised and sideritised oolitic lime grainstone and clastic limestone breccia.	ZG 1002 Grieves Mine Workings. Costeans L47,800N, 47,900N, 48400N ZB 1004, 1005	Extensive low grade zinc carbonate mineralisation. some drusy sphalerite and galena.
- - ? - - Middle Ordovician	Basal Units	10–20m	Muddy siltstone and silty sandstone - probably calcareous.	ZG 1002 ? ZB 1005	
	Eden Siltstone	0–150m	Thick micaceous siltstone unit at Baura	Field Mapping ? ZB 1005	
	Moina Sandstone (Om)	500m	Siliceous and silicified pebbly quartz arenite, quartz arenite, quartz arenite with vertical burrows, pebble and cobble conglomerate.	ZG 1002 Field mapping ZB 1005	

030

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Moina Sandstone overlies similar conglomerate, pebbly grit and quartz arenite of the Mt. Zeehan Conglomerate. These siliceous rocks weather white, cream, pink or light brown and now outcrop as part of an elevated peneplaned surface of Tertiary Age.

Ordovician Siltstone:

A Grieves and Baura, siltstone units occur between the Moina Sandstone and the Gordon Limestone. At Baura, massive micaceous siltstone, the Eden siltstone, overlies the Moina Sandtsone south of the Firewood Siding Fault. In ZB 1005 pebbly sandstone and a thin conglomerate bed, at the base of the Eden siltstone contain pebbles of the underlying quartzite. These demonstrate an uncomformable relationship in this area. The Eden siltstone is probably greater than 100m thick.

At Grieves, thin decomposed ?calcareous siltstone and silty sandstone occur between the Moina Sandstone and the overlying Gordon Limestone. The intersection in ZB 1002 suggests a thickness of 20-30m for this unit.

Gordon Limestone:

Four members of the Gordon Limestone can be defined. These are the oolite member, the lower limestone member, the siltstone member and an upper limestone member.

The oolite member is known from around the old Grieves Mine and from ZB 1004 and 1005 near the Firewood Siding Fault. In both places well sorted, dolomitised, recrystallised oolitic grainstone occurs near the base of the Gordon Limestone. These may have been deposited in restricted carbonate bank complexes.

The lower limestone member consists predominantly of lime mudstone, and finely clastic wackestone. Irregular compaction and dolomitization of these rocks have developed the mesoscopic rock types "Patchy Limestone", "Banded Limestone" and "Nodular Limestone". Together with subordinate laminated lime mudstone, occasional grainstone and coral, gastropod and brachiopod fossils they indicate an intertidal environment for most of this member.

0 032

The siltstone member outcrops along most of the Badger River valley as a low ridge. Drill holes ZB 1006 and ZG 1007 indicate that this unit is much more carbonate rich than is suggested by surface exposures. Rock types include laminated siltstone, calcareous siltstone, silty limestone and limestone. Many beds within this unit are extremely fossiliferous. Faunal evidence indicates a sub-tidal environment of deposition (Ellis, 1984).

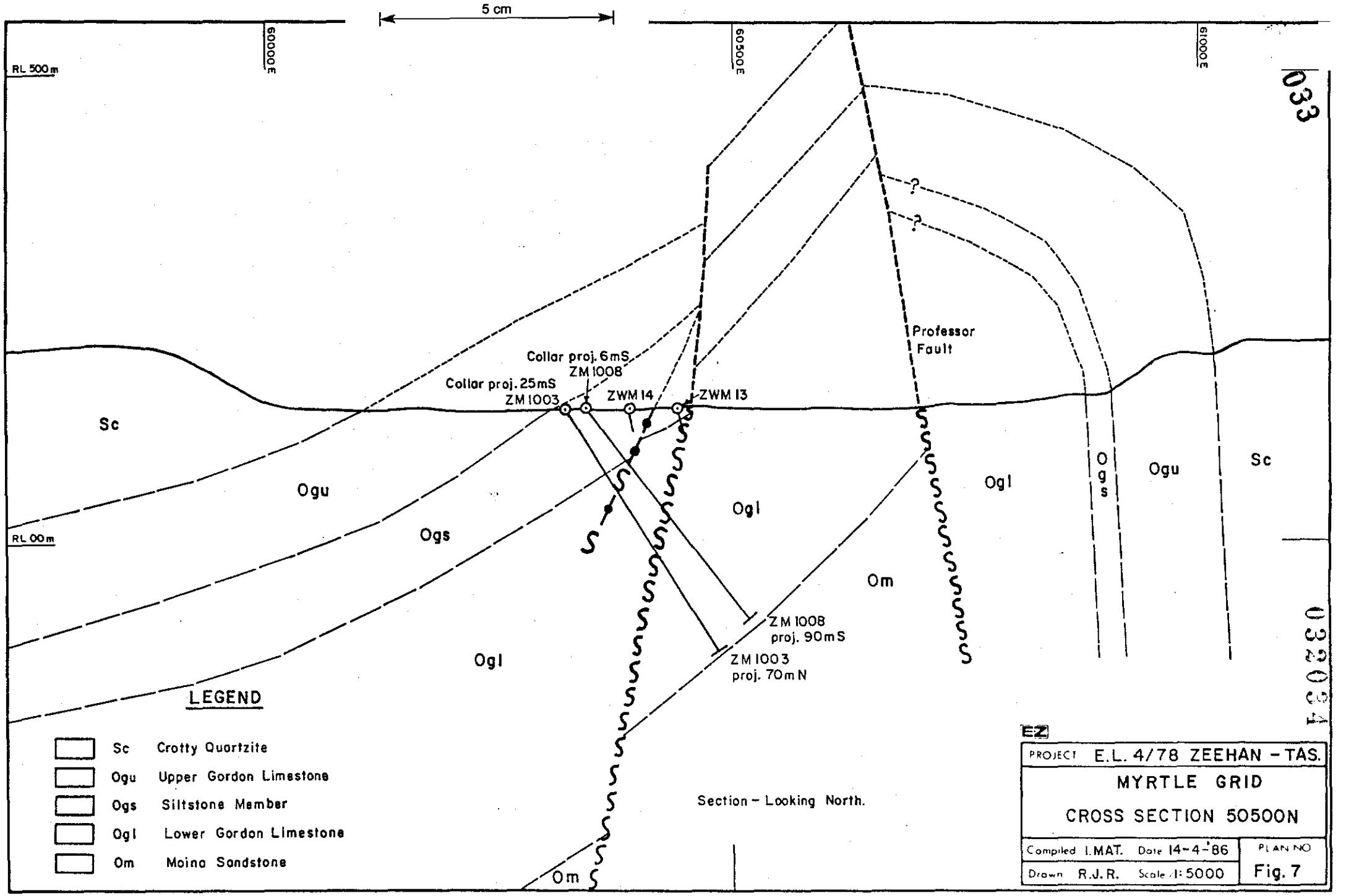
The upper limestone member is best known from ZG 1007 and Grieve Siding 1. Extensively dolomitized lime wackestone is the predominant rock type. Subordinate debris flow limestone breccia and grainstone suggest some instability within an otherwise stable depositional environment.

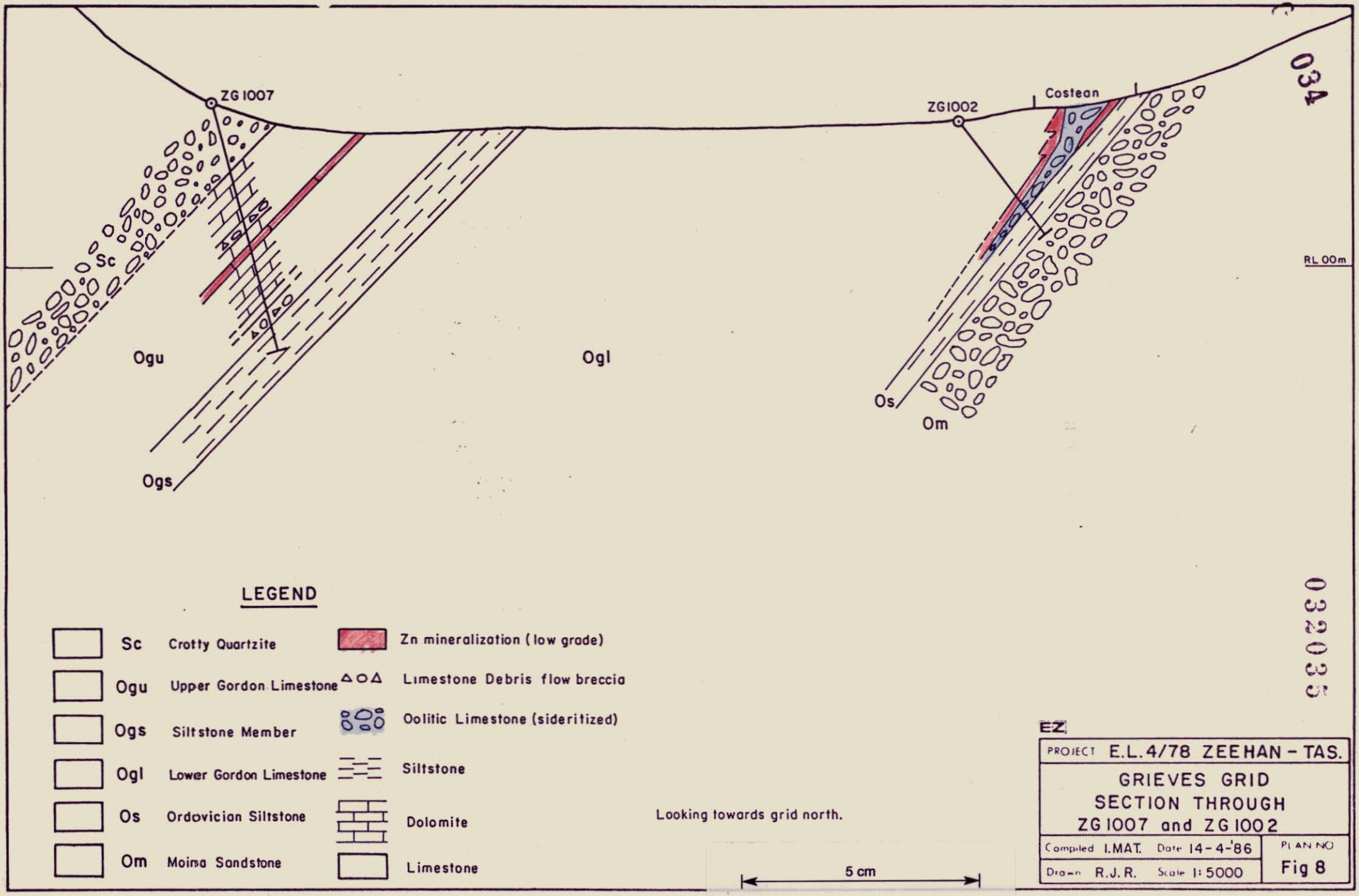
Crotty Quartzite:
This unit overlies the Gordon Limestone in most of the mapped area. It consists of white weathering silty sandstone, quartz sandstone and quartz siltstone. In ZG 1007 and Grieve Siding 1 the unit is deeply weathered to friable fine sand, silty sand and clay.

Permian Sediments:
These outcrop along the western portion of the Baura and Rose Valley Grids south of the Firewood Siding Fault. Carbonaceous siltstone, sandstone and pebble conglomerate outcrop in the Badger River.

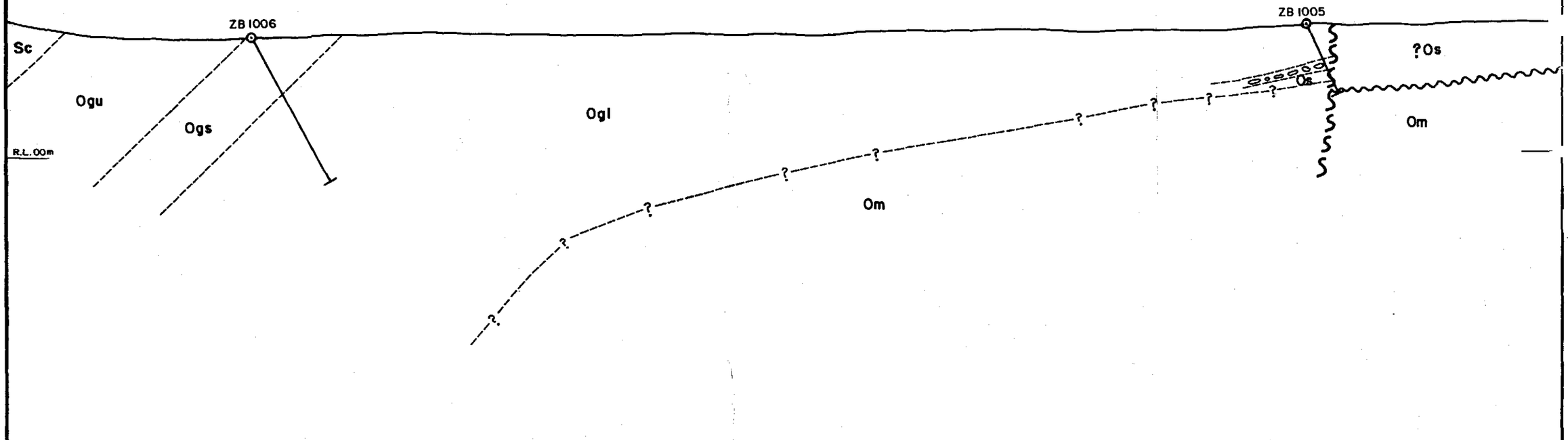
All members of the Gordon Limestone are easily followed across the Baura, Grieves and southern portion of the Myrtle Grid. In Rose Valley the sequence is much thinner. The siltstone member appears to be absent south of the Firewood Siding Fault. At Myrtle, north of line 49,800N, syndepositional faulting together with later faulting and folding make interpretation more difficult. Development of the siltstone member appears patchy and the whole sequence seems to thin north of the Professor Fault.

Interpretative sections using drill hole intersections across Myrte, Grieves and Baura are presented as Figures 7, 8, and 9, while Plates 13, 14, and 15 show the overall interpretation. Of note are the tight anticlines at Myrtle, the north plunging anticline at Baura and the broad syncline plunging very shallowly northwards across the Baura Grid.


5 cm
RL 500m
RL 00m
600000E
605000E
610000E
033
Collar proj. 6mS
ZM 1008
Collar proj. 25mS
ZM 1003
ZWM 14
ZWM 13
Professor
Fault
Sc
Ogu
Ogs
Ogl
Om
Ogs
Ogu
Sc
ZM 1008
proj. 90mS
ZM 1003
proj. 70m N
LEGEND
Sc Crotty Quartzite
Ogu Upper Gordon Limestone
Ogs Siltstone Member
Ogl Lower Gordon Limestone
Om Moina Sandstone
Section – Looking North.
EZ
PROJECT E.L. 4/78 ZEEHAN – TAS.
MYRTLE GRID
CROSS SECTION 50500N
Compiled I.MAT. Date 14-4-86
Drawn R.J.R. Scale 1:5000
PLAN NO
Fig. 7
032034


ZG1007
ZG1002
Costean
034
RL 00m
Sc
Ogu
Ogl
Ogs
Os
Om
LEGEND
Sc Crotty Quartzite
Ogu Upper Gordon Limestone
Ogs Siltstone Member
Ogl Lower Gordon Limestone
Os Ordovician Siltstone
Om Moina Sandstone
Zn mineralization (low grade)
Limestone Debris flow breccia
Oolitic Limestone (sideritized)
Siltstone
Dolomite
Limestone
Looking towards grid north.
5 cm
EZ
PROJECT E.L.4/78 ZEEHAN - TAS.
GRIEVES GRID
SECTION THROUGH
ZG1007 and ZG1002
Compiled I.MAT. Date 14-4-'86
Drawn R.J.R. Scale 1:5000
PLAN NO
Fig 8
032035

032036



610019E

615019E

620019E

625019E

LEGEND

Sc	Crotty Quartzite
Ogu	Upper Gordon Limestone
Ogs	Siltstone Member
Ogl	Lower Gordon Limestone
Os	Ordovician Siltstone
Om	Moina Sandstone
	Oolitic Limestone
	Unconformity

Looking grid north.

5 cm

1:250000 SHEET

SCALE
0 100 200 300 400
metres

EZ
ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
MINERAL RESOURCES DIVISION

PROJECT: E.L. 4/78 ZEEHAN , TAS.

BAURA GRID

SECTION THROUGH 46400N

Compiled: I. MAT.	Date: 14-4-'86	Scale 1:5000	
Latitude:	Longitude:		PLAN NO
Drawn: R.J.R.	File No:		Fig. 9

033

Trimline A3 for binding within text

Trimline A3 for report pockets

2.3.8. Petrology (See Appendix 5)

The altered limestone and dolomite from ZWG 22 and ZWG 26 carry disseminated fine to ultrafine grained pyrite, galena and occasionally sphalerite. Sphalerite contents are insufficient to explain the zinc assays of these rocks. On this basis, Cowan (Appendix 5) interpreted the sideritic carbonates as zincian or smithsonitic.

Samples from ZG 1007 contained zones dolomitic rhombs and syngenetic pyrite and galena. Rare pale sphalerite occurred in some vughs. Cowan suggested that the high R.I. cores of the zoned dolomites may be enriched in zinc.

3. PYRAMID GRID

3.1. Previous Exploration

A wedge shaped outcrop of Gordon Limestone occurs along Pyramid Creek. Small lead shows are known from the Pyramid Mine near the western edge of this wedge. Previous E.Z. exploration using Jacro auger sampling, costeaning and geological mapping indicated that there was little likelihood that a significant body of mineralization lies near the old workings. However it was also obvious that a large part of the outcrop, especially that between the Strahan Road and the Little Henty River, had not been tested.

1985-86 exploration aimed at testing this area.

3.2. Work Completed - May, 1985 to April, 1986

3.2.1. Deep Bedrock Sampling

Wacker sampling of the Pyramid Grid was completed. 138 samples were collected along 10 lines. An initial sample interval of 25m along lines 200m apart was used to cover the low lying, boggy portions of the grid where the thick overburden may have covered subcropping limestone. Line spacings were subsequently reduced to 100m around the Pyramid Mine and to follow up an anomalous sample on line 1100N. Sample preparation, analysis and treatment of analytical results was as for the Badger River samples.

037

3.2.2. Winkie Drilling

Seven shallow diamond drill holes were drilled using the Winkie drill. All holes were sited to investigate the significance of geochemical results. Drilling details are summarized below:

Hole		DRILLING Open Hole	TT46 Core	Core Recovery
ZWP	27	0 - 5.7m	5.7 - 10.1m	50%
	28	0 - 5.8	5.8 - 8.1	45%
	29	0 - 3.8	3.8 - 16.7	60%
	30	0 - 6.4	6.4 - 18.6	15%
	31	0 - 8.2	8.2 - 11.6	70%
	32	0 - 5.3	5.3 - 27.4	65%
	33	0 - 7.6	7.6 - 13.0	65%

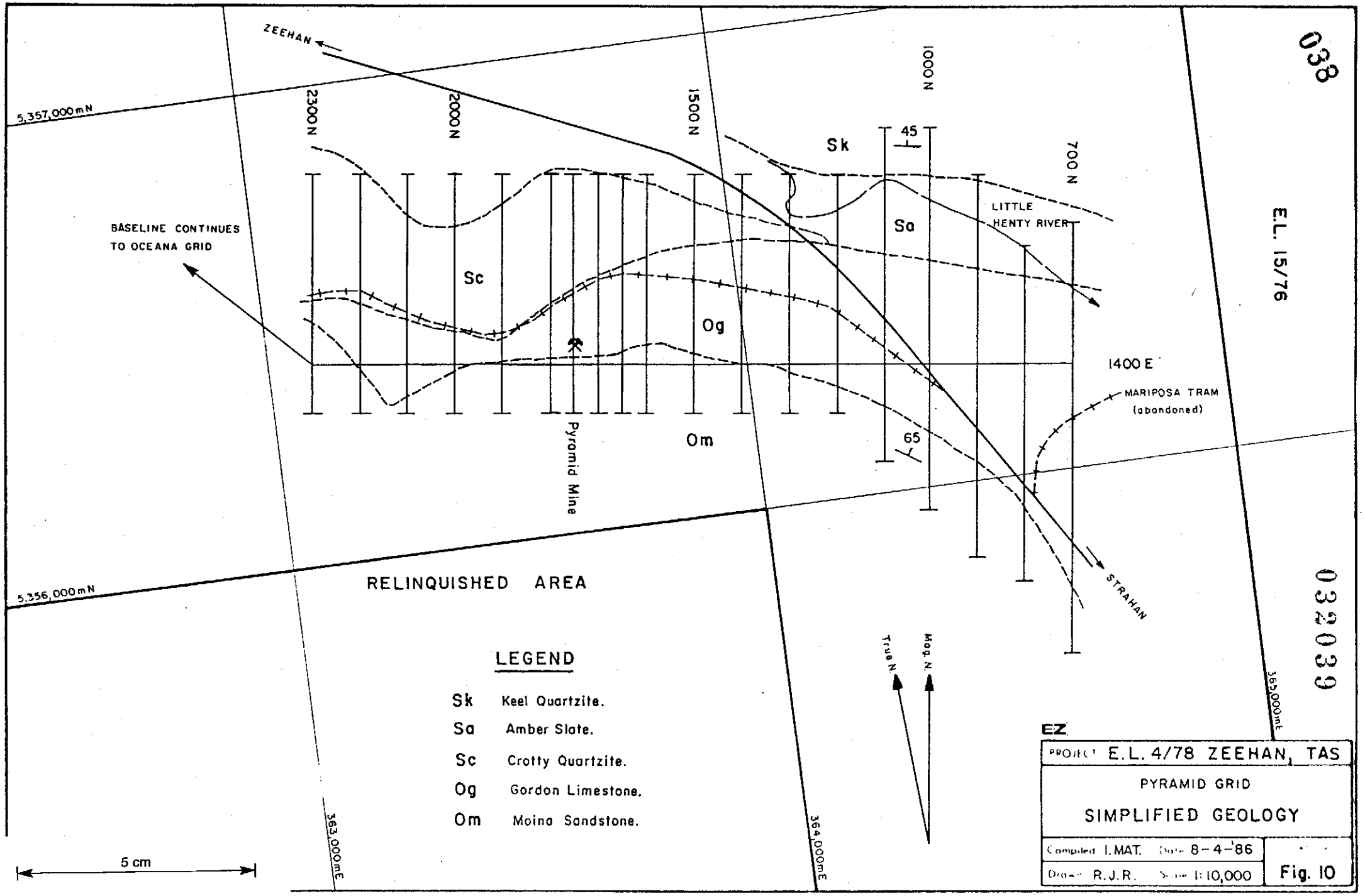
Drill core was logged in detail. Selected mineralized and unmineralized intervals were split and analysed for Cu, Pb, Zn, Fe and Mn.

3.3. Results of 1985-86 Exploration

The Pyramid Grid was laid out with the nominally north-south base line, oriented almost west-east. In the following discussion all directions are relative to true north unless prefixed by the word 'grid'.

3.3.1 Geology (See Fig. 10)

Exploration at Pyramid is directed at the Gordon Limestone. In the grid northern part of the grid, this unit is narrow and outcrops between hills of Moina Sandstone to the grid west and Crotty Quartzite to the grid east. Further to the grid south the Gordon Limestone widens out. Grid south of the Strahan Road the Crotty Quartzite thins completely out and the Gordon Limestone is overlain by siltstones of the Amber Slate.


038
ZEEHAN
5,357,000 mN
2300 N
2000 N
1500 N
1000 N
700 N
Sk
45
Sa
LITTLE HENTY RIVER
BASELINE CONTINUES TO OCEANA GRID
Sc
Og
Om
Pyramid Mine
1400 E
MARIPOSA TRAM (abandoned)
65
STRAHAN
E.L. 15/76
RELINQUISHED AREA
5,356,000 mN
LEGEND
Sk Keel Quartzite.
Sa Amber Slate.
Sc Crotty Quartzite.
Og Gordon Limestone.
Om Moina Sandstone.
True N
Mag N
363,000 mE
364,000 mE
365,000 mE
5 cm
EZ
PROJECT E.L. 4/78 ZEEHAN, TAS
PYRAMID GRID
SIMPLIFIED GEOLOGY
Compiled I.MAT. Date 8-4-86
Drawn R.J.R. Scale 1:10,000
Fig. 10
032039

3.3.2. Bedrock Geochemistry - Wacker Sampling (Plates 16, 17, 18, 19)

Bedrock sampling has effectively tested the Gordon Limestone at Pyramid. Of the 139 samples collected, 12 were identified as 'not bedrock' by sample descriptions, a further 14 were classified as 'overburden' by their geochemical signature while four remain possibly 'not bedrock'. This leaves 109 samples which are considered to represent partially decomposed bedrock. Most of the 'not bedrock' and 'overburden' samples were collected from sandstone and siltstone units overlying and underlying the limestone.

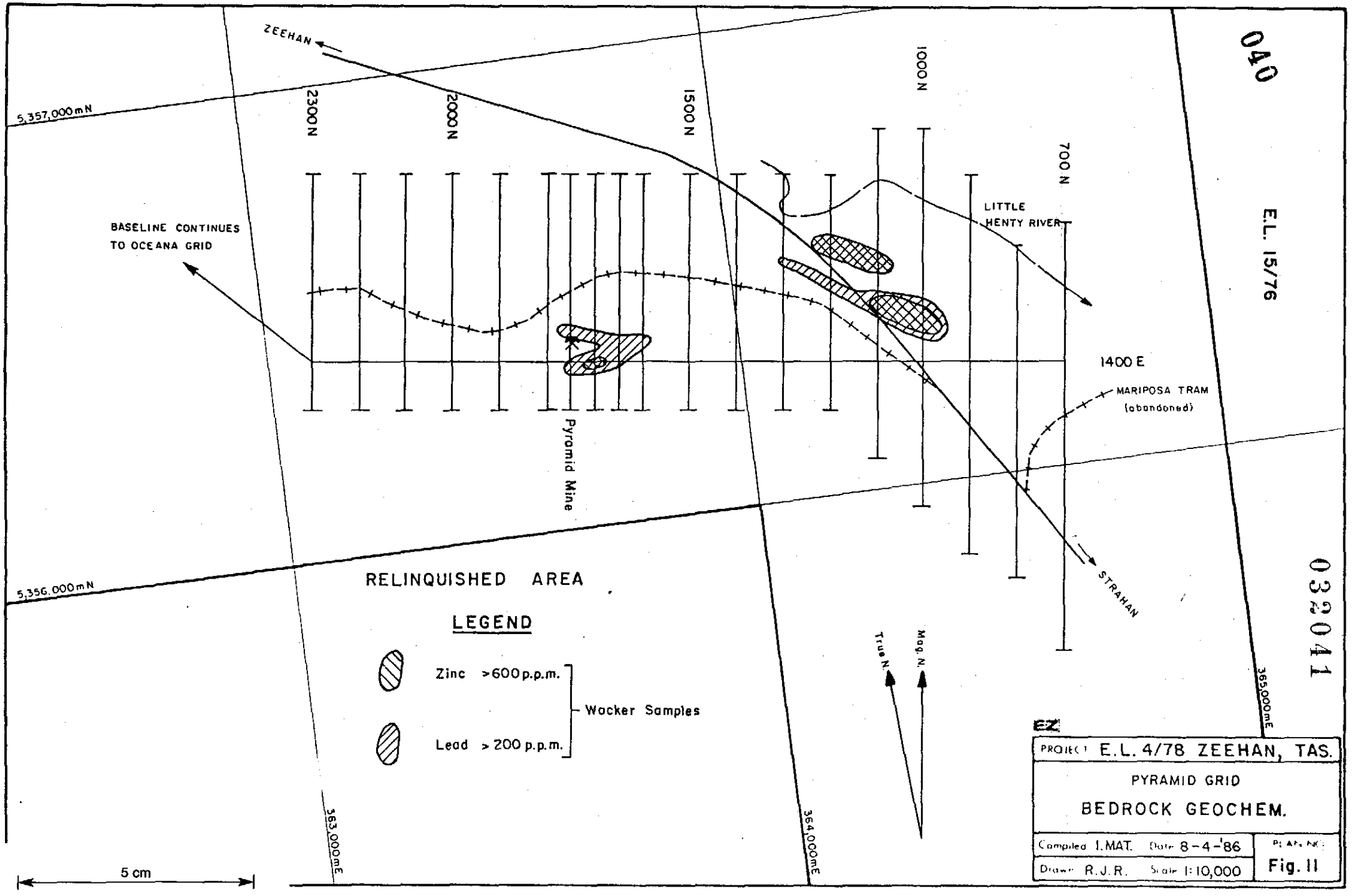
Samples were analysed for Cu, Pb, Zn, Fe, Mn and Ba. Of these Pb, Zn and Mn appear most useful. Barium as well as indicating the degree of decomposition of the sample, also nicely discriminates between Gordon Limestone and overlying siltstones west of the road.

Three significant zinc anomalies, three weaker lead anomalies and four areas of anomalous manganese were outlined by contouring the analytical results. A zone of coincident zinc, lead and manganese anomalism lies around the old Pyramid Mine on lines 1600N to 1800N. Both lead and zinc values here are quite low.

A stronger coincident Pb, Zn and Mn anomaly lies towards the grid eastern end of lines 1100N and 1200N. Peak values here are 9995 ppm Zn and 5930 ppm Zn. This anomaly lies at the top of the Gordon Limestone just below overlying siltstone. Another lead-zinc anomaly with similar zinc values but much lower lead values lies 75m grid west. This anomaly peaks at 1000N 1500E with values of 2250 ppm Zn and 200 ppm Pb. A manganese anomaly overleps this latter lead-zinc anomaly to grid east and grid south.

A large zone of manganese anomalism around the Mariposa Tramway is not supported by distinct lead or zinc anomalies. Scattered zinc anomalies occur along line 700N. These appear isolated but require further investigation.

Significant Pb and Zn anomalies are outlined on Fig. 11.


ZEEHAN
5,357,000mN
2300N
2000N
1500N
1000N
700N
040
E.L. 15/76
BASELINE CONTINUES
TO OCEANA GRID
LITTLE
HENTY RIVER
1400E
MARIPOSA TRAM
(abandoned)
Pyramid Mine
STRAHAN
5,356,000mN
RELINQUISHED AREA
LEGEND
Zinc >600p.p.m.
Lead >200p.p.m.
Wocker Samples
True N
Mag. N.
363,000mE
364,000mE
365,000mE
032041
5 cm
EZ
PROJECT E.L. 4/78 ZEEHAN, TAS.
PYRAMID GRID
BEDROCK GEOCHEM.
Compiled I.MAT. Date 8-4-'86
Drawn R.J.R. Scale 1:10,000
PLAN NO.
Fig. 11

3.3.3. Winkie Drilling (See Fig. 12 & Appendix 2 - Winkie Drill Logs and Cross Sections)

Seven shallow Winkie drill holes were drilled to test the results of bedrock sampling. The five sites which produced the highest zinc values in Wacker samples were all tested even though two of these are classified as 'overburden' on the basis of their geochemistry. Only at the site of the best geochemistry, 1100N 1600E, was the Winkie unable to reach the depth of the Wacker sample. At this site coarse galena and sphalerite in rubbly limestone were recovered from 2m above the Wacker sample.

Summary drill logs of Winkie holes - all holes are vertical.

ZWP 27 Co-ordinates 1100N 1600E

Target - Bedrock geochemical anomaly 1.0% Zn and 0.6% Pb

Summary Log

0 - 5.7	No core
5.7- 10.1	Silty limestone. Generally rubbly core. Some lumps coarse sphalerite and galena recovered from 9.1 to 9.5m.

Hole stopped by poor ground conditions.

Significant Assays:

Interval	Recovery	Pb%	Zn%	Ag
91.-9.5	25%	4.99	5.2	28 g/t

ZWP 28 Co-ordinates 1100N 1603.5E

Target - A deeper intersection of the mineralization intersected by ZWP 27

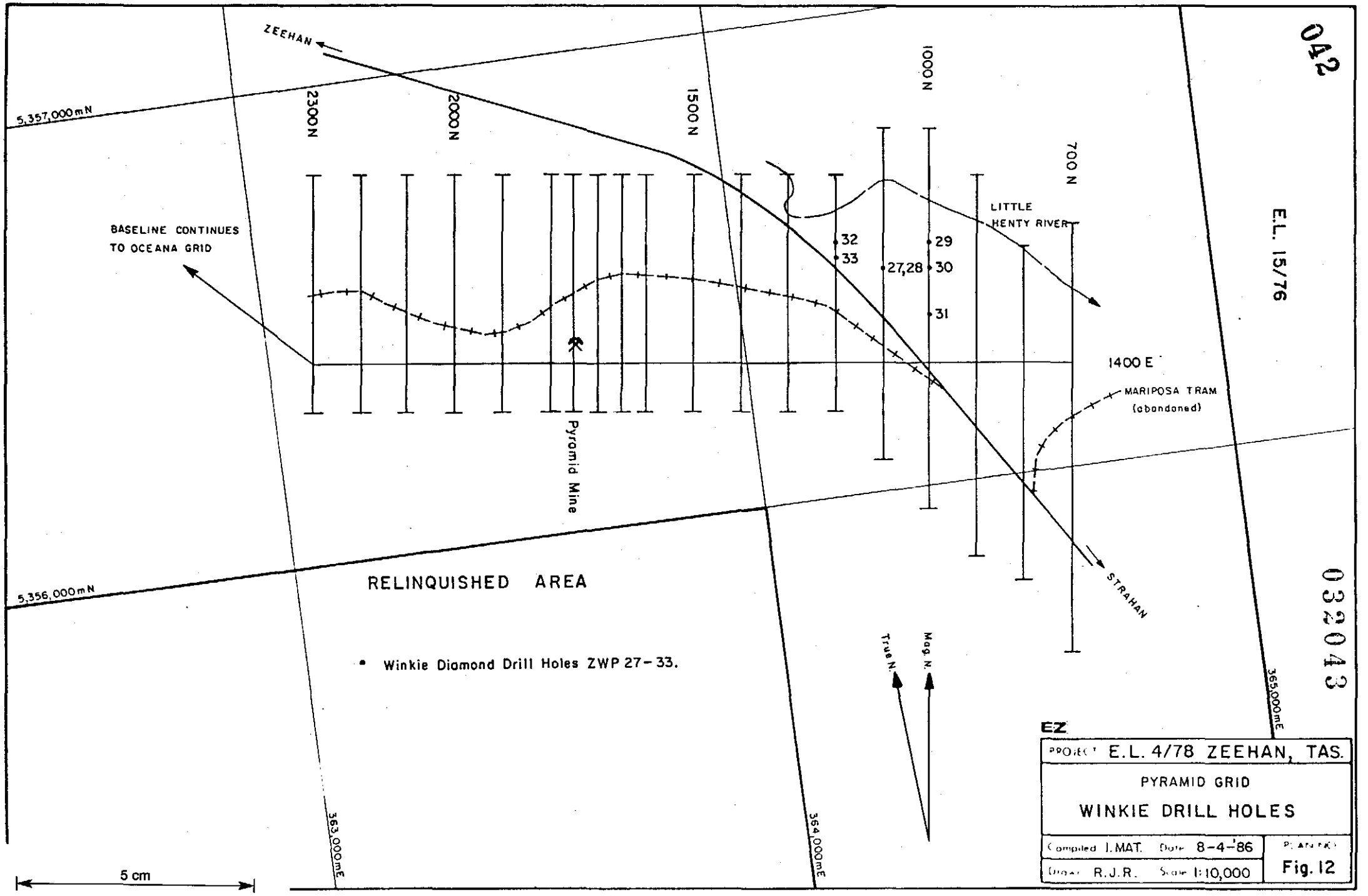
Result - Hole stopped at 8.0m by poor ground conditions, no visible mineralization in rubbly core.

ZWP 29 Co-ordinates 1000N 1650E

Target - Bedrock geochemical anomaly 3400 ppm Zn and 1690 ppm Pb

Summary Log -

0 - 3.8	No core
3.8 - 4.4	Sandstone with trace galena
4.4 - 14.8	Porous silty sandstone
14.8 - 16.7	Decomposed sandstone


042
ZEEHAN
5,357,000mN
2300N
2000N
1500N
1000N
700N
E.L. 15/76
BASELINE CONTINUES
TO OCEANA GRID
LITTLE
HENTY RIVER
32
33
27,28
29
30
31
1400E
MARIPOSA TRAM
(abandoned)
Pyramid Mine
STRAHAN
RELINQUISHED AREA
5,356,000mN
• Winkie Diamond Drill Holes ZWP 27-33.
True N.
Mag. N.
363,000mE
364,000mE
365,000mE
032043
5 cm
EZ
PROJECT E.L. 4/78 ZEEHAN, TAS.
PYRAMID GRID
WINKIE DRILL HOLES
Compiled I.MAT. Date 8-4-86
Drawn R.J.R. Scale 1:10,000
PLAN NO.
Fig. 12

043

Significant Assays -

Interval	Recovery	Pb	Zn
9.6-12.6	85%	125 ppm	770 ppm

ZWP 30 Co-ordinates 1000N 1600E

Target - Limestone just grid west of siltstone

Summary Log -

0 - 6.4	No core
6.4 - 18.6	Limestone

Significant Assays -

Interval	Recovery	Pb	Zn
18.2-18.6	90%	35 ppm	110 ppm

ZWP 31 Co-ordinates 1000N 1500E

Target - Bedrock geochemical anomaly 2250 ppm Zn 200 ppm Pb

Summary Log -

0 - 8.2	No core
8.2 - 11.6	Limestone

No Assays

No visible mineralization.

ZWP 32 Co-ordinates 1200N 1650E

Target - Bedrock geochemical anomaly 6550 ppm Zn 290 ppm Pb

Summary Log -

0 - 5.3	No core
5.3 - 27.4	Siltstone

No Assays

No visible mineralization

ZWP 33 Co-ordinates 1200N 1625E

Target - Bedrock geochemical anomaly 1850 ppm Zn and 685 ppm Pb

Summary Log -

0 - 7.6	No core
7.6 - 13.0	Dolomite with traces of galena

Signicant Assays -

Interval	Recovery	Pb	Zn
7.6-10.1	50%	195 ppm	405 ppm

4. LITTLE HENTY RIVER - McLEAN CREEK

A 600m wide band of Gordon Limestone extends for 4km along McLean Creek. There are no known occurrences of lead-zinc mineralization in this are and no exploration activity has been reported.

4.1. Work Completed - May, 1985 to April, 1986

Track Cutting:

A small grid, consisting of a 3km long base line and five 500m long cross lines, was cut over the Gordon Limestone along McLean Creek. Foot access from the old Swansea tram was provided by two walking tracks and a helipad was cut on the south side of the Little Henty River.

5. DISCUSSION AND CONCLUSIONS

During 1985-86, four diamond drill holes and 24 shallow Winkie drill holes tested geological, geochemical and geophysical targets at Pyramid, Myrtle, Baura and Grieves. All targets were within the Gordon Limestone and most were near inferred mineralizing faults.

Some extension of the zinc mineralization around the costean on 47,100N at Grieves was demonstrated by Winkie drilling. Here shallow sub-surface zinc mineralization occurs in both carbonate and sulphide form within altered sideritized dolomitic limestone breccia. A sub-cropping mineralized zone with a strike length of 60m and a width of 10 to 15m is indicated with erratic grades of from 1% to 17% Zn. Hole ZG 1001 failed to intersect this mineralization at depth.

Low grade zinc mineralization was intersected by Hole ZG 1007 at Grieves. A check sample interval of 3.7m reported 1.34% Zn within extensively dolomitized limestone. This mineralization appears to correlate with similar mineralization in the costean on 47,600N and is associated with UTEM and geochemical anomalies. The persistance of the geochemical anomaly and UTEM anomaly along a constant stratigraphic horizon suggest some continuity of this low grade, possibly exhalative mineralization.

Low grade lead-zinc-barite mineralization was also intersected by diamond drill holes and Winkie holes at Myrtle. Here low grade vein style and cavity filling mineralization has been enriched in the overburden by residual concentration. Similar mineralisation was detected at Pyramid at ZWP 27.

Drill holes ZB 1004, ZB 1005 and ZB 1006 did not intersect any significant mineralization.

The additional Wacker sampling has almost completed the bedrock sampling of the Badger River area and the Pyramid grid. Only the fold nose in the north western corner of the Baura grid, the southern part of the Rose Valley grid and small zones along the eastern boundary of the limestone at Myrtle and Grieves have not been sampled. Of these areas, the fold nose at Baura, with intersecting faults, an anticlinal axis and some elevated geochemistry, appears the most attractive.

Isolated limestone blocks at McLean Creek, Professor, Fen Creek and at Sassafras have not been sampled. Grids have been established over the Sassafras and Professor areas while lines have been cut at McLean Creek.

Two other areas within E.L. 4/78 which may host economic mineral deposits have been identified in previous reports. These are the North Austral area adjacent to the Balstrup Fault and the Queensbury Mine area. At North Austral, low grade lead-zinc mineralization occurs within Gordon Limestone at the Montagu No. 1 mine and was intersected by drill hole ZM0 252. The potential for high grade mineralization at depth has not yet been evaluated.

6. RECOMMENDATIONS

Reconnaissance Wacker sampling of the Baura, Professor and McLean Creek areas should be completed.

The mineralization around 47,100N should be detailed using close spaced Wacker or Winkie drilling and tested at depth by a diamond drill hole if warranted.

Data from the North Austral area should be reviewed and field checked. Additional diamond drilling beside the Balstrup fault is recommended.

Data from the Queensbury Mine should be reviewed and anomalous stream sediment samples should be followed up by more closely spaced sampling. The precious metal potential of this area should be investigated.

CITED REFERENCES

E.Z. Report No. T177 — Progress Report on Exploration Activity 14th June, 1983 to 14th January, 1984.

E.Z. Report No. T192 — Progress Report on Exploration Activity 14th January to 14th June, 1984.

E.Z. Report No. T205 — Progress Report on Exploration Activity 15th June, 1984 to 30th April, 1985.

ELLIS, A.P., 1984 — Gordon Group - South Zeehan
Unpub. Hons. Thesis, University of Tasmania.

APPENDIX 1.

Data Sheets - Wacker Sampling

032050

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: E.L.4-78
LOCALITY: ZEEHAN
GRID NAME: ROSE VALLEY
NOMINAL GRID AZIMUTH:

MATERIAL: BED ROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: MINUS
ANALYSED BY: ANALABS
METHOD: AAS Ba by XRF

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	A.M.G. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67244	4380N	6090E			20.2	GYWH			✓		✓	✓	10	60	70			1.14	145	57
45		CHECK	SAMPLE	"A"									5	30	20			0.22	10	1210
46		8750*			28.7	DKGY	✓		✓		NO	✓	15	45	7015			5.54	25	296
47		8500			16.9	DKGY			✓		✓	✓	10	25	30			0.93	110	122
48		8250*	CLAY		10.6	DKGY	✓				NO		35	70	550			2.14	40	499
49	6080	00			9.4	GYWH							5	35	75			0.84	160	123
67250		7750			12.0	LTGY	✓	✓	✓		?	✓	10	30	20			0.36	20	522
51		7500			9.5	DK	✓		✓		?	✓	25	175	4100			1.84	10	469
52		7250			12.4	LTBRGY	✓		✓		NO	✓	35	275	90			0.31	10	478
53	6070	00			13.0	LTGYWH		✓	✓		✓	✓	X	25	95			0.07	40	X
54		6750			17.4	GYWH	✓		✓		✓	✓	10	30	110			0.38	100	142
55		CHECK	SAMPLE	"C"									5	115	3550			0.60	390	96
56		6500	SAND		18.0	BR		✓			NO		5	X	10			0.11	10	72
57		6250			11.7	LTGY			✓		?	✓	X	25	60			1.29	260	34
67258	6060	00			9.0	LTBRGY	✓		✓		✓	✓	10	75	25			0.86	30	838
67259	6057	5*			3.2	BRBK			✓		✓		10	30	15			3.79	10	527
260	6057	5*	GRANITE?		7.0	BRBK			✓		✓	✓	10	10	5			1.14	10	379
2611	6055	00			2.8	DKGY			✓		✓	✓	15	40	90			3.24	135	769
262		525			1.4	DKGY	✓		✓		✓	✓	10	35	25			1.34	35	666
263	6050	0			2.5	DKGY	✓		✓		✓	✓	15	30	35			2.09	65	653
67293	6087	5*			40.8	GY			✓		✓	✓	5	10	85			1.29	10	158
67294	6082	5*			18.4	GYWH			✓		✓	✓	10	50	100			0.99	95	38

032051

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: E.L. 4-78
LOCALITY: ZEEHAN
GRID NAME: ROSE VALLEY
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba By XRF

050

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	NORTHING	EASTING	DEPTH m	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe%	Mn	Ba
67264	4300N	60925E			10.7	LT GY WH			✓		✓	✓	X	130	125			0.36	225	68
265		950			11.6	DK GY	✓		✓		✓	✓	10	50	185			2.34	350	153
266		975			21.6	GY WH			✓		✓	✓	5	25	160			1.39	300	27
267	6100N	1000			3.0	GY WH			✓		✓	✓	5	35	360			0.55	100	31
268		025			21.2	GY WH			✓		✓	✓	5	30	60			0.81	135	65
269		050			4.0	GY WH			✓		✓	✓	X	50	145			1.24	195	30
270		075			8.6	GY		✓	✓		✓	✓	10	40	125			1.99	265	230
271	6110N	100			14.3	GY BR	✓	✓	✓		✓	✓	X	30	115			0.29	230	X
272		125			8.3	LT GY			✓		✓	✓	5	40	145			0.20	365	34
67273	6115N	GRAVEL			2.5	DK BR			✓		NO		5	40	20			0.12	10	328
67274	CHECK	SAMPLE "A"											X	35	15			0.20	10	1130

032052

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: EL 4-78
LOCALITY: ZEEHAN
GRID NAME: ROSE VALLEY
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba BY XRF

051

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	A.M.G. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH m	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67212	44260N	61200E			10.9	6YWH			✓		✓	✓	10	40	1100			0.34	95	210
213		1750			11.4	6YWH			✓		✓	✓	X	40	40			0.38	115	219
214		1500			11.6	LTGY			✓		✓	✓	5	145	290			0.42	100	412
215		1250			6.5	DKGY	✓		✓		✓	✓	15	130	25			1.49	150	3513
216	61100				11.6	6Y			✓		✓	✓	5	25	15			0.30	70	818
217		0750			2.0	6Y			✓		✓	✓	X	285	250			0.65	110	619
218		0500			1.8	6YWH			✓		✓	✓	5	25	30			0.73	100	1115
219		0250			1.0	6YWH			✓		✓	✓	5	20	20			0.53	105	1319
67220	61000				3.2	6Y			✓		✓	✓	5	40	25			0.83	90	711
221		9750			2.2	6Y			✓		✓	✓	X	35	40			0.63	145	111
222		9500			2.2	6Y			✓		✓	✓	X	30	35			0.28	65	X
223		9250			5.6	6YWH			✓		✓	✓	10	105	40			1.04	160	1110
224	60900				6.1	6YWH			✓		✓	✓	X	55	75			0.87	315	776
225		8750			11.6	6YWH			✓		✓	✓	5	55	260			0.88	385	519
226		8500			11.2	6YWH			✓		✓	✓	X	15	30			0.27	40	16
227		8250			20.8	6YWH	✓		✓		✓	✓	5	20	30			1.04	190	911
228	60800				12.7	6Y		✓	✓		✓	✓	5	25	20			0.65	110	711
67229	CHECK SAMPLE "B"												30	150	670			2.64	95	445
67230	60750	*	CLAY		12.2	BK	✓				NO		35	40	320			2.34	20	5335
231		7750			19.2	6YWH		✓	✓		✓	✓	10	40	195			0.34	115	1101
67232	60725	*	GRAVEL		9.2	BR	✓	✓			NO		5	70	20			0.23	10	226
233	60700	*			14.6	BKBR	✓				NO		25	320	520			0.59	10	303
234	60600				6.2	DKGY	✓		✓		✓	✓	20	40	35			1.54	75	702
235		5750			4.8	LTGY	✓		✓		✓	✓	25	55	50			1.75	75	821
236		5500			3.2	BKBR			✓		✓	✓	45	70	30			6.09	20	7459
237		5250			12.3	WHBKBR			✓		✓	✓	35	60	55			11.44	40	7330
238		5000			12.2	DKGY	✓		✓		✓	✓	40	65	300			2.19	110	7776
67231	COK 7500				5.9	LTGY			✓		✓	✓	30	55	40			1.09	310	12610

032053

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: E.L. 4/78
LOCALITY: ZEEHAN
GRID NAME: ROSE VALLEY
NOMINAL GRID AZIMUTH:

MATERIAL: BED ROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba by XRF

052

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	A.M.G. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67240	4400N	60450E			2.2	GY BR	✓		✓		✓	✓	20	65	70			1.64	55	844
41		4250			4.6	GY BR	✓		✓		✓	✓	15	35	140			2.44	110	630
42		4000			3.4	GY BR	✓		✓		✓	✓	30	35	30			0.88	35	651
67243		60375			3.0	GY BR	✓		✓		✓	✓	10	25	20			1.49	15	581
67295		60750	*		9.4	LT GY WH			✓		✓	✓	5	25	90			0.28	130	97
7916		7250	*		19.8	GY	✓		✓		✓	✓	50	135	1050			1.93	5	2600
917		7000	*		20.2	LT GY WH			✓		✓	✓	10	40	85			0.28	250	x
918		6750			18.8	GY WH		✓	✓		✓	✓	20	30	130			0.90	1655	25
919		6500			12.0	GY			✓		✓	✓	5	20	60			0.35	90	x
67300		6250			2.0	WH					NO		15	x	x			0.05	x	320

032054

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: E.L.A.178
LOCALITY: ZEEHAN
GRID NAME: ROSE VALLEY
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POULTON
DATE: 2-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Bo. by XRF

053

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH m	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67181	44400N	60050E		ROAD	3.8	GY	✓	✓	✓		✓	✓	20	160	150			2.09	90	512
182		0075			4.8	GY							15	30	100			1.34	55	457
183		60100			1.8	LTBRGY	✓		✓		✓	✓	15	30	30			2.69	15	493
184		125			2.2	LTBRGY	✓		✓		✓	✓	10	15	30			1.44	20	494
185		150			2.4	BRGY	✓		✓		✓	✓	15	30	35			2.84	20	524
186		175			3.5	BRGY	✓		✓		✓	✓	15	30	35			1.59	15	498
187		60200			4.7	BRGY	✓	✓	✓		✓	✓	15	30	50			1.19	40	500
188		225			3.3	BRGY			✓		✓	✓	15	30	40			2.04	55	562
189		250			2.7	GY	✓		✓		✓	✓	15	35	105			2.29	110	618
190		275			6.8	GYBR			✓		NO		25	80	145			0.92	35	576
67191		60300			7.4	LTBR	✓		✓		NO		40	50	30			0.61	20	808
192		60575		SANDSTONE & VG	4.8						NO		5	315	20			0.08	X	357
193		600			12.8	BK	✓	✓			NO		25	125	450			1.64	110	582
194		60700			3.9	BR	✓	✓			NO		5	145	20			0.10	5	343
195		60800			1.0	GYWH			✓		✓	✓	15	85	135			1.14	140	72
196		775			8.2	LTGY	✓	✓	✓		✓	✓	10	55	75			1.44	240	141
197		750			3.4	GY			✓		✓	✓	5	20	35			0.32	55	43
198		725			8.0	GYWH			✓		✓	✓	5	30	50			0.43	80	73
199		60825			1.0	GY			✓		✓	✓	10	25	35			0.35	40	37
67200		850			1.0	LTGY			✓		✓	✓	20	35	70			0.91	90	167
201		875			1.5	GYWH			✓		✓	✓	5	35	155			0.43	310	37
202		TEST SAMPLE "C"											5	130	370			0.63	375	165
203		900			10.7	GYWH	✓	✓	✓		✓	✓	10	35	40			1.24	140	84
204		925			15.3	GYWH			✓		✓	✓	5	25	45			0.24	170	23
205		950			8.4	GYWH			✓		✓	✓	5	20	50			0.42	225	30
206		975			3.5	CMWH			✓		✓	✓	10	30	120			0.37	520	X
67207		61000			12.8	DKGYWH			✓		✓	✓	5	20	30			0.79	150	66

032055

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: E.L. 4/78
LOCALITY: ZEEHAN
GRID NAME: ROSE VALLEY
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Bo. by XRF

054

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	A.M.C. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67205	4440N	61025E			5.6	DK GY WH		✓	✓			✓	5	20	45			0.22	50	13
209		0950			11.2	GY			✓			✓	25	25	30			0.41	85	37
210		0975			10.8	GY WH			✓			✓	5	100	65			0.79	175	52
67211		61100			10.6	GY			✓			✓	X	30	255			0.57	170	57
67215		60700E			13.8	BR	✓	✓			MO		30	05	595			0.52	5	230
216		675			9.8	DK GY	✓		✓		✓	✓	10	120	550			0.62	5	284
217		650			33.6	DK GY WH			✓		✓	✓	X	60	140			0.87	65	35
218		625			22.0	GY WH			✓		✓	✓	X	40	65			0.24	75	25
219		60600			21.2	DK GY WH			✓		✓	✓	5	30	50			0.60	65	104
67220		575			17.8	GY WH			✓		✓	✓	5	35	100			2.54	2255	108
221		550			13.4	CR BR	✓		✓		✓	✓	X	10	25			0.21	5	344
222		525			31.4	BR		✓	✓		✓	✓	X	5	5			0.07	5	268
223		60500			11.8	GY BR	✓		✓		✓	✓	5	30	130			0.18	5	377
224		475			13.4	CR	✓		✓		?	✓	20	405	615			2.59	35	752
225		450			0.6	GY			✓		✓		5	25	170			0.08	X	381
226		425			3.2	CR WH	✓		✓		✓	✓	X	60	40			0.41	10	461
227		60400			8.2	LT BR GY	✓		✓		✓	✓	25	25	60			2.14	25	648
228		CHECK	SAMPLE "B"										30	140	650			2.44	65	455
229		375			8.3	PU BR	✓		✓		✓	✓	20	45	140			3.98	55	703
67230		350			11.6	VARIED		✓	✓		✓	✓	15	35	35			3.48	25	779
231		325			13.2	GY	✓		✓		✓	✓	20	40	40			0.87	35	719
67232		60300			12.6	GY	✓		✓		✓	✓	15	25	40			0.86	25	842

032056

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: E.4.4.78
LOCALITY: ZEEHAN
GRID NAME: BAURA
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9.7.35

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba. by XRF

055

SAMPLE NUMBER	SAMPLE LOCATION DATA			SAMPLE COMPOSITION DATA							METAL CONTENT (ppm unless specified)							
	GRID LINE NO. 4560N	A.M.G. CO-ORDINATES																
	GRID EASTING	NORTHING	EASTING	DEPTH	COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	Cu	Pb	Zn	Ag	Au	Fe%	Mn	Ba
3303	6095			18·2	LT GY WH			✓		✓	✓	5	35	40			0·38	40	x
3304	975			23·0	GY WH			✓		✓	✓	5	220	180			0·39	85	x
3305	6100			13·8	GY			✓		✓	✓	5	665	135			0·23	210	x
3306	025			14·2	GY			✓		✓	✓	5	545	450			0·25	95	x
3307	CHECK	SAMPLE "C"																	
3308	6105			21·2	GY			✓		✓	✓	5	15	x			0·89	260	25
3309	075			10·8	GY			✓		✓	✓	5	10	15			0·30	105	x
6731 10	6110			4·6	GY WH	✓		✓		✓	✓	10	30	250			0·60	220	25
3311	125			13·0	GY WH			✓		✓	✓	10	25	150			0·91	125	20
3312	150			13·4	GY			✓		✓	✓	5	15	5			0·57	110	x
3313	175			15·0	GY			✓		✓	✓	5	15	90			0·85	180	x
3314	6120			17·0	GY WH			✓		✓	✓	15	25	70			1·03	180	45
3315	225			12·6	GY WH			✓		✓	✓	10	35	130			1·08	210	20
3316	250			9·2	GY WH			✓		✓	✓	15	20	80			1·53	220	290
3317	275			12·8	LT GY			✓		✓		5	10	45			0·46	175	x
3318	6130			2·10	GY WH			✓		✓	✓	10	180	75			0·59	150	50
3319	325			3·12	GY WH			✓		✓	✓	10	10	30			1·83	425	45
6732 0	350			2·0	LT GY			✓		✓	✓	10	40	100			0·45	150	24
3321	375			2·11	GY WH			✓		✓	✓	10	10	50			0·44	185	x
3322	6140			2·6	GY WH			✓		✓	✓	5	5	30			0·32	150	x
3323	425			2·0	GY WH			✓		✓	✓	10	20	90			0·40	195	x
3324	450			7·0	LT DK GY			✓		✓	✓	5	15	20			0·50	95	x
3325	475			23·2	GY			✓		✓	✓	10	10	40			0·98	105	60
3326	6150			18·4	GY			✓		✓	✓	10	10	35			1·48	225	190
3327	525			13·0	GY WH			✓		✓	✓	10	20	25			0·61	160	x
3328	550			14·8	GY WH			✓		✓	✓	10	15	15			0·77	120	30
3329	575			14·6	GY WH			✓		✓	✓	5	5	x			0·38	85	x
6733 0	6160			14·0	GY WH			✓		✓	✓	10	15	55			0·21	80	x
3331	625			13·11	LT GY			✓		✓	✓	10	10	15			0·37	75	x
6733 2	6161	650		15·7	GY WH			✓		✓	✓	5	5	20			0·13	40	x

032057

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: E.A.78
LOCALITY:
GRID NAME: BAVRA
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Bq. by. x

056

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	A.M.G. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67333	4560ON	61675E			10·3	GYWH			✓		✓	✓	5	5	20			0·39	110	x
3334		7100			12·9	GYWH			✓		✓	✓	5	5	60			0·32	75	x
3335		CHECK	SAMPLE "B"																	
3336		7125			11·2	GY			✓		✓	✓	5	15	x			0·68	140	30
3337		7150			4·5	GYWH			✓		✓	✓	5	10	x			1·13	260	30
3338		7175			2·7	GYWH			✓		✓	✓	5	15	x			0·72	160	x
3339	61800				2·5	GYWH			✓		✓	✓	5	20	40			0·64	210	x
67340	61850				3·0	LTGYWH			✓		✓	✓	10	10	20			0·60	130	x
3341		8175			5·7	LTGYWH			✓		✓	✓	15	10	85			2·38	590	x
3342		9100			11·7	CRWHGY			✓		✓	✓	10	145	195			2·13	580	x
3343		9125			11·4	GYWH			✓		✓	✓	10	10	40			0·55	115	x
67344	61950		SANDY CLAY		15·8	GYBR			✓		NO		15	95	350			2·73	15	1400
67375	60900		ROAD DRAIN		28·2	GYWH			✓		✓	✓	5	10	x			0·15	40	x
67376	60875				16·4	LTGYWH			✓		✓	✓	10	55	85			0·92	40	31

032058

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

051

PROJECT: ..F.L.A.:78.....
LOCALITY: ..R.E.E.H.A.N.....
GRID NAME: .BAURA.....
NOMINAL GRID AZIMUTH: .....

MATERIAL: ...B.E.D.R.O.C.K.....
SAMPLE METHOD: ...W.A.C.K.E.R.....
SAMPLED BY: ...N. POLTOCK.....
DATE: .....9-.85.....

SIZE FRACTION ANALYSED: .W.H.O.L.E.....
ANALYSED BY: .A.N.A.L.A.B.S.....
METHOD: .A.A.S...Bo. by X.R.F

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO. (4640N)	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe%	Mn	Ba
67345		62000E			12.6	GYWH			✓		✓	✓	60	20	120			0.58	135	x
3446		0250			12.4	LTGYWH			✓		✓	✓	10	50	160			0.35	105	x
3447		0500			13.8	GYWH			✓		✓	✓	5	30	x			0.20	105	x
3448		0750			11.7	LTGYWH			✓		✓	✓	10	35	45			0.24	110	x
3449	62100				7.4	LTGY			✓		✓	✓	30	125	200			2.38	120	130
67350		1250			14.3	LTGYWH			✓		✓	✓	5	20	15			0.29	90	x
3511		1500			13.8	GY			✓		✓	✓	5	20	50			0.25	150	x
3512		1750	GRAVEL		2.8						WO		5	10	20			0.10	5	x
3513	62200				11.7	DKGYWH			✓		✓	✓	10	30	30			0.45	105	x
3514		2250			17.4	DKGYWH			✓		✓	✓	15	45	320			1.48	240	120
3515		2500			18.2	DKGYWH			✓		✓	✓	10	205	340			9.93	3790	65
3516		2750			16.7	DKGYWH			✓		✓	✓	10	40	380			1.68	345	110
3517	62300		MINERALIZED?		17.9	GYGW			✓		✓	✓	35	40	425			1.78	145	410
3518		3250			13.8	GYBR	✓		✓		✓	✓	25	45	110			2.73	135	510
3519		3500			11.9	GYBR	✓		✓		✓	✓	35	90	170			1.53	50	420
67360		3750			11.7	GYBR	✓		✓		✓	✓	15	25	175			1.83	95	420
3611	62400				11.1	GYBR	✓		✓		✓	✓	20	40	85			1.88	80	430
3612		4250			1.9	GYBR	✓		✓		✓	✓	15	20	15			1.83	45	410
3613		4500			1.7	BKGYBR	✓		✓		✓	✓	15	30	20			2.08	55	420
3614		4750			1.2	BKGYBR	✓		✓		✓	✓	15	20	30			2.43	75	430
3615	62500				1.4	BRDKGY	✓		✓		✓	✓	20	30	25			2.63	45	400
3616		5250			1.2	BRGYBK	✓		✓		✓	✓	15	30	65			2.93	30	380
3617		5500			2.8	GY			✓		✓	✓	15	30	75			1.58	35	370
3618		5750			1.9	GY			✓		✓	✓	15	30	205			1.73	70	360
3619	62600				2.4	BKGYBR			✓		✓	✓	15	30	x			1.38	30	390
67370		6250			1.2	GYBR	✓		✓		✓	✓	20	50	85			1.83	70	430
3711		6500	CREEK		0/C				✓		✓	✓	15	25	95			1.73	70	350
3712		6750			1.4	GY			✓		✓	✓	15	25	35			1.73	50	380
67373	62700				10.6	GY			✓		✓	✓	15	25	120			2.18	85	360
67374	CHECK SAMPLE "A"																			

032059

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

058

PROJECT: E.L.4-78
LOCALITY: ZEEHAN
GRID NAME: MYRTLE
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba by XRF

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH (m)	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe%	Mn	Ba
67377	6048	25E	ROAD GUTTER		7.8	DK GY WH			✓		✓	✓	5	645	455			0.25	80	x
378		450			9.2	LT GY WH			✓		✓	✓	10	30	90			0.29	95	x
379		475			11.2	DK GY WH			✓		✓	✓	5	50	160			0.53	70	40
67380	6050	00			8.9	DK GY			✓		✓	✓	10	10	x			0.93	185	70
381		525			12.7	GY			✓		✓	✓	5	15	x			0.40	80	x
382		550			5.8	GY WH			✓		✓	✓	5	15	x			0.45	105	x
383		575			5.0	DK GY WH			✓		✓	✓	5	15	35			0.59	60	x
384	6060	10			5.3	DK GY WH			✓		✓	✓	15	20	30			0.61	120	x
385		625			7.5	GY			✓		✓	✓	5	10	x			0.72	70	x
386		650			2.9	GY			✓		✓	✓	10	20	x			0.67	100	60
387		675			9.0	DK GY WH			✓		✓	✓	10	20	20			1.23	345	x
388	6070	00			13.7	GY WH			✓		✓	✓	5	20	x			0.34	70	x
389		725			18.7	GY			✓		✓	✓	5	20	x			0.63	100	x
67390		750			11.7	GY WH			✓		✓	✓	10	20	25			0.84	100	x
391		775			14.6	GY			✓		✓	✓	5	10	x			0.72	105	30
392	6080	00			13.5	GY WH			✓		✓	✓	5	10	5			0.49	110	x
393		825			14.2	DK BR	✓		✓		?		15	10	x			2.28	110	170
67394	6080	50			13.8	GY							5	15	x			0.59	180	x
Sheeted zone with quartz veins																				
64809	6025	50			8.5	BR GY	✓		✓		✓	✓	25	280	275			4.03	25	330
8110		225			10.4	DK GY WH			✓		✓	✓	5	15	x			0.63	110	20
8111		250			4.5	LT GY	✓		✓		✓	✓	5	625	750			0.61	110	x
8112		275			15.6	GY			✓		✓	✓	5	20	15			0.30	90	x
8113		300			11.1	GY			✓		✓	✓	5	20	10			0.53	110	35
8114		325			7.4	GY WH			✓		✓	✓	5	20	15			0.60	80	x
8115		350			35.6	LT GY			✓		✓	✓	10	20	35			0.65	105	60
8116		375			19.4	GY LT BR	✓		✓		✓	✓	10	60	1175			0.57	155	490
64817	6040	00			6.7	GY BR			✓		✓	✓	15	115	170			4.13	110	460

032060

059

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: E.Z.A.-78
LOCALITY: ZEEHAN
GRID NAME: MYRTLE
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba by XRF

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	A.M.G. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe%	Mn	Ba
67355	48800N	60675			9.5	GYWH			✓		✓	✓	5	10	x			0.63	1510	20
3956		7600			23.2	GY		✓	✓		✓	✓	5	10	x			0.43	1410	35
3957		7125			23.8				✓		?	✓	5	80	80			1.78	90	40
3958		7550			31.8	LTGY			✓		✓	✓	5	10	20			0.29	100	x
3959		7775			61.2	GYWH			✓		✓	✓	5	10	15			0.47	330	x
67400	60800				13.7	GYWH		✓	✓		✓	✓	35	30	485			0.90	335	1100
64501		8225			13.2	GYWH			✓		✓	✓	15	110	1300			2.43	750	x
5502		8550			9.2	ORBW			✓		✓	✓	x	25	280			1.58	650	x
5503	60650				6.0	DKGY			✓		✓	✓	5	20	10			0.69	1015	35
5504		6225			2.0	GY			✓		✓	✓	5	25	x			0.65	1165	x
5505		6600			3.6	GY			✓		✓	✓	5	20	x			0.93	170	35
5506		5775			1.2	GY			✓		✓	✓	5	30	35			2.78	5810	x
5507		5550			7.4	GY			✓		✓	✓	x	20	x			0.49	1210	x
5508		5225			1.0	GYWH			✓		✓	✓	5	45	35			0.30	60	x
5509		5500			1.0	GYWH			✓		✓	✓	10	20	x			0.89	110	110
5510		4775			1.0	LTGY			✓		✓	✓	5	20	x			0.35	105	x
5511		4550			12.8	DKGY		✓	✓		✓	✓	5	15	x			1.13	110	350
5512		4225			1.0	LTGY			✓		✓	✓	5	20	x			0.20	65	x
64513	60400				2.9	GYWH			✓		✓	✓	x	15	x			0.20	55	x
64579	60375				11.7	LTGYCM			✓		✓	✓	5	40	200			0.29	85	x
5580		3550			1.6	GY			✓		✓	✓	10	10	5			0.98	115	470
64801		3225			15.4	LTGYWH			✓		✓	✓	5	10	1350			0.66	85	25
8002		3000			7.7	GY			✓		✓	✓	10	15	25			1.08	90	140
8003		2775			4.3	GYWH			✓		✓	✓	5	15	35			0.54	110	x
8004		2550			19.4	GYWH			✓		✓	✓	15	20	10			0.42	85	x
8005		2225			4.7	CMGY	✓		✓		✓	✓	15	30	130			0.24	75	x
8006		2000			25.2	GYWH			✓		✓	✓	5	15	30			0.33	50	x
8007		1750			17.0	DBWGYWH	✓		✓		?	✓	710	155	110			0.64	20	330
64808	60150				13.1	BK	✓		✓		?	✓	20	1610	45			2.03	20	3350

032061

060

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: ...E.L.4/78.....
LOCALITY: ....ZEEHAN.....
GRID NAME: ....MYRTLE.....
NOMINAL GRID AZIMUTH: .....

MATERIAL: ...BEDROCK.....
SAMPLE METHOD: ....WACKER.....
SAMPLED BY: .....N. POLTOCK..
DATE: .....9.-.85.....

SIZE FRACTION ANALYSED: ....WHOLE.....
ANALYSED BY: ...ANALABS.....
METHOD: .AAS...Ba..Gy.XRF

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO. (4900N)	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
64514		60400			5.8	DK GY	✓		✓			✓	5	20	x			0.89	140	80
515		425			5.2	DK GY		✓	✓			✓	5	20	x			0.69	95	55
516		450			1.5	DK GY	✓		✓			✓	5	20	x			0.48	85	x
517		475			5.3	GY WH			✓			✓	5	20	x			0.86	125	30
518		500			1.0	GY WH			✓			✓	5	10	x			0.90	170	x
519		525			2.0	GY			✓			✓	5	20	5			0.89	125	20
520		550			1.6	GY			✓			✓	5	15	x			0.68	105	40
521		575			1.0	GY			✓			✓	5	20	x			0.68	85	25
522	60600				2.5	LT GY WH			✓			✓	5	10	x			0.29	75	x
523		625			13.7	DK GY			✓			✓	5	75	x			1.18	215	40
524		650			1.4	WH			✓			✓	10	30	15			0.30	170	60
525		675			1.0	LT GY BN			✓			✓	5	25	50			0.68	245	x
526		700			1.1	GY			✓			✓	10	50	105			0.81	110	85
527		725			3.2	BK			✓			✓	10	325	135			2.53	660	80
528			CHECK SAMPLE		A															
<29	60750				3.8	BK			✓			✓	20	145	460			3.08	290	90
64530		775			2.0	LT BN GY	✓		✓			✓	15	515	710			0.98	425	x
531		800	GRAVEL		2.0			✓	✓		NO		5	x	x			0.11	10	x
64566	60100				15.6	GY	✓		✓		?	✓	25	60	530			1.63	25	750
567			CHECK SAMPLE		A															
568	60125				19.4	GY			✓			✓	5	20	x			1.38	180	x
569		150			6.0	GY WH			✓			✓	5	20	75			0.31	70	x
570		175			4.4	GY			✓			✓	5	10	x			0.26	65	x
571		200			12.7	GY WH			✓			✓	5	15	20			1.48	320	x
572		225			7.9	GY WH			✓			✓	5	15	30			0.47	105	x
573		250			34.4	LT GY	✓		✓			✓	20	20	125			0.98	150	430
574		275			7.0	GY			✓			✓	10	20	1120			1.63	150	430
575		300			21.4	GY WH			✓			✓	5	15	30			0.32	85	x
576		325			4.5	GY WH			✓			✓	5	45	40			0.66	120	x
577		350			1.4	LT GY			✓			✓	10	15	35			0.30	65	20
578		375			11.5	DK GY			✓			✓	5	10	x			1.23	145	160

032062

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

PROJECT: ..EL. 4/78.....
LOCALITY: ..ZEEHAN.....
GRID NAME: ....MYRTLE.....
NOMINAL GRID AZIMUTH: .....

MATERIAL: ...BEDROCK.....
SAMPLE METHOD: ....WACKER.....
SAMPLED BY: ...N. POLTOCK.
DATE: .....9.-.85.....

SIZE FRACTION ANALYSED: ....Whole.....
ANALYSED BY: ....Analabs.....
METHOD: ..AAS., Ba by XRD

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO. 49200N	A.M.G. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
64532		60700			1.4	GY WH			✓		/	/	5	40	95			0.90	460	x
533		725			1.3	GY WH			✓		✓	✓	5	25	30			0.58	150	x
534		750			6.2	GY			✓		✓	✓	5	20	5			0.90	285	x
535		775			7.4	BW	✓		✓		✓	✓	10	135	25			0.38	10	200
536		60800			12.7	GY			✓		✓	✓	10	170	185			0.59	15	200
64537		60675			2.0	LT GY			✓		✓	✓	5	25	25			0.42	130	x
538		650			2.8	LT GY WH			✓		✓	✓	5	15	20			0.42	115	x
539		625			4.3	GY			✓		✓	✓	5	20	215			0.64	135	x
540		600			3.8	GY WH			✓		✓	✓	10	20	15			0.54	100	x
541		575			11.7						✓		5	15	10			0.55	140	x
542		550			2.9	GY WH			✓		✓	✓	5	25	x			0.39	140	x
543		525			1.8	GY WH			✓		✓	✓	5	25	x			0.98	135	25
544		500			1.0	GY WH			✓		✓	✓	5	20	5			0.98	125	x
545		475			0.8	GY WH			✓		✓	✓	5	25	10			0.50	90	x
546		450			1.0	GY			✓		✓	✓	10	20	10			0.62	110	x
547		425			4.3	GY			✓		✓	✓	5	20	15			0.14	50	x
548		60400			8.1	GY WH			✓		✓	✓	10	20	20			0.92	150	75
549		375			1.0	GY WH			✓		✓	✓	10	20	30			0.03	75	40
64550		350			0.8	GY WH			/		✓	✓	5	20	50			0.25	100	x
551		325			0.6	GY			✓		✓	✓	5	25	x			0.93	215	50
552		300			15.4	GY CM			/		✓	✓	10	15	15			1.08	160	36
553		275			1.0	LT GY			✓		✓	✓	5	15	x			0.35	50	70
554		250			1.1	GY			/		✓	✓	5	10	10			0.35	65	x
555		225			13.8	GY WH			✓		✓	✓	5	30	50			0.63	145	x
556		200			20.3	GY			✓		✓	✓	15	25	x			1.13	20	460
557		175			24.4	GY	✓		✓		✓	✓	15	15	5			1.78	80	420
558		150			26.2	GY	✓	✓	/		✓	✓	20	30	100			1.58	50	420
64559		60125	CL AU		5.6	BW	✓	✓			NC		25	45	135			1.13	30	200

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032063

062

PROJECT: EL.4/78
LOCALITY: ZEEHAN
GRID NAME: MYRTLE
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: AAS - Ba by XRF

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
5560	4920N	60100			7.1	GY			✓		✓	✓	10	15	20			0.64	70	X
5561		0075	CLAY		5.9	BN	✓	✓			NO		10	210	1140			0.50	20	250
5562		0050			5.9	GY			✓		✓	✓	5	10	X			0.67	100	X
5563		0025			5.2	GY			✓		✓	✓	5	35	20			0.70	105	95
5564		60000			4.8	GY			✓		✓	✓	5	10	10			0.88	145	45
5565		59975			3.8	GY RW			✓		✓	✓	85	240	20			1.68	20	580

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032064

PROJECT: ...E.L. 4/78.....
LOCALITY: ...ZEEHAN.....
GRID NAME: ...MYRTLE.....
NOMINAL GRID AZIMUTH: .....

MATERIAL: ..BEDROCK.....
SAMPLE METHOD: ...WACKER.....
SAMPLED BY: ...N. POLTOCK.....
DATE: ..May-June 1985.....

SIZE FRACTION ANALYSED: ....Whole.....
ANALYSED BY: .....ANALABS.....
METHOD: ..AAS, Ba. by XRF

063

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
662820	5900N	5950			x 6·6	DK GY			✓		✓	✓	5	x	125			1·71	75	220
21		75			14·8	DK GY			✓		✓	✓	x	10	15			0·48	85	35
22	6000N	00			4·8	DK GY			✓		✓	✓	5	10	35			1·56	95	300
23		25			7·0	GY			✓		✓	✓	5	15	55			1·26	210	440
24		50			10·2	DK GY			✓		✓	✓	x	x	15			0·29	90	x
25		75			21·2	GY	✓		✓		✓	✓	x	60	410			2·21	25	320
26		1000			4·9	GY BW			✓		✓	✓	40	275	3250			1·11	20	460
27		25			3·5	DK GY			✓		✓	✓	10	15	45			0·72	105	55
28		50			2·9	LT GY			✓		✓	✓	5	10	40			0·59	85	40
29		75			3·0	DK GY			✓		✓	✓	5	15	15			1·51	165	190
662830		2000			3·5	DK GY WH			✓		✓	✓	x	5	30			0·60	70	x
31		25	CLAY ON ROCK		2·8	BN DK GY	✓		✓		NO		35	205	1455			1·51	115	180
32		50			1·9	DK GY			✓		✓	✓	5	35	500			0·29	95	25
33		75			1·7	GY WH			✓		✓	✓	25	105	1200			1·14	1190	335
34	6030N	00			14·9	DK GY			✓		✓	✓	5	10	70			1·26	115	335
35		25			8·5	GY WH			✓		✓	✓	x	15	1200			0·60	130	x
36		50			5·8	GY WH			✓		✓	✓	x	x	10			0·57	100	30
37		75			1·7	GY WH			✓		✓	✓	x	10	10			0·38	95	x
38		4000			1·4	DK GY			✓		✓	✓	x	5	20			2·16	130	80
39		25			1·0	DK GY			✓		✓		x	5	35			0·48	105	x
662840		50			1·2	DK GY			✓		✓		x	10	15			0·27	1200	x
41		75			3·6	DK GY			✓		✓	✓	10	x	15			0·85	130	60
42		5000			9·4	DK GY			✓		✓	✓	5	x	15			0·78	110	35
43		25			20·3	GY			✓		✓	✓	x	x	30			0·32	70	x
44		50			13·3	GY WH			✓		✓	✓	x	10	15			0·88	115	x
45		75	CLAY ON ROCK		13·2	BK	✓				NO		20	35	30			0·61	120	270
46	6060N	00			12·5	BN GY			✓		✓	✓	20	30	2555			1·71	120	230
662847		25			x 9·8	BN GY	✓		✓		✓	✓	10	60	3655			0·78	110	90

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032065

064

PROJECT: ....EL 4/78.....
LOCALITY: ....ZEEHAN.....
GRID NAME: ....MYRTLE.....
NOMINAL GRID AZIMUTH: .....

MATERIAL: ....BEDROCK.....
SAMPLE METHOD: .....WACKER.....
SAMPLED BY: ....N. POLTOCK...
DATE: ....JUNE 1985...

SIZE FRACTION ANALYSED: ....Whole.....
ANALYSED BY: ....Analabs.....
METHOD: .AAS., Ba. by XRF.

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
616248	49600N	6080			7.2	BN GY	√		√		√	√	25	30	75			3.36	25	270
49		775		FINE SAND	10.2		√	√			NO		5	10	50			2.91	10	120
50		510			7.4	BN			√		√	√	15	25	35			2.76	20	190
* 52		225			8.6	BN GY	√				NO		20	40	95			2.41	15	250
* 51		700			6.6	BN			√		√	√	15	30	10			0.57	10	280
53	6060	675		CLAY	11.0	BN	√	√			NO		10	35	235			1.86	10	350
54		510			13.0	LT GY WH			√		√	√	5	25	20			1.31	405	x
55		225			10.3	DK GY			√		√	√	5	25	10			1.31	170	50
56		600			9.7	DK GY WH			√		√	√	10	20	15			1.11	155	65
57		575			3.5	DK GY			√		√	√	10	25	15			1.21	135	65
58		550			5.6	GY			√		√	√	5	25	10			1.01	130	65
59		225			7.5	DK GY WH			√		√	√	5	30	15			0.84	125	35
616260		5000			2.3	LT GY WH			√		√	√	x	30	15			0.42	95	x
61	6040	475			2.6	GY WH			√		√	√	5	40	40			0.57	335	x
62		550			2.4	DK GY			/		√	√	x	30	15			0.65	85	30
63		225			2.8	DK GY			√		√	√	5	30	30			1.21	210	45
64		400			2.7	DK GY			√		√	√	x	22	20			0.84	140	25
65		375			1.5	DK GY			√		√	√	5	35	25			0.28	60	x
66		550			2.0	DK GY			√		√	√	5	20	55			0.84	100	40
67		225			1.2	DK GY			√		√	√	x	15	15			0.09	30	x
68		300			2.6	DK GY WH			√		√	√	x	10	10			1.11	180	45
616269	6025	75			14.2	DK GY			√		√	√	5	25	20			0.01	20	200

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032066

065

PROJECT: E:L 4/78
LOCALITY: ZEEHAN
GRID NAME: MYRTLE
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N.POLLOCK
DATE: 9/1/85

SIZE FRACTION ANALYSED: MINUS
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba by XRF

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	A.M.G. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe%	Mn	Ba
67101	49900N	59350E			4.0	GY	✓	✓	✓		✓	✓	10	20	40			0.68	66	112
102		375			2.8	GY WH			✓		✓	✓	5	340	75			0.37	65	15
103		59900			3.1	LT GY BR	✓		✓		✓	✓	15	180	30			0.35	65	137
104		925			2.8	LT GY WH			✓		✓	✓	10	250	400			4.00	175	69
105		950			1.8	GY			✓		✓	✓	5	20	35			0.46	75	49
106		975			0.4	GY BR	✓		✓		✓	✓	10	15	35			3.50	85	186
107		60000			2.4	GY WH			✓		✓	✓	5	15	20			0.08	155	83
108		025			3.3	DK GY WH			✓		✓	✓	10	10	20			1.40	180	203
109		050			1.3	DK GY	✓		✓		✓	✓	10	10	25			1.60	170	176
67110		075			5.8	DK GY			✓		✓	✓	5	15	30			1.40	165	32
67111		60100			12.5	BK	✓				NO		30	245	3050			4.00	15	275
67101													X	X	70			0.66	90	
103													30	175	95			0.40	65	
67111													40	225	2974			3.17	X	

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032067

PROJECT: E.4.4-78
LOCALITY: ZEEMAN
GRID NAME: MYRTLE
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 8-35

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Bq. Bx. 066

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67112	5 50 1 60 N	5998 50 E			0·7	LT GY WH			✓	—	✓		10	15	40			0·63	145	70
113		8 75			3·2	LT GY WH			✓		✓	✓	5	20	80			1·00	315	22
114		59 9 60			6·8	DK GY			✓		✓		30	90	610			1·30	5	93
115		9 25			11·4	WH DK GY			✓		✓	✓	5	20	30			0·54	60	32
116		9 50			10·4	GY WH			✓		✓	✓	10	10	40			0·57	65	42
117		9 75			9·0	GY	✓		✓		✓	✓	5	5	30			0·50	60	60
118		60 0 00			11·7	GY WH	✓		✓		✓	✓	5	20	25			0·42	65	54
119		0 25			6·8	DK GY	✓		✓		NO	✓	15	25	75			0·76	65	86
67120		0 50			9·8	DK GY	✓		✓		✓	✓	5	15	170			1·80	65	83
121		0 75			6·8	GY	✓		✓		✓	✓	5	15	20			0·72	110	46
122		60 1 00			9·4	BK BR CR	✓				NO	✓	145	130	360			3·20	5	365
123		1 25			13·6	GY WH	✓		✓		✓	✓	10	20	145			1·80	75	134
124		1 50			12·6	BK	✓				NO	✓	20	30	85			1·70	10	403
125		1 75			6·4	GY WH			✓		✓	✓	15	30	35			3·60	100	556
126		60 2 00			3·8	GY WH			✓		✓	✓	10	15	140			2·00	115	419
127		2 25			15·2	DK GY			✓		✓	✓	10	20	85			1·50	200	129
128		2 50			6·8	DK GY	✓		✓		✓		10	20	30			0·98	100	77
129		2 75			20·4	DK GY		✓	✓		✓	✓	x	35	35			1·04	105	95
67130		60 3 00			1·8	GY			✓		✓	✓	5	30	30			0·46	80	56
131		3 25			1·5	GY			✓		✓	✓	5	30	30			0·85	275	178
132		3 50			1·2	GY			✓		✓	✓	x	25	30			0·94	130	81
133		3 75			1·0	GY			✓		✓	✓	10	30	20			0·91	250	191
67134		60 4 00			2·2	GY WH			✓		✓	✓	x	30	35			0·84	110	46
67122													145	100	365			2·35	x	
124													40	x	200			1·22	x	

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032068

PROJECT: ...Gordon Limestone
LOCALITY: ...EL 4/78 Zeehan
GRID NAME: ...Pyramid
NOMINAL GRID AZIMUTH: .....

MATERIAL: .....Bedrock.....
SAMPLE METHOD: .....Wacker.....
SAMPLED BY: .....Poltock.....
DATE: .....June '85.....

SIZE FRACTION ANALYSED: ...whole.....
ANALYSED BY: ...Analabs.....
METHOD: ..AAS., Ba. by XRF

067

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
662710	7600N	10500			5·8	LTGYBR	√		√		√	√	5	35	70			1·21	235	85
662711		10225			11·0	DKGY					√	√	5	290	1495			0·85	570	85
662712		10000			16·1	GY					√	√	5	60	50			0·518	230	x
662713		9750			8·2						NO	√	5	10	5			0·210	210	40
662714		9500			4·8	GY					√	√	5	50	25			0·912	205	65
662715		9225			8·8	DKGY					√	√	5	5	45			5·61	1400	55
662716		9000			5·6	LTGY					√	√	x	20	70			1·21	355	x
662717		10550			6·2	LTGYWH					√	√	30	815	1395			0·15	110	260
662718		10275			10·4	LTGY					√	√	5	60	300			2·81	800	30
662719		11000			6·4	LTGYTN					√	√	x	20	75			3·116	660	x
662720		11225			5·0	LTGYTN					√	√	5	65	510			4·21	925	75
662721		11550			4·8	DKGY					√	√	5	15	55			1·36	255	100
662722		11750			17·2	DKGYWH					√	√	5	235	705			0·55	290	25
662723		12000			16·6	LTGYTN					√	√	x	30	90			1·91	570	x
662724		12225			17·8	DKGYWH					√	√	x	55	175			0·90	860	20
662725		12500			16·4	DKGYTN					√	√	5	10	150			4·41	1035	25
662726		12750			10·2	GYTN					√	√	5	5	110			4·11	965	95
662727		13000			17·8	DKGY					√	√	5	35	80			4·41	1450	160
662728		13225			17·5	DKGYWH					√	√	5	55	245			4·11	555	x
662729		13500			11·4	DKGY					√	√	5	80	385			6·46	4900	140
662730		13750			15·6	LTGY					√	√	x	x	15			0·75	265	x
662731		14000			3·0	GY					√	√	x	5	15			0·75	175	x
662732		14225			7·0	DKGYWH					√	√	5	x	10			0·20	145	40
662733		14500			5·3	LTGYWH					√	√	x	x	20			1·16	215	x
662734		14750			7·2	GY			√		√	√	x	15	25			6·01	2800	40
662735		15000			10·2	DKGY					√	√	x	15	35			1·86	545	60
662736		15225			17·8	DKGY					√	√	5	40	160			5·62	2100	240
662737		15550			13·6	DKGY	√		√		NO	√	65	1735	6195			5·96	25	3320

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032069

PROJECT: E-4-A-78
LOCALITY: ZEEHAN
GRID NAME: PYRAMID
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: M. POTTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba by XRF

068

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	SAMPLE LOCATION DATA: GRID EASTING	SAMPLE LOCATION DATA: A.M.G. CO-ORDINATES NORTHING	SAMPLE LOCATION DATA: A.M.G. CO-ORDINATES EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67135	1900N	1200E			1.0	SANDSTN	TR	NE			NO		X	10	10			0.20	10	39
36		25			10.4	LTGY WH			✓		✓	✓	X	50	235			0.39	205	27
37		50			11.8	LTGY	✓	✓			NO	✓	20	455	1000			1.24	165	620
38		75			21.4	LTDKGY			✓		✓	✓	X	40	50			0.64	190	38
39	1300				20.8	LTGY WH			✓		✓	✓	X	55	205			0.83	535	34
67140		25			16.3	LTGY			✓		✓	✓	5	30	90			2.94	1195	57
41		50			15.4	WH LTGY			✓		✓	✓	5	45	135			0.35	165	X
42		75			13.4	WH LTGY			✓		✓	✓	10	30	40			1.79	410	170
43	1400				7.2	GY			✓		✓	✓	X	35	150			0.99	265	69
44		25			5.2	GY			✓		✓	✓	X	40	215			1.44	415	56
45		50			1.8	GY			✓		✓	✓	10	75	155			0.74	105	234
46		75			2.0	GY			✓		✓	✓	10	35	70			1.39	285	156
47	1500				5.3	GY LTGY			✓		✓	✓	15	35	110			2.94	925	238
48		25			9.6	GY			✓		✓	✓	5	25	30			0.94	220	46
49		50			21.3	WH LTGY			✓		✓	✓	X	80	325			1.04	425	100
67150		75			7.2	DKGY			✓		✓		10	60	390			2.34	805	93
51	1600				8.0	LTGY	✓	✓			NO	✓	15	160	985			0.70	30	778
52		25			6.5	GY WH			✓		✓	✓	15	45	135			1.34	15	800
53		50			4.2	LTGY			✓		✓	✓	25	25	130			2.34	65	860
54		75			4.0	LTGY			✓		✓	✓	20	30	125			3.34	85	858
67155	1700				6.1	GY			✓		✓	✓	30	35	190			2.69	60	777

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032070

PROJECT: E.4.A.78
LOCALITY: ZEEHAN
GRID NAME: PYRAMID
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba by XRF

069

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO. (1000N)	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67156		1700E			5·3	LTGY			✓		✓		60	30	235			3·79	86	1000
57		1675			2·1	GY			✓		✓		25	50	100			2·69	55	801
58		50	6055SW?		5·6	DKGYWH			✓		✓	✓	50	1690	3400			2·09	15	723
59		25			6·5	GY			✓		✓	✓	30	90	1900			0·92	10	727
67160		1600			16·2	GYWH			✓		✓	✓	5	120	1850			0·36	120	18
61		75			7·8	GYWH			✓		✓	✓	5	35	1100			0·60	210	41
62		50			6·1	GYWH			✓		✓	✓	10	70	1350			1·84	535	1512
63		25			3·8	GY			✓		✓	✓	15	270	7400			1·54	335	2005
64		1500			8·2	DKGY			✓		✓	✓	10	200	22500			1·39	305	1448
65		25			3·7	GY			✓		✓	✓	10	250	7600			1·09	340	1119
66		50			4·4	GY			✓		✓	✓	5	60	3150			0·86	395	173
67		25			9·5	GY			✓		✓	✓	5	30	25			0·68	165	1333
67168		1400			18·8	LTGYWH			✓		✓	✓	X	20	10			0·17	75	29

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032071

PROJECT: E.L. 4/78
LOCALITY: ZEEHAN
GRID NAME: PYRAMID
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: POLTOCK
DATE: JUNE '85

SIZE FRACTION ANALYSED: Whole
ANALYSED BY: Analabs
METHOD: AAS, Ba by XRF

070

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
66298		17100			3·6	DK GY					√	√	510	60	1185			3·71	710	5910
66299		16775			10·2	GY					√	√	155	20	1655			3·56	550	5540
66300		16550			17·4	DK GY					√	√	210	15	855			1·05	220	410
67001		25			13·2	DK GY					√	√	10	170	505			1·87	660	90
	3	16000			12·0	DK GY					√	√	155	5930	9995			2·00	16955	55
	3	15775			4·2	GY					√	√	5	15	70			0·97	3210	x
	4	550			3·2	DK GY					√	√	5	30	270			2·35	10955	1550
	5	25			4·3	DK GY					√	√	10	630	16955			0·50	4955	35
	6	15000			4·6	DK GY					√	√	x	25	1010			0·216	1015	x
	7	14775			3·2	DK GY					√	√	5	15	40			0·512	1215	x
	8	550			4·0	GY					√	√	10	20	1350			1·45	1010	170
	9	25			3·4	LT GY					√	√	10	1550	25			2·85	7655	75
67010		14000			8·8	GY					√	√	10	30	270			1·65	2610	45
	11	13775			14·4	GY WH					√	√	5	610	3110			0·414	1110	x
	12	550			13·8	GY					√	√	30	40	15			1·45	1410	30
	13	25			7·4	DK GY					√	√	5	25	20			1·85	4455	65
	14	13000			5·6	DK GY WH					√	√	x	40	1410			0·612	2555	45
	15	12775			8·4	BN					?	√	55	50	655			0·42	30	1170
67016		550		GRAVEL	1·6						NO		x	x	5			0·110	110	x

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032072

PROJECT: E.L. 4/78
LOCALITY: ZEEHAN
GRID NAME: PYRAMID
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POLTOCK
DATE: 9-85

SIZE FRACTION ANALYSED: WHOLE
ANALYSED BY: ANALABS
METHOD: A.A.S. Ba by XRF

071

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH (M)	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	BEDROCK	WEATHERED	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67169	12005 N	1575 E			8-16	DKGY			✓		✓		10	255	365			1·29	250	141
170		50			16-17	GYWH			✓		✓	✓	5	25	50			0·78	205	82
171		25			10-10	GY			✓		✓	✓	20	40	65			1·69	226	320
172		1500			16-14	GYWH			✓		✓	✓	5	35	50			0·87	215	91
173		1600			17-18	DKGY			✓		✓	✓	10	70	165			2·09	945	254
174		1625			11-18	GYWH			✓		✓	✓	30	685	1850			1·49	1595	152
175		1650			13-14	GY	✓		✓		✓	✓	55	290	6550			2·09	15	629
176		75			3-18	LTGY			✓		?	✓	5	55	45			0·32	5	689
177		1700			11-8	LTGYWH			✓		✓	✓	15	40	195			4·34	995	528
67178		SAMPLE "A"												75	20			0·19	5	1230

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032073

PROJECT: E.L. 4/78
LOCALITY: ZEEHAN
GRID NAME: PYRAMID
NOMINAL GRID AZIMUTH:

MATERIAL: Bedrock
SAMPLE METHOD: Wacker
SAMPLED BY: N. Poltock
DATE: JUNE 1985

SIZE FRACTION ANALYSED: Whole
ANALYSED BY: Analabs
METHOD: AAS

072

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe%	Mn	Ba
67017	1300N	1625	? FILL		0.8						?		5	740	715			0.68	345	65
18		1600			3.0	GY LT BN					/	✓	10	370	170			1.10	295	130
19		1575			11.4	DK GY					✓	✓	5	15	20			0.73	200	x
67020		50			8.4	DK GY WH					✓	/	x	40	100			0.45	205	x
21		25			10.3	GY	✓	✓			✓	✓	5	15	20			1.10	130	45
22		1500			9.2	DK GY WH					✓	✓	5	15	20			0.95	160	45
23		1475			19.4	GY					✓	✓	5	20	20			0.77	155	30
24		50			12.5	GY			✓		✓	✓	x	50	55			0.45	140	x
25		25			10.4	LT GY					✓	✓	x	10	15			0.47	180	90
26		1400			4.7	LT BN			✓		✓	✓	x	20	90			0.27	180	x
27		1375			7.4	DK GY					/	/	x	15	25			1.25	435	75
67028		50			4.2	DK GY BN	✓				?		10	130	505			1.00	5	340

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032074

073

PROJECT: ...E.L.4/78.....
LOCALITY: ...ZEEHAN.....
GRID NAME: ...PYRAMID.....
NOMINAL GRID AZIMUTH: .....

MATERIAL: ....Bedrock.....
SAMPLE METHOD: .....Wacker.....
SAMPLED BY: .....N. Poltock.....
DATE: ....June....1985.

SIZE FRACTION ANALYSED: ...whole.....
ANALYSED BY: ...Analabs.....
METHOD: ...AAS.....

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67029	1500N	1400			3.8	BN		✓			?	✓	5	60	225			0.20	10	75
67030		25			13.8	DK GY CM		✓			?	✓	5	25	65			0.46	145	x
31		50	GRAVEL		4.2	BN		✓	✓		NO	✓	5	10	15			0.17	x	110
32		75	CLAY		7.0	GY	✓				NO		15	55	265			2.10	35	230
33	1500				6.5	GY					✓	✓	5	20	75			1.80	690	45
34		25			8.8	DK GY					✓	✓	5	15	25			1.20	535	40
35		50			6.4	DK GY					✓	✓	5	30	145			1.15	440	40
36		75	GRAV		3.6	DK GY	✓	✓	✓		NO		15	480	1945			1.55	620	50
37	1600				3.2	DK GY					✓	✓	10	40	180			1.80	885	35
38		25			1.8	LT GY	✓				✓	✓	10	165	825			0.55	455	x
67039		50	GRAVEL		3.8	BN GY CM		✓	✓		NO		5	x	5			0.13	15	50

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032075

PROJECT: EL 4/78
LOCALITY: ZEEHAN
GRID NAME: PYRAMID
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. Poltock
DATE: JUNE 1985

SIZE FRACTION ANALYSED: Whole
ANALYSED BY: Analabs
METHOD: AAS

074

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
670440	1600N	1500			5.8	DK GY CM					✓	✓	10	15	20			1.05	205	55
41		25			6.0	DK GY					✓	✓	5	10	10			1.15	300	35
42		50			1.8	LT GY					✓	✓	10	15	25			2.20	1245	60
43		75			4.2	GY CM					✓	✓	20	30	25			1.80	780	35
44		1600			3.0	DK GY		✓			✓	✓	25	25	65			1.95	320	180
45		25	CLAY		10.8		✓				NO		15	55	160			4.05	1145	240
46		50			2.4						?	✓	5	X	10			0.28	10	170
47		1475			4.9	LT GY BN	✓				✓	✓	5	10	15			0.34	70	X
48		50			8.2	LT GY					✓	✓	5	340	345			0.49	605	X
49		25			4.0	LT BN GY	✓		✓		?	✓	5	20	25			0.77	65	X
670450		1400	GRAVELS		1.8	GY CM		✓	✓		NO	?	✓	5	X	5			0.06	5	X

E.Z. Co. of N'Asia Ltd.,
ROSEBERY. Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032076

075

PROJECT: ....E.L. 4/78.....
LOCALITY: .....ZEEHAN.....
GRID NAME: .....PYRAMID.....
NOMINAL GRID AZIMUTH: .....

MATERIAL: .....BEDROCK.....
SAMPLE METHOD: .....WACKER.....
SAMPLED BY: .....N. PEATOCK....
DATE: .....JUNE..1985...

SIZE FRACTION ANALYSED: .....Whole.....
ANALYSED BY: .....Analabs.....
METHOD: ...ABS., Ba. by XRF

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	A.M.G. CO-ORDINATES: GRID EASTING	NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67051	1700N	1400			* 7.12	RD BN CM	✓				✓	✓	90	225	640			3.85	185	310
52		25			1.8	LT GY					✓	✓	10	210	385			1.50	195	75
53		50			1.5	LT GY					✓	✓	5	160	75			0.26	200	x
*67059		1475			1.1	LT GY					✓	✓	10	225	180			0.33	95	x
54		1500			2.0	DK GY					✓	✓	10	80	315			1.30	475	30
55		25			3.8	LT GY					✓	✓	5	25	170			0.31	145	x
56		50			3.0	GY					✓	✓	10	5	105			10.35	8845	130
57		75			13.3	DK GY	✓		✓		?	✓	20	70	195			2.85	30	280
67058		1600			* 7.4	GY			✓		?	✓	30	325	895			1.00	50	290

E.Z. Co. of A'Asia Ltd.,
ROSEBERY, Tasmania

GEOCHEMICAL SAMPLE DATA SHEET

032077

076

PROJECT: EL 4/78
LOCALITY: ZEEHAN
GRID NAME: PYRAMID
NOMINAL GRID AZIMUTH:

MATERIAL: BEDROCK
SAMPLE METHOD: WACKER
SAMPLED BY: N. POWTOCK
DATE: JUNE 1985

SIZE FRACTION ANALYSED: Whole
ANALYSED BY: Analabs
METHOD: AAS, Ba. Gy XRF

SAMPLE NUMBER	SAMPLE LOCATION DATA: GRID LINE NO.	GRID EASTING	A.M.G. CO-ORDINATES: NORTHING	EASTING	DEPTH	SAMPLE COMPOSITION DATA: COLOUR	Clay	Sand	Rock Frags.	Organic	Bedrock	Weathered	METAL CONTENT (ppm unless specified): Cu	Pb	Zn	Ag	Au	Fe %	Mn	Ba
67060	1800N	1400			2.4	GY	✓		✓		?	✓	15	300	4545			20.85	2.19%	1610
61		25			2.7	LT GY					✓	✓	10	15	135			0.50	180	35
62		50			3.2	DK GY					✓	✓	10	25	120			1.30	225	50
63		75			1.5	GY					✓	✓	5	15	90			0.35	140	X
64		1500			7.8	DK GY					✓	✓	10	15	105			2.15	715	120
65		25			4.2	GY BL	✓	✓	✓		?		40	900	975			0.12	20	140
66		50			6.4	BN LT BN		✓			✓	✓	10	805	35			0.86	555	120

APPENDIX 2.

Winkie Drill Logs and Sections

078

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWM 13

LOCATION E.L. 4/78 Zeehan

OBJECTIVE To test under mineralised puggy clay exposed in costean.

RESULT Low grade zinc mineralisation intersected – some associated with ?secondary pyrite.

TOTAL DEPTH 25.15m
HOLE SIZE TT 46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 80°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS. 50,500N 60,440E
LOCATION Myrtle

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	Cu	Pb	Zn	Fe%	Mn	Ag		CORE REC'D RUN	SHORT
0	8.55m	Non core drilling														0	
	12.80	SILTSTONE BRECCIA, bronze-grey, pyritic, decomposed siltstone fragments broken and separated by secondary fine grained pyrite along irregular fractures.	Secondary pyrite as disseminated grains, as lumps and infilling irregular fractures. ♣	65227	8.55	10.50	1.85	1.95	20	305	1.29%	2.51	35	–		8.55	NR
																9.00	0.10
				228	10.50	12.80	2.30	2.30	15	210	1.59%	4.11	25	–		10.50	–
																12.05	–
	22.25	CAVITY OR CLAY – some uphole cave in of decomposed dark grey siltstone		229	15.10	22.10	?	7.00	15	935	5235	1.81	180	–		12.80	–
																15.10	NR
																17.25	NR
	23.30	SILTSTONE, cleaved and sheared, grey, minor silty SANDSTONE. Cleavage 30° to core axis. Minor fault at 23.30m														18.75	NR
																20.25	NR
				230	22.10	23.30	1.05	1.20	15	190	3335	1.61	290	–		21.10	0.75
																22.10	0.90
																23.25	0.15
	24.75	SILTSTONE, SILTSTONE BRECCIA, SILTY SANDSTONE, sheared, cleaved, grey. Breccia is clastic and fine grained. Some pyrite clasts – pre shearing	10cm with fine grained siderite and cream sphalerite at 24.40m													24.60	0.15
				231	23.30	24.75	1.20	1.45	15	110	7035	1.51	280	–		25.15	–
	25.15m	DOLOMITIC SILTSTONE, pale grey, sheared, cleavage at 40° to core axis	Minor dolomite veining	232	24.75	25.15	0.40	0.40	5	35	250	0.40	175	–			

03029

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWM 14

LOCATION E.L. 4/78
OBJECTIVE To test baritic Pb-Zn mineralisation exposed in costean

RESULT Coarse grained galena-sphalerite mineralisation intersected in decomposed siltstone. 2.1m averages 1.6% Pb 3.9% Zn & 5 g/tAg

TOTAL DEPTH 25.90m
HOLE SIZE TT 46
COMMENCED
COMPLETED
LOGGED BY I.J Mathison

03: 8-12 Depth | 13-16 Direction | 17-18-21 Dip. | 8-12 Depth | 13-16 Direction | 17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 80°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS 50, 500N 60, 390E
LOCATION Myrtle

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	Cu	Pb	Zn	Fe%	Mn	Ag	CORE REC'D: RUN	SHORT
0	2.30m	Non core drilling													0	
				65233	2.30	3.50	0.40	1.20	5	70	25	0.48	10	-	2.30	NR
	3.50	SILTSTONE, pale grey, oxidised													3.50	0.80
															5.05	1.45
	8.35	SILTSTONE, dark grey, decomposed, poor recovery	Minor pyrite on fractures as lumps and disseminated grains	234	3.50	6.40	0.40	1.90	15	460	3535	1.66	20	-	5.40	0.25
				235	6.40	8.35	1.40	1.95	20	820	3785	1.31	30	-	6.40	0.80
															7.30	0.40
	10.80	SILTSTONE, grey-dark grey, massive partially decomposed, occasional cleavage at 30° to core.													7.70	–
				236	8.35	10.95	2.50	2.60	15	650	4135	1.21	20	-	8.35	0.15
															9.75	–
	10.95	SILTSTONE, pyritic and contorted ?slumped	Pyrite fine grained in thin contorted beds													
															10.50	0.10
															12.20	0.20
	12.20	SILTSTONE RUBBLE - up hole cave in		237	10.95	12.20	1.00	1.25	20	3370	6285	1.16	15	0.5	12.85	0.35
															13.85	0.10
	12.85	SILTSTONE, decomposed, dark grey		238	12.20	12.85	0.30	0.65	25	1320	7435	1.76	20	1.0	14.40	0.35
															14.95	0.10
	14.95	SILTSTONE, dark grey, decomposed and leached minor slumped and contorted pyritic siltstone.	Lumps of galena & coarse brown sphalerite filling ellipsoidal vughs 0.5-1.0cm long. Minor cream sphalerite, very fine grained in pyritic siltstone.	239	12.85	13.85	0.90	1.00	40	1.74%	3.49%	1.81	15	6.0	15.85	NR
															17.35	1.40
															18.30	0.90
															21.35	3.00
															25.90	4.50
	25.90	?UPHOLE CAVE IN of black mineralised siltstone. <5% recovery of rubbly core.	As above plus white, coarse grained barite.	240	13.85	14.95	0.65	1.10	35	1.44%	4.19%	2.11	10	4.0		
				241	15.85	25.90	0.25	10.05	45	7900	2650	2.40	<25	3.0		

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080

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWM 15

LOCATION E.L. 4/78 ZEEHAN
OBJECTIVE To test bedrock geochemical anomaly
RESULT No significant mineralisation intersected.

TOTAL DEPTH 38.1m
HOLE SIZE OH - 1.7, TT 46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) -80°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS. 50,600N 60,350E
LOCATION Myrtle Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D %	ASSAY DATA Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn		CORE REC'D RUN	%
0	1.7	Non core drilling														0	
1.7	2.4	LEACHED SILTY? DOLOMITE, dark rusty grey, no carbonate left, rock not cleaved and not hard.		65242	1.7	2.4	100		25	125	6100		1.58	25		1.7	NR
																2.4	100
																3.6	0
																5.5	5
2.4	22.9	DECARBONATISED LIMESTONE, black porous cherty network left after all carbonate removed, occasional bitumenous shears	Minor quartz and pyrite rubble	243	2.4	8.6	5		35	135	2.10%		2.33	25		8.6	10
				244	8.6	13.7	20		25	535	2.13%		2.17	25		10.1	20
																10.4	100
																13.7	10
22.9	23.6	DOLOMITE BRECCIA, black, partially decarbonatised, breccia caused by dolomitisation		245	22.8	23.6	5		10	100	2650		2.40	270		19.8	0
																22.9	10
																23.6	85
23.6	27.4	DOLOMITE BRECCIA, dark grey finely cystalline, irregularly brecciated along network of stylolites with solution. Breccia due to dolomitisation.	Some irregular dolomite veining with minor calcite. Pyrite masses, grains and disseminations in patches.	246	23.6	26.2	90		10	45	730		1.50	310		24.8	70
				247	26.2	28.5	95		5	35	1500		1.40	275		26.2	100
																27.7	100
																28.6	90
																29.4	100
27.4	27.9	QUARTZ CARBONATE VEIN, white dolomite, minor calcite and ore fragment of rock as above.														31.0	100
																32.5	100
																34.0	100
																35.1	100
27.9	28.4	DOLOMITE, dark grey, finely crystalline, stylolites open	Some quartz carbonate veining towards end.													36.6	100
																38.1	100
28.4	31.4	DOLOMITIC SILTSTONE, dark grey, cleaved, minor mica, cleavage and bedding 20° to core		248	28.5	31.3	100		15	50	70		1.50	140			
31.4	31.6	QUARTZ CARBONATE VEIN, white															
31.6	33.8	DOLOMITE BRECCIA, grey to dark grey, fragments of SILTSTONE in fine grained carbonate disrupted by pressure solution along stylolites	Masses, grains and blebs of interfragmental and replacement pyrite irregularly distributed	249	31.3	33.9	100		10	40	505		1.50	190			
33.8	38.1 EOH	DOLOMITE & DOLOMITIC SILTSTONE, thin bedded shearing 30° to core	Small patches of pre-shearing pyrite	65250	33.9	35.1	100		15	40	65		2.00	190			
				251	35.1	38.1	100		10	50	55		1.90	180			

A 11241

032081

081

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWM 16

LOCATION E.L. 4/78 ZEEHAN
OBJECTIVE To test bedrock geochemical anomaly
RESULT No significant mineralisation

TOTAL DEPTH 22.3m
HOLE SIZE OH – 5.8 TT46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 70°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS. 50,600N 60,400E
LOCATION Myrtle Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	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	
0	5.8	Non core drilling													0	
5.8	19.8	CALCAREOUS SILTSTONE, dark grey and grey, decomposed, fractured and leached. c.b.a. 10-30°													5.8	NR
															6.6	40
															7.2	65
															7.8	65
															8.5	100
															9.3	85
															9.9	100
19.8	22.3	DOLOMITIC SILTSTONE, grey to dark grey, weakly micaceous, cleavage 10° to core axis, minor thin carbonate units, leached													10.9	80
															12.2	80
															13.7	20
															18.6	5
															19.2	0
															20.8	30
															21.4	30
	EOH														22.3	45

032082

A 11241

082

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWM 16A

LOCATION E.L. 4/78 ZEEHAN
OBJECTIVE To test bedrock geochemical anomaly – c.f. ZMG 16
RESULT No significant mineralisation intersected

TOTAL DEPTH 28.6m
HOLE SIZE OH -18.0, TT46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 80°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS. 50,600N 60,398E
LOCATION Myrtle Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	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	
U	18.0	Non core drilling															"
																0	
18.0	18.6	PUG + SILTSTONE FRAGMENTS, dark grey														18.0	NR
18.6	22.5	PATCHY LIMESTONE, grey finely clastics wackestone with patches and stringers of dark grey dolomitisation related to pressure solution along stylolites														18.6	50
																19.8	90
																21.3	100
																22.7	"
																24.2	"
22.5	25.6	DOLOMITE, dark grey, finely crystalline, c.b.a. 30° but irregular. Shearing or pressure solution subparallel to core	Minor very fine disseminated pyrite and occasional small patches. Occasional white calcite tension gashes													25.7	"
																27.2	"
																28.6	"
25.6	28.6	PATCHY LIMESTONE, grey fine to medium clastic wackestone with patches and stringers dark grey dolomitisation	Minor concentration of pyrite ~ 5% at 25.7 Very minor disseminated pyrite throughout and in stylolites														
	EOH																

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWM 17

LOCATION E.L. 4/78 ZEEHAN
OBJECTIVE To test bedrock geochemical anomaly
RESULT No significant mineralisation intersected

TOTAL DEPTH 16.9m
HOLE SIZE OH-6.1, TT 46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 80°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS. 50,000N59,872E
LOCATION Myrtle Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
0	6.1	Non core drilling	
6.1	11.5	PEATY SILTSTONE, dark brown grey, decomposed, cleavage parallel to core	2cm fine granular euhedral pyrite at 9.0
11.5	11.6	SILTSTONE, grey, decomposed	
11.6	14.5	CLAY, grey	
14.5	15.3	SILTSTONE, grey-dark grey, micaceous, decomposed, two cleavages - one parallel to core, one at 30°	
15.3	16.9	QUARTZ VEIN with common rusty vughs.	Traces chalcopyrite on some fracture surfaces
	EOH		

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	
												0	"
												6.1	NR
												7.0	100
												7.8	100
												8.8	90
												9.8	100
												10.8	100
												11.6	100
												12.5	0
												14.0	60
												15.3	70
												16.2	55
												16.9	15

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03 083
032084

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZMM 18

LOCATION E.L. 4/78 ZEEHAN
OBJECTIVE To test bedrock geochemical anomaly

RESULT Minor veinlet and cavity filling sphalerite intersected in fresh limestone

TOTAL DEPTH 31.3m
HOLE SIZE OH-6.7, TT46
COMMENCED
COMPLETED
LOGGED BY J. Mathison

03	8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) -80°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS. 50,000N 59,898E
LOCATION Myrtle Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	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	%
0	6.7	Non core drilling													0	
6.7	13.9	SKELETAL LEACHED LIMESTONE, very poor recovery of leached rusty black cherty skeleton of decarbonatised limestone													6.7 8.2 10.1 11.6	NR 15 0 0
13.9	18.3	PATCHY LIMESTONE, grey fine to medium clastic wackestone with patches and stringers of dark grey dolomitisation related to stylolites. Common early calcite veining and occasional late veins at 80° to core. Veinlet sphalerite in irregular veins related to stylolites.	14.1-14.3 pale brown sphalerite in calcite veinlets and cavity filling. 17.0 Minor galena on rim of calcite vein 15.9 Pyrite veinlet in stylolite												14.0 15.4 17.9 19.4 20.9 22.3 25.3 26.8 28.3 29.8 31.3	5 100 " " " " " " " "
18.3	22.4	LIME MUDSTONE, grey and pale grey, spotty numerous irregular stylolites and carbonaceous micro shears sub parallel to core	Trace sphalerite at 19.9 Occasional pyrite in stylolites Some calcite veining													
22.4	28.3	LIME MUDSTONE, pale grey, cut by irregular stylolites and low angle closely spaced shears-carbonaceous	Minor disseminations and grains of finely crystalline pyrite e.g. at 23.7 Minor calcite veining													
28.3	31.3	LIME MUDSTONE, pale grey, with irregular carbonaceous stylolites and later carbonaceous cleavage or shearing	Patch blebby brown sphalerite associated with early white calcite and stylolite at 28.5													
	EOH															

A 11241

0, 084

0 3 9 0 8 3

085

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWM 19

LOCATION E.L. 4/78 ZEEHAN

OBJECTIVE To test bedrock geochemical anomaly

RESULT No mineralisation in bedrock. Coarse sphalerite in overburden

TOTAL DEPTH 24.7m
HOLE SIZE OH - 11.3, TT46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 80°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS. 50,000N 59,919E
LOCATION Myrtle Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	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	
0	11.3	Non core drilling	Coarse dark brown sphalerite washed out of cuttings when clearing casing													0	NR
11.3	18.7	LIME MUDSTONE, pale grey, traces laminations 70° to core disrupted by cleavage and irregular stylolites. Cleavage 10-20° to core														11.3	NR
																12.7	100
																14.2	"
																15.7	"
																17.2	"
18.7	20.5	LIME MUDSTONE, pale grey with spots of white calcite	Early calcite veins associated with stylolites; late calcite veins. Occasional pyrite grain													18.7	"
																20.2	"
																21.7	"
																23.2	"
20.5	24.7	LIME MUDSTONE, pale grey, cleaved 20° to core	Irregular veins and patches of white calcite													24.7	"
	EOH																

032086

A 11241

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWM 19A

LOCATION E.L. 4/78 ZEEHAN

OBJECTIVE To investigate coarse grained sphalerite washed out of overburden when drilling ZWM 19.

RESULT Scattered grains and veinlets of sphalerite occur throughout the overburden of decomposed limestone.

TOTAL DEPTH 11.6m
HOLE SIZE OH - 1.5, 1146
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 80°
DIRECTION (16-19) 090° AMG
R.L. (20-23)
CO-ORDS. 50,000N 59,918E
LOCATION Myrtle Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
0	1.5	Non core drilling	
1.5	5.2	DECOMPOSED LIMESTONE, oxidised, rubbly	Occasional grains and veinlets brown sphalerite
5.2	10.1	PUG with fragments of decomposed LST as above	Occasional grains brown sphalerite
10.1	11.6	LIME MUDSTONE, pale grey, partially decomposed on fresh LST	Galena veinlet on contact with fresh LST. No mineralisation in fresh limestone.
	EOH		

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	%
0	
1.5	NR
1.7	25
2.1	15
3.0	35
4.0	10
5.2	10
10.1	5
11.6	20

A 11241

086

0320863

087

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWG 20

LOCATION E.L. 4/78 ZEEHAN
OBJECTIVE To test along strike for extensions of the lead-zinc mineralisation exposed by costean 47,100N
RESULT No significant mineralisation intersected. Possible fault zone.

TOTAL DEPTH 14.9m
HOLE SIZE O.H. -2.6; TT46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 60°
DIRECTION (16-19) 161° AMG
R.L. (20-23)
CO-ORDS. 47,150N 61, 125E
LOCATION Grieves Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	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 %WORK
0	2.6	Non core drilling															
2.6	3.5	LIME MUDSTONE, dark grey with 5cm fossil band with corals and gastropods	Moderate calcite veining													0	
																2.6	N.R.
																3.1	70
3.5	4.2	CALCITE VEIN, slickensided at 10° to core, fragments of dark grey LST														4.2	85
																5.5	100
																7.0	100
4.2	5.5.	LIME MUDSTONE, dark grey	Calcite veining subparallel to core													8.2	15
																9.3	85
																10.6	100
5.5	9.0	NODULAR LIMESTONE, dark grey, c.b.a. 70° stylolites sub parallel to core	Minor pyrite replacement of fossils at end. Some calcite veining													11.3	95
																12.8	95
																13.4	100
																14.0	30
9.0	14.9	LIMESTONE, dark grey, broken, brecciated and veined	Calcite veins 30° to core													14.7	70
																14.9	100
	E.O.H.																

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088

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWG 21

LOCATION E.L. 4/78 ZEEHAN
OBJECTIVE To test along strike for extension of lead-zinc mineralisation exposed in costean 47,100N
RESULT No mineralisation intersected.

TOTAL DEPTH 35.6m
HOLE SIZE OH -4.8, TT46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 80°
DIRECTION (16-19) 161° AMG
R.L. (20-23)
CO-ORDS. 47,150N 61,140E
LOCATION Grieves Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
0	4.8	Non core drilling	
4.8	8.4	LIMESTONE, fine grained, dark grey with some banding at 50° to core, some shearing	Some calcite veining
8.4	12.8	LIMESTONE, intensely broken and partially leached	Intense calcite veining
12.8	15.9	BIOCLASTIC WACKESTONE, fine grained, dark grey, stylolitic, broken	Irregular calcite veining thru out. 40cm white calcite vein at end
15.9	22.7	BANDED LIMESTONE, thin bioclastic wacke-stone and nodular limestone with bands and patches of dolomitisation	
22.7	25.8	BIOCLASTIC GRAINSTONE, grey, sparry cement between fossil fragment ghosts	
25.8	35.6	NODULAR AND BANDED LIMESTONE, minor leaching and cave breccia at 34.9, some irregular stylolites.	Some irregular calcite veins
	E.O.H.		

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	%
0	
4.8	NR
5.4	75
6.6	100
8.2	100
9.0	80
10.2	65
11.3	90
11.9	40
12.2	100
13.2	"
14.3	"
15.7	"
17.2	"
18.7	"
20.2	"
21.7	95
23.3	100
24.7	"
26.3	"
27.8	"
29.3	"
30.8	"
32.5	"
34.0	"
35.6	95

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089

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWG 22

LOCATION E.L. 4/78 ZEEHAN

OBJECTIVE To test along strike for extensions of the mineralisation in costean on 47,100N

RESULT 0.8m of altered and mineralised limestone intersected averaging 17.5% Zn and 1.5% Pb

TOTAL DEPTH 16.0m
HOLE SIZE OH - 7.7; TT46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 80°
DIRECTION (16-19) 161° AMG
R.L. (20-23)
CO-ORDS. 47,150N 61,171E
LOCATION Grieves Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D %	ASSAY DATA Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn	Ba	CORE REC'D RUN	%
0	7.7	Non core drilling														0	
7.7	8.2	LIMESTONE, grey, partially decomposed	Pyrite in 1cm calcite vein at start at 20° to core Irregular calcite veinlets	65263	7.7	8.2	95		10	595	1400		3.91	350		7.7	NR
																7.9	75
																9.5	95
																11.4	15
8.2	9.4	LIME MUDSTONE, grey with some bands dark grey dolomitic LST, sheared and broken at end	Irregular calcite veining	264	8.2	9.4	95		15	205	1150		0.53	240		11.8	75
																12.9	90
																13.7	85
																14.4	40
9.4	11.4	LIMESTONE, grey, broken, poor recovery	Pyrite in calcite veins	265	9.4	11.4	15		10	1985	1.15%		3.26	420		16.0	55
11.4	12.2	MINERALISED LIMESTONE, veined and altered, solution and alteration brecciation Sample 63640 11.8m	No visible sulphides but rock moderately dense	252	11.4	12.2	80	0.8	10	1.49%	17.49%		13.66	6045			
12.2	16.0	BRECCIATED LIMESTONE, partially rehealed, broken grey LIME MUDSTONE. Slickensided calcite veins	Minor pyrite as lumps in breccia	266	12.2	14.0	85		10	3635	5900		0.96	380			
				267	14.0	16.0	50		10	3285	5200		0.67	530			

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWG 23

LOCATION E.L. 4/73 - ZEEHAN

OBJECTIVE To test bedrock geochemical anomaly extending eastwards from an inferred mineralising fault.

RESULT Trace sphalerite in thin calcite vein at 20.9m

TOTAL DEPTH 28.dm
HOLE SIZE OH -7.3, TT46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 70°
DIRECTION (16-19) 161° AMG
R.L. (20-23)
CO-ORDS. 47,300N 61,275E
LOCATION Grieves Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn	Ba	CORE REC'D RUN	CORE REC'D ~~SHORT~~
0	7.3	Non core drilling														0	
7.3	11.4	SILTY LIMESTONE, pale grey with irregular carbonaceous stringers and occasional bands dolomitised. Rounded dark grey chert nodules at 10.4 and 10.9 c.b.a. 60°														7.3	NR
																8.4	55
																9.5	75
																11.0	100
11.4	13.4	BANDED and NODULAR LIMESTONE partially leached, c.b.a. 65°		65253	20.0	21.0	90%	1.0	10	170	2190		0.80	285		12.2	"
																13.7	"
																15.1	"
13.4	21.3	NODULAR LIMESTONE, dark grey core broken 17.4-18.9	0.5cm sphalerite veinlet in calcite at 20.9; calcite veins with soft brown mineral at 19.7 Irregular calcite veins through out													16.6	"
																17.7	90
																18.5	100
																19.1	85
																20.4	100
																21.2	90
21.3	23.6	BIOCLASTIC GRAINSTONE, pale grey, recrystallised, with thin LIME MUDSTONE at 22.0 with 5cm bedding plane calcite vein on top	Common calcite veins													22.3	100
																23.5	"
																24.4	80
																25.1	80
23.6	28.2	LIME MUDSTONE and BIOCLASTIC WACKESTONE grey with some bands, patches and stringers of dark grey dolomitic LST, some with white calcite rims. c.b.a. 60° Possible algal laminations 26.1	Moderate irregular calcite veining throughout													26.6	100
																28.0	"
																28.8	"
282.	28.8	LIMESTONE, leached, brecciated and partially decomposed; some peaty brown PUG															

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWG 24

LOCATION E.L. 4/78, Zeehan
OBJECTIVE To test a bedrock geochemical anomaly
RESULT Intersected brown siltstone - possible cave deposit

TOTAL DEPTH 13.0m
HOLE SIZE OH -7.3, TT46
COMMENCED Dec, '85
COMPLETED
LOGGED BY I.J. Mathison

03 8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 70°
DIRECTION (16-19) 161° AMG
R.L. (20-23)
CO-ORDS. 47,300N 61,290E
LOCATION Grieves Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	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 %
0	7.3	Non core drilling													0	
7.3	9.1	NODULAR LIMESTONE, grey : very fine bio-clastic wackestone segregated into 5 to 10mm nodules by wispy, dark grey dolomitic limestone													7.3 7.5 9.0 9.3 10.9	NR 50 100 100 50
9.1	12.4	LIMESTONE WITH CAVITIES; includes nodular, coarsely crystalline and carbonaceous LST. Contains two thin bands of purplish brown and green silty or sandy LST													12.4 12.8	50 75
12.4	13.0	SILTSTONE, purplish brown, shaly partings at 80° to core, minor green													13.0	50
	EOH															

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWG 25

LOCATION E.L. 4/78 - ZEEHAN

OBJECTIVE To test a bedrock geochemical anomaly

RESULT Intersected brown siltstone and sandstone - possible cave deposit

TOTAL DEPTH 24.2m
HOLE SIZE OH -3.4; TT46
COMMENCED
COMPLETED
LOGGED BY T.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23)
CO-ORDS. 47,300N 61,305E
LOCATION Grieves Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
0	3.4	Non core drilling	
3.4	6.0	SILTSTONE AND SANDSTONE, rubbly cave in and clay with lengths and fragments of red brown SLT & SST	
6.0	11.9	SANDSTONE AND SILTSTONE, cyclic sequence of fine red brown quartz wacke grading up hole to massive red brown SLT. Erosional features, sole marks and graded bedding give consistent up hole facing. c.b.a. 70°	
11.9	16.6	LIME MUDSTONE, pale grey with occasional small bioclasts. Scattered 2-10cm bands purplish brown silty limestone contain rounded and broken clasts of pale grey limestone	
16.6	19.5	LIME MUDSTONE, grey patchy dolomitization along stylolites, occasional wackestone and packstone bands, c.b.a. 35°. Small patch red brown silty LST at 18.2	
19.5	20.9	LIMESTONE: pale grey; a 40cm colonial coral and a 15cm patch of fine grained LST 'floating' in patchily dolomitized nodular limestone	
20.9	22.6	CAVITY	
22.6	24.2	LIMESTONE, very fine grained, stylolitic contains a 1cm fracture filled with red brown silty limestone.	
	EOH		

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 S
												NR
											0	
											3.4	NR
											3.7	60
											4.2	80
											4.9	85
											5.3	50
											6.0	85
											6.4	100
											6.8	75
											7.1	100
											7.4	65
											7.7	65
											8.2	80
											8.8	100
											9.8	"
											11.2	"
											12.0	60
											13.0	100
											14.5	"
											15.8	"
											16.6	"
											18.0	"
											19.1	"
											19.5	"
											22.6	45
											23.2	100
											23.9	"
											24.2	"

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093

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (1-7) ZWM 26

LOCATION E.L. 4/78 – ZEEHAN

OBJECTIVE To test for an extension of mineralised limestone intersected by ZWG 22.

RESULT Mineralised limestone intersected over entire hole.
Best assay 1.9m of 0.9% Pb, 7.25% Zn

TOTAL DEPTH 22.4m
HOLE SIZE OH -5.3, TT46
COMMENCED
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23)
CO-ORDS. 47,150N 61,185E
LOCATION Grieves Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D %	ASSAY DATA: Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn		CORE REC'D: RUN	%
0	5.3	Non core drilling														5.3	NR
5.3	7.9	NODULAR LIMESTONE, dark grey, often brecciated and altered around breccia	Sideritised and ?mineralised around breccia zones. No visible sulphides	65254	5.3	7.9	90	2.6	15	9435	2.30%		2.25	1350		6.9	85
																8.4	100
																10.1	100
																11.6	65
7.9	10.0	NODULAR LIMESTONE, grey in dark grey, partially leached and oleached		255	7.9	10.0	95	2.1	10	3335	9495		0.79	295		11.7	100
																13.0	70
																14.1	100
10.0	11.9	BRECCIATED LIMESTONE, often leached around 20cm cavities	Sideritised in brecciated zones	256	10.0	11.9	65	1.9	10	9535	7.25%		5.55	2250		15.5	70
																16.0	100
																17.9	25
11.9	15.8	NODULAR LIMESTONE, fossiliferous, patchy dolomitisation. Some leaching and oleaching around small cavities		257	11.9	13.9	80	2.0	10	1785	6170		1.00	315		19.3	100
				258	13.9	15.8	80	1.9	10	3085	6895		0.56	305		19.4	"
																20.8	"
																22.3	"
15.8	20.4	NODULAR LIMESTONE with some breccia zones around calcite veins and cavities	Breccia zones sideritised. Minor galena around 1cm calcite vein at 19.2	259	15.8	17.8	30	2.0	5	1.80%	3.20%		4.70	1650		22.4	"
				260	17.8	20.4	95	1.6	10	5185	8495		1.20	545			
20.4	22.4	LIMESTONE, fine grained with brecciated patches associated with late calcite veins and patches. Numerous 3mm carbonate rhombs in altered patches.	Sideritised breccia zones.	261	20.4	21.4	100	1.0	10	8485	6.85%		6.60	2500			
				262	21.4	22.4	100	1.0	5	4785	2.55%		2.85	1200			

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZR 27

LOCATION E.L. 4/78 – ZEEHAN

OBJECTIVE To test bedrock geochemical anomaly.
Wacker sample reported 1.0% Zn and 0.6% Pb.

RESULT Lumps of coarse galena and sphalerite recovered with rubbly limestone

TOTAL DEPTH 10.1m
HOLE SIZE OH -5.7, IT46
COMMENCED
COMPLETED Jan '86
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23) 144.9
CO-ORDS. 1100N 1600E
LOCATION Pyramid Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 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	%
									Cu	Pb	Zn	Ag	Fe%	Mn	0	
0	5.7	Non core drilling													5.7	NR
	8.0	SILTY LIMESTONE, dolomitized, grey, rubbly core, leached	Some vughs with coating of white dolomite rhombs	65268	5.7	8.2	60%		15	170	1250		1.01	670	6.4	40
															6.7	100
	9.1	SILTY LIMESTONE, dolomitized, grey, leached c.b.a. 30°	Vughs with white dolomite rhombs	269	8.2	9.1	90%		10	210	1300		1.56	1100	7.1	75
															7.8	10
															8.2	50
	9.5	SILTY LIMESTONE, rubble	Lumps of coarse grained galena and pale brown sphalerite	270	9.1	9.5	25%		145	4.99%	5.2%	28	1.76	1400	8.8	80
															9.1	100
															9.5	25
	10.1	SILTY LIMESTONE, rubble	Lumps of coarse grained pale grey dolomite	271	9.5	10.1	25%		15	1885	1.15%		1.71	1200	9.7	30
															10.1	25

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWP 28

LOCATION E.L. 4/78 – Zeehan

OBJECTIVE To attempt to intersect the coarse galena and sphalerite mineralization of ZWP 27 in fresher rock

RESULT Hole failed because of broken and cavernous ground

TOTAL DEPTH 8.0m
HOLE SIZE OH -5.8, TT46
COMMENCED
COMPLETED Jan, 1986
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23) 144.9
CO-ORDS. 1100N 1603.5E
LOCATION Pyramid Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
0	5.8	Non core drilling	
	8.0	SILTY LIMESTONE, pale grey, rubble, one piece with laminations and rip up clasts c.b.a. 30°	

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	SAMPLE
											0	
											5.8	NR
											6.1	30
											6.9	10
											7.0	50
											7.2	50
											7.3	50
											7.6	60
											8.0	70

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWP 29

LOCATION E.L. 4/78 – ZEEHAN

OBJECTIVE To test bedrock geochemical anomaly.
Wacker sample reported 3400ppm Zn and 1690 ppm Pb

RESULT Intersected siltstone with weakly elevated Pb and Zn geochemistry

TOTAL DEPTH 16.7m
HOLE SIZE OH – 3.8, TT46
COMMENCED Feb '86
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23) 144.9
CO-ORDS. 1000N 1650E
LOCATION Pyramid Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 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
0	3.8	Non core drilling														%
	4.4	SANDSTONE, grey, silicified	Occasional siderite veinlet with trace galena												0	
															3.8	N.R.
															4.4	20
	14.8	SILTY SANDSTONE, grey, fine-medium grained trace mica and very high porosity; wispy carbonaceous material; grains well sorted in 0.2-0.3mm range		65272	9.6	12.6	85%		20	125	770		1.31	45	6.9	10
															7.6	85
															8.8	85
															9.6	40
															10.2	100
															11.2	50
															12.6	100
															13.8	100
															14.7	100
															15.5	50
	16.7	DECOMPOSED SANDSTONE, brown, peaty and puggy.													16.7	25

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097

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWP 30

LOCATION E.L. 4/78 ZEEHAN

OBJECTIVE Geological; to locate limestone grid west of sandstone-siltstone at 1,650E

RESULT Unmineralized limestone intersected

TOTAL DEPTH 18.6m
HOLE SIZE OH - 6.4, TT46
COMMENCED Feb '86
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23) 144.6
CO-ORDS. 100UN 160UE
LOCATION Pyramid Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 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 %
																%
0	6.4	Non core drilling													0	
	18.2	LIMESTONE, dark grey, rubbly leached, partially decomposed		65273	14.4	17.6	25%		10	75	195		0.96	505	6.4	NR
															6.5	100
															7.0	20
	18.6	LIMESTONE, grey and dark grey, oioclastic wackestone patchily dolomitized. Limestone remnants leached	Some calcite veinlets	274	18.2	18.6	90%		10	35	110		1.61	710	14.5	1
															15.9	5
															16.1	20
															16.9	50
															17.6	40
															18.3	5
															18.6	90

A 11241

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098

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWP 31

LOCATION E.L. 4/78 – ZEEHAN

OBJECTIVE To test bedrock geochemical anomaly

RESULT Wacker sample reported 2250 ppm Zn.
No visible mineralization

TOTAL DEPTH 11.6m
HOLE SIZE OH -8.2, TT46
COMMENCED Feb '86
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23) 143.9
CO-ORDS. 1000N 1500E
LOCATION Pyramid Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
U	8.2	Non core drilling	
	10.2	LAMINATED LIMESTONE, pale grey, rubbly and decomposed, c.b.a. 30-35°	Trace very fine pyrite euhedra disseminated
	11.1	LIMESTONE, grey and dark grey, patchily dolomitized bioclastic wackestone to packstone	Some patches cavity filling calcite
	11.6	LIME MUDSTONE, pale grey, fossiliferous stylolitic. Fossils predominantly one kind of small gastropod	Minor fine grained pyrite in recrystallized fossils

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	[redacted]
0	
8.2	NR
8.4	100
9.2	50
10.2	40
11.6	100

A 11241

03209

099

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWP 32

LOCATION E.L. 4/78 - Zeehan
OBJECTIVE To test bedrock geochemical anomaly. Wacker sample reported 6550 ppm Zn
RESULT Intersected siltstone-?Crotty Sandstone

TOTAL DEPTH 27.4m
HOLE SIZE OH -5.3 TT46
COMMENCED Feb. '86
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23) 150.9
CO-ORDS. 1200N 1650E
LOCATION Pyramid Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
U	5.3	Non core drilling	
	10.5	DECOMPOSED SILTSTONE, peaty, minor gravel	Minor very fine grained pyrite
	19.5	SILTSTONE, grey, trace mica, c.b.a. 30° low S.G. because of high porosity	Minor very fine grained pyrite along bedding, as small lenses along bedding and as corss cutting blebs 10.5-12.8
	24.9	SILTSTONE, grey, with very fine grained SILTY SANDSTONE; high porosity	
	27.4	SILTSTONE AND PUG; rubbly	

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 %
												0	
												5.3	NR
												6.1	25
												6.7	15
												7.9	25
												8.5	50
												9.2	70
												10.5	30
												10.9	100
												11.6	70
												12.2	85
												12.8	100
												14.4	70
												14.9	100
												15.8	100
												16.4	85
												17.7	55
												18.4	45
												19.1	100
												19.5	100
												20.9	100
												22.3	100
												23.0	100
												24.2	100
												24.9	70
												26.5	50
												27.4	30

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032100

100

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZWP 33

LOCATION E.L. 4/78 – ZEEHAN

OBJECTIVE To test bedrock geochemical anomaly
Wacker sample reported 1850 ppm Zn

RESULT Intersected dolomitized limestone with weakly elevated Zn geochemistry

TOTAL DEPTH 13.0m
HOLE SIZE OH -7.6, TT46
COMMENCED Feb. '86
COMPLETED
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 90°
DIRECTION (16-19)
R.L. (20-23)
CO-ORDS. 1200N 1625E
LOCATION Pyramid Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 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 %
0	7.6	Non core drilling	Minor peat, gravel and a lump of coarse pyrite washed out of casing												0	
															7.6	NR
	9.5	DOLOMITE, grey, vughy; recrystallized and dolomitized fossiliferous stromatolitic bound stone. 60cm cavity 8.6-9.2	Minor galena in one dolomite filled vugh	65275	7.6	10.1	50%		10	195	405		1.96	1500	8.1	20
															8.5	100
															9.2	15
															9.8	65
															10.5	30
	10.5	DOLOMITE, grey, fine grained, detail obscured by intense dolomite veining and slight bleaching. 40cm cavity at end.	Intense dolomite veining with minor siderite and minor galena												11.7	100
															13.0	80
	13.0	DOLOMITE, grey, vughy; recrystallized and dolomitized coarsely fossiliferous stromatolitic boundstone	Vughs coated with white dolomite euhedra. Inferred coarse calcite filling has been leached by weathering	276	10.5	13.0	90%		10	80	545		1.76	1350		

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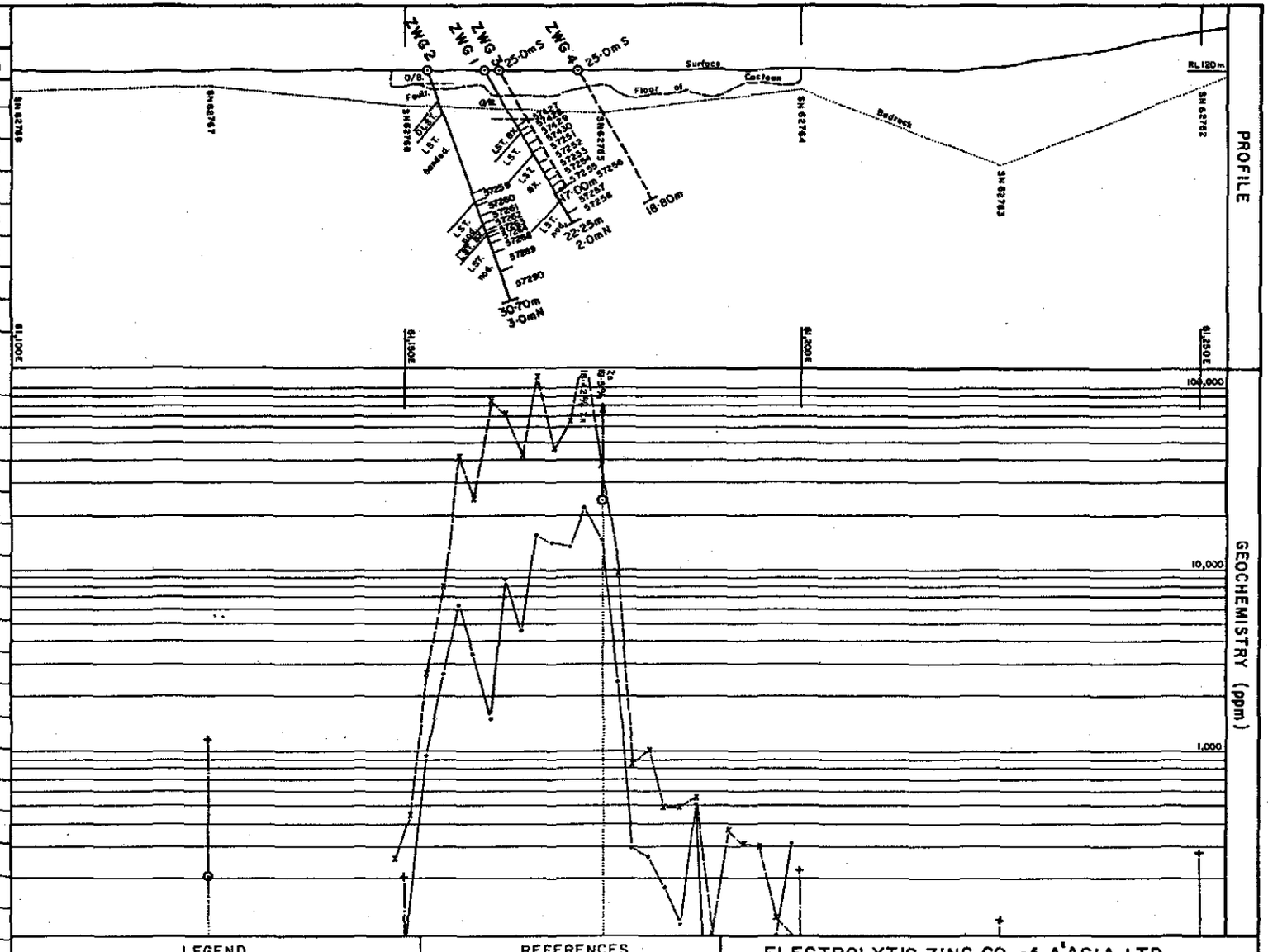
GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
62762	30	285	0·28	55	14
62763	30	130	0·55	115	27
62764	45	220	0·77	155	33
62765	2·45%	19·5%	17·5	5750	23
62766	50	205	0·73	150	32
62767	205	1250	1·30	270	42
62768	35	45	0·47	85	36
WINKIE (Sawn Core)					
ZWG 1					
57427	1·65%	5·95%	5·65	2500	—
57428	2·50%	5·60%	5·40	2200	—
57429	4350	7750	1·30	525	—
57430	3350	1·20%	1·35	635	—
57251	1·65%	8·56%	11·0	4850	—
57252	9000	10·26%	13·5	5500	—
57253	2·05%	7·00%	9·25	3900	—
57254	1·72%	9·74%	10·5	4100	—
57255	2·40%	5·90%	6·95	2850	—
57256	1·09%	8·62%	11·0	4400	—
57257	1900	4250	0·90	325	—
57258	1750	4000	1·15	385	—
ZWG 2					
57259	35	185	0·64	180	—
57260	70	425	0·73	225	—
57261	1525	2000	0·68	300	—
57262	1·85%	7200	2·23	860	—
57263	5125	3350	0·82	495	—
57264	1675	2350	0·80	365	—
57288	3300	1800	0·66	305	—
57289	135	305	0·56	185	—
57290	45	95	0·58	160	—



LEGEND

Costean: Pb, Zn

Wacker: Pb, Zn

REFERENCES

Costean	= A3-532-0077
Wacker Bedrock	= A1-532-0085
Wacker Geochem.-Zn	= A1-532-0091
Wacker Geochem.-Pb	= A1-532-0092

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN — TAS.

GRIEVES GRID

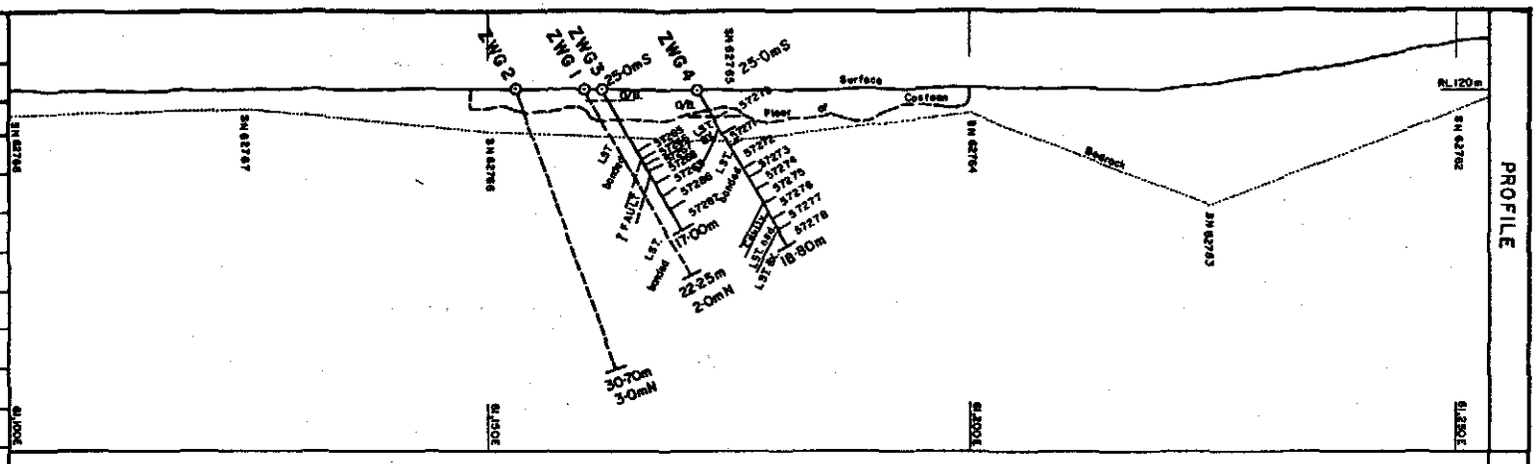
LINE - 47,100 N

Part I of II

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 23-1-'86	REF No. A3-532-0147
DRAWN: R.J.R.	CHECKED:	

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
ZWG 3					
57265	20	140	0·20	100	–
57266	90	460	0·28	185	–
57267	190	530	0·40	235	–
57268	6300	3·02%	3·05	1700	–
57269	2400	8750	0·70	465	–
57286	1450	5050	0·36	325	–
57287	1800	5050	0·40	345	–
ZWG 4					
57270	1·17%	3·18%	2·65	1550	–
57271	3300	4150	0·22	355	–
57272	565	1350	0·14	185	–
57273	945	3150	0·20	280	–
57274	3100	7350	1·25	710	–
57275	4450	5850	0·66	495	–
57276	8600	1·08%	1·25	670	–
57277	1400	4450	0·59	405	–
57278	5600	1·25%	4·05	635	–



LEGEND

REFERENCES

Costean = A3-532-0077

Wacker Bedrock = A1-532-0085

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN — TAS.

GRIEVES GRID — Part II of II

LINE – 47.100N

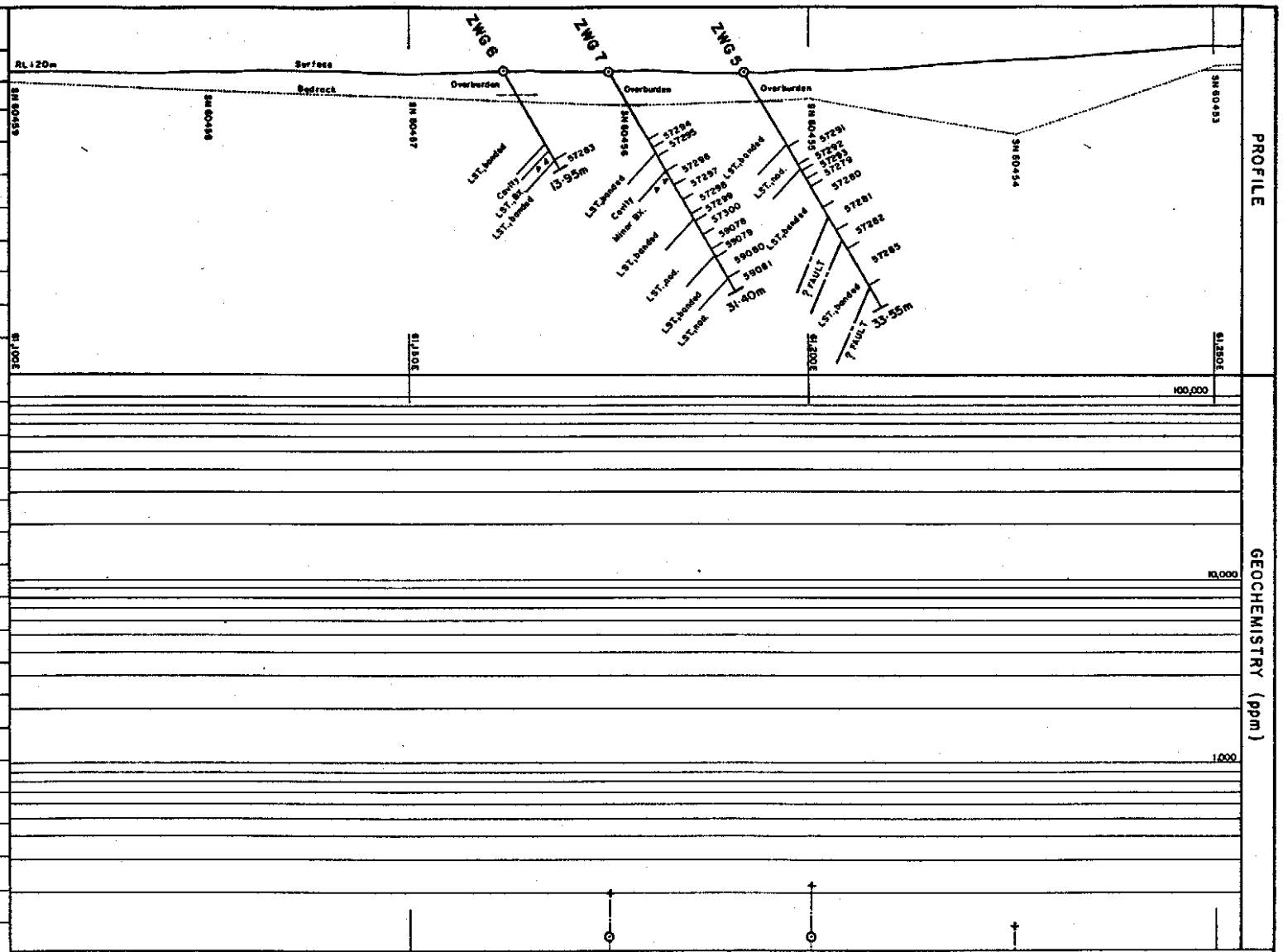
SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 23-1-'86	REF. No. A3-532-0147
DRAWN: R. J. R.	CHECKED:	

102

032103

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
60453	25	50	0·54	50	31
60454	25	150	0·90	X	105
60455	125	225	1·43	50	91
60456	125	200	0·50	50	15
60457	25	X	0·76	50	80
60458	25	25	1·05	225	41
60459	25	X	0·60	125	54
WINKIE (Sawn Core)					
ZWG 5					
57291	10	15	0·55	125	—
57292	10	15	0·47	140	—
57293	15	20	0·67	135	—
57279	30	35	0·56	170	—
57280	15	20	0·41	150	—
57281	30	25	0·48	160	—
57282	25	25	0·22	105	—
57285	25	20	0·65	185	—
ZWG 6					
57283	20	20	0·22	105	—
ZWG 7					
57294	10	25	0·36	105	—
57295	10	15	0·78	230	—
57296	15	115	0·24	115	—
57297	10	45	0·45	190	—
57298	40	45	0·58	160	—
57299	20	15	0·70	180	—
57300	10	15	0·53	160	—
59078	10	10	0·52	145	—
59079	10	15	0·65	150	—
59080	10	10	0·50	140	—
59081	10	10	0·58	150	—



LEGEND

Pb
Zn
Wacker

REFERENCES

Wacker Bedrock	= A1-532-0085
Wacker Geochem.–Zn	= A1-532-0091
Wacker Geochem.–Pb	= A1-532-0092

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN — TAS.

GRIEVES GRID

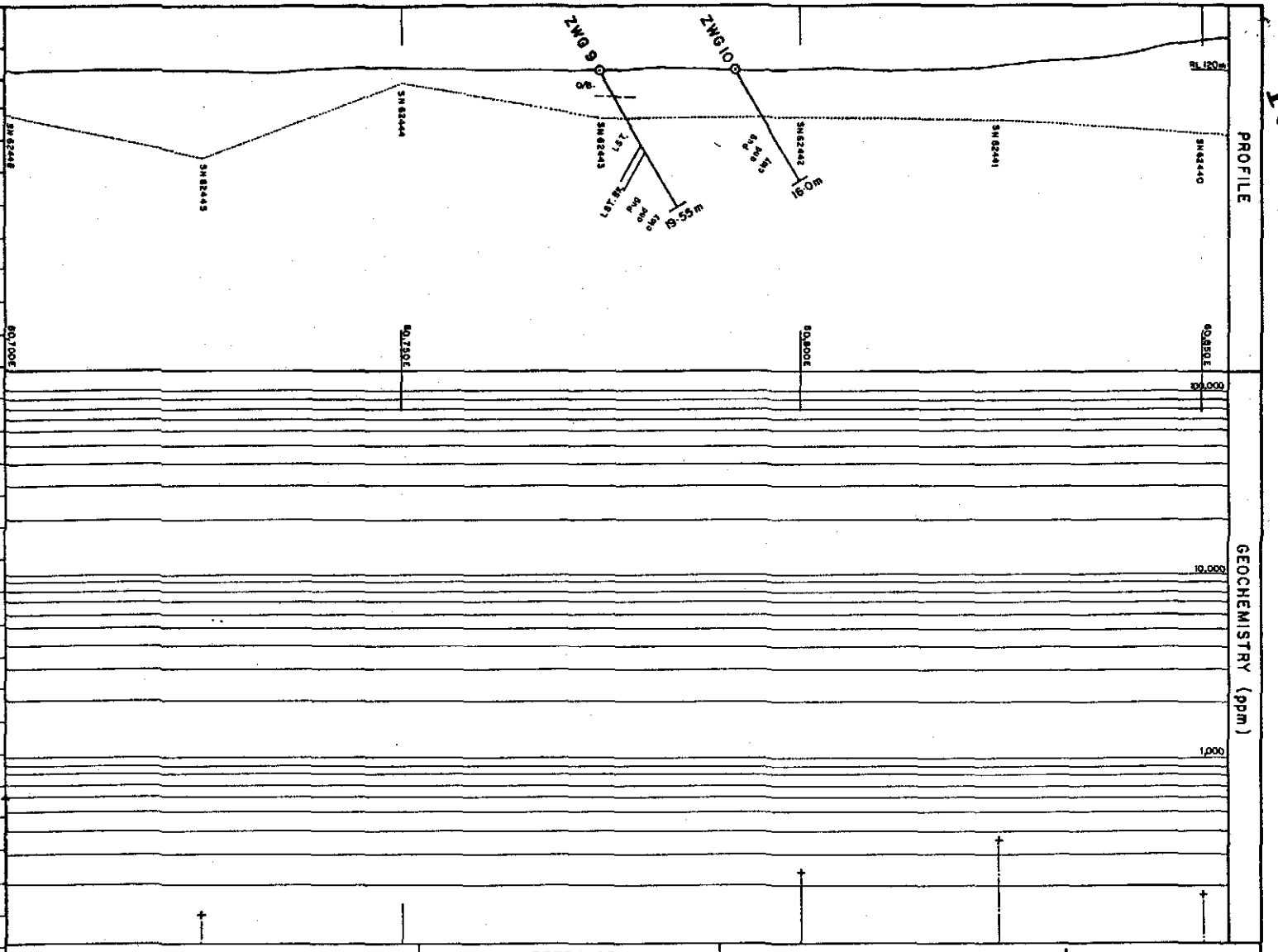
LINE – 47,000N

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 23-1-86	REF. No.
DRAWN: R.J.R.	CHECKED:	A3-532-0146

0321104

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
62440	30	190	1·57	30	380
62441	35	360	1·87	385	112
62442	25	245	0·36	115	35
62443	10	40	1·22	170	105
62444	10	45	0·55	75	42
62445	45	155	1·42	195	139
62446	70	595	1·22	275	37



LEGEND

⊙—— Pb Wacker
+—— Zn

REFERENCES

Wacker Bedrock = AI-532-0085
Wacker Geochem.- Zn = AI-532-0091
Wacker Geochem.- Pb = AI-532-0092

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN | TAS.

GRIEVES GRID Part I of II

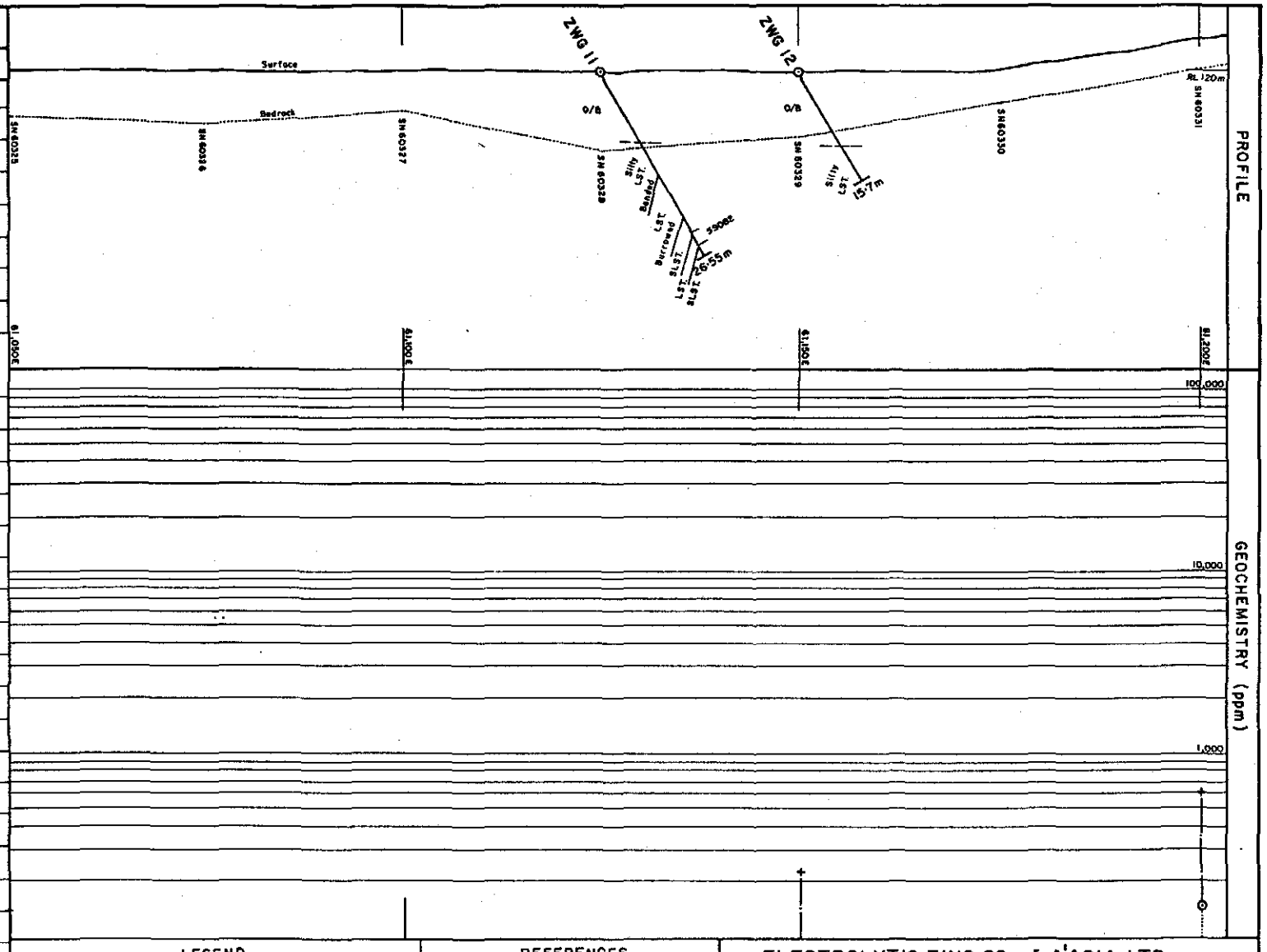
LINE - 47,300N

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 29-1-'86	REF. No.
DRAWN: R.J.R.	CHECKED:	A3-532-0149

03210

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
60331	165	600	0·63	155	X
60330	20	75	0·54	155	X
60329	30	225	1·95	470	66
60328	20	30	0·74	195	58
60327	20	40	0·54	75	23
60326	15	55	1·20	115	19
60325	20	150	0·24	100	30
WINKIE (Sawn Core)					
ZWG 11					
59082	10	20	1·00	305	—



LEGEND

Pb ⊙——— Wacker
Zn +———

REFERENCES

Wacker Bedrock	= AI-532-0085
Wacker Geochem.-Zn	= AI-532-0091
Wacker Geochem.-Pb	= AI-532-0092

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN | TAS.

GRIEVES GRID

LINE-47,300 AN

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 29-1-86	REF. No. A3-532-0150
DRAWN: R.J.R.	CHECKED:	

5 cm

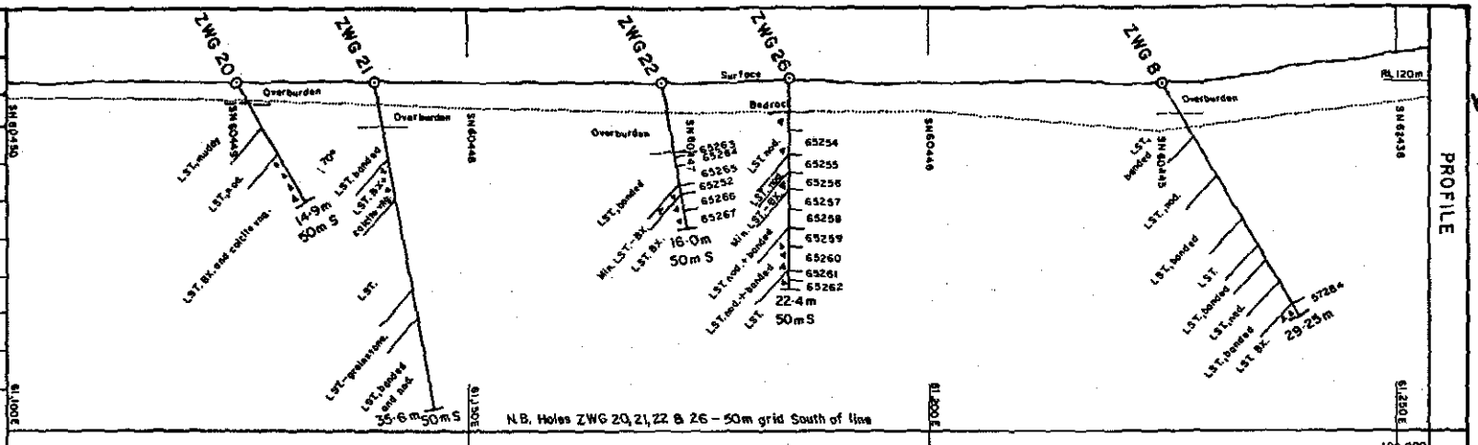
105

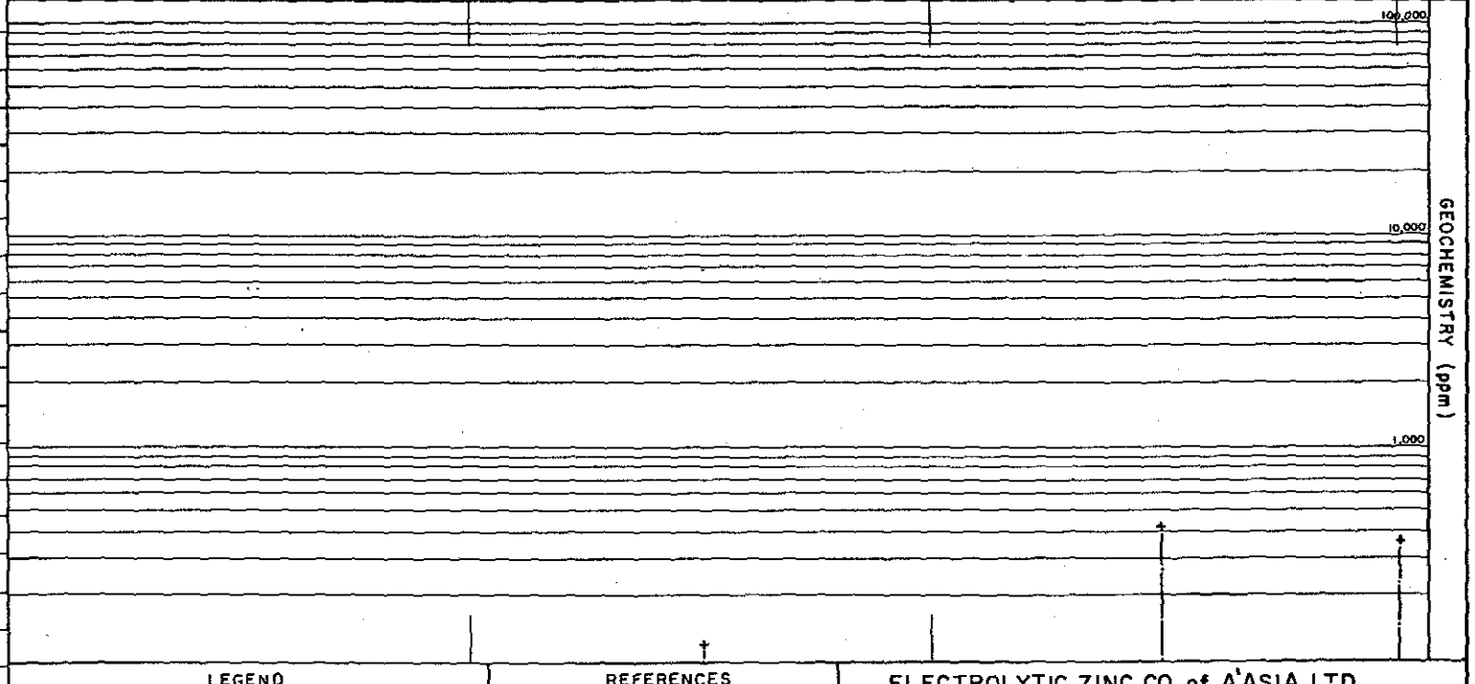
032106

106

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
62438	30	360	0·50	100	14
60445	25	425	0·68	25	21
60446	25	25	0·44	100	23
60447	50	125	0·29	100	25
60448	25	50	0·20	225	11
60449	25	25	0·57	25	80
60450	25	25	0·23	25	24
WINKIE (Sawn Core)					
ZWG 8					
57284	6200	7650	0·35	495	—
ZWG 22					
65252	1·49%	17·5%	13·7	6045	—
65263	595	1400	3·91	350	—
65264	205	1150	0·53	240	—
65265	1985	1·15%	3·26	420	—
65266	3635	5900	0·96	380	—
65267	3285	5200	0·67	530	—
ZWG 26					
65254	9435	2·30%	2·25	1350	—
65255	3335	9495	0·80	295	—
65256	9535	7·25%	5·55	2250	—
65257	1785	6170	1·00	315	—
65258	3085	6895	0·56	305	—
65259	1·80%	3·20%	4·70	1650	—
65260	5185	8495	1·20	545	—
65261	8485	6·85%	6·60	2500	—
65262	4785	2·55%	2·85	1200	—





LEGEND

Pb
Zn
Wacker

REFERENCES

Wacker Bedrock	= AI–532–0085
Wacker Geochem.–Zn	= AI–532–0091
Wacker Geochem.–Pb	= AI–532–0092

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN | TAS.

GRIEVES GRID

LINE – 47,200N

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 24–1–'86	REF. No. A3–532–0148
DRAWN: R.J.R.	CHECKED:	

5 cm

03210

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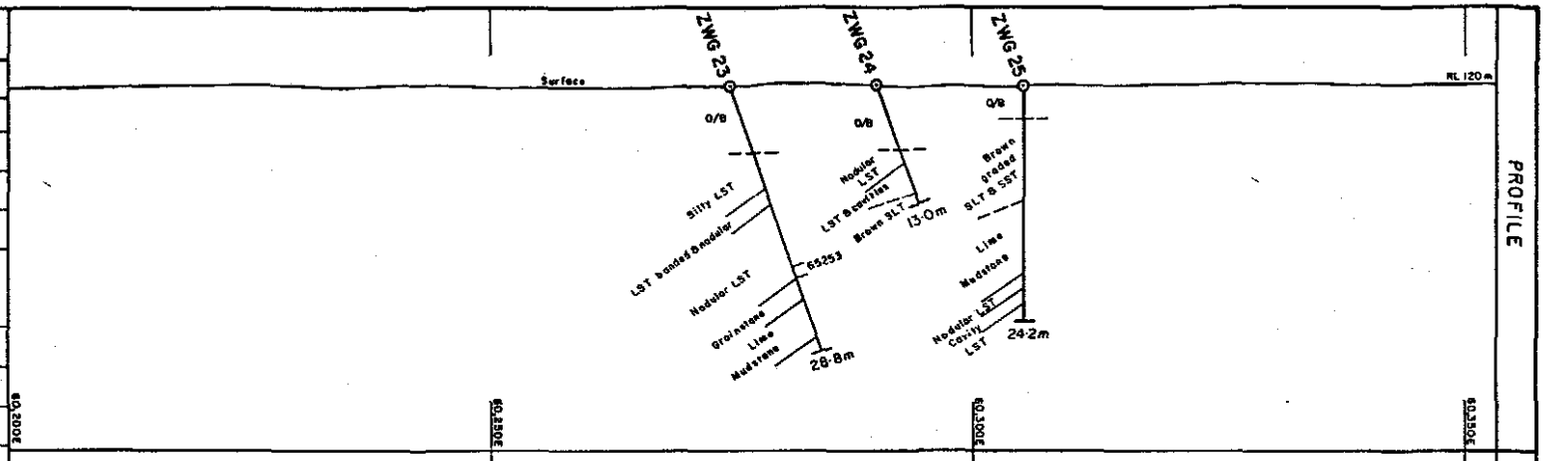
GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
		Nil			
WINKIE (Sawn Core)					
ZWG 23					
65253	170	2190	0·80	285	—



LEGEND

REFERENCES

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN — TAS.

GRIEVES GRID

LINE – 47,300N

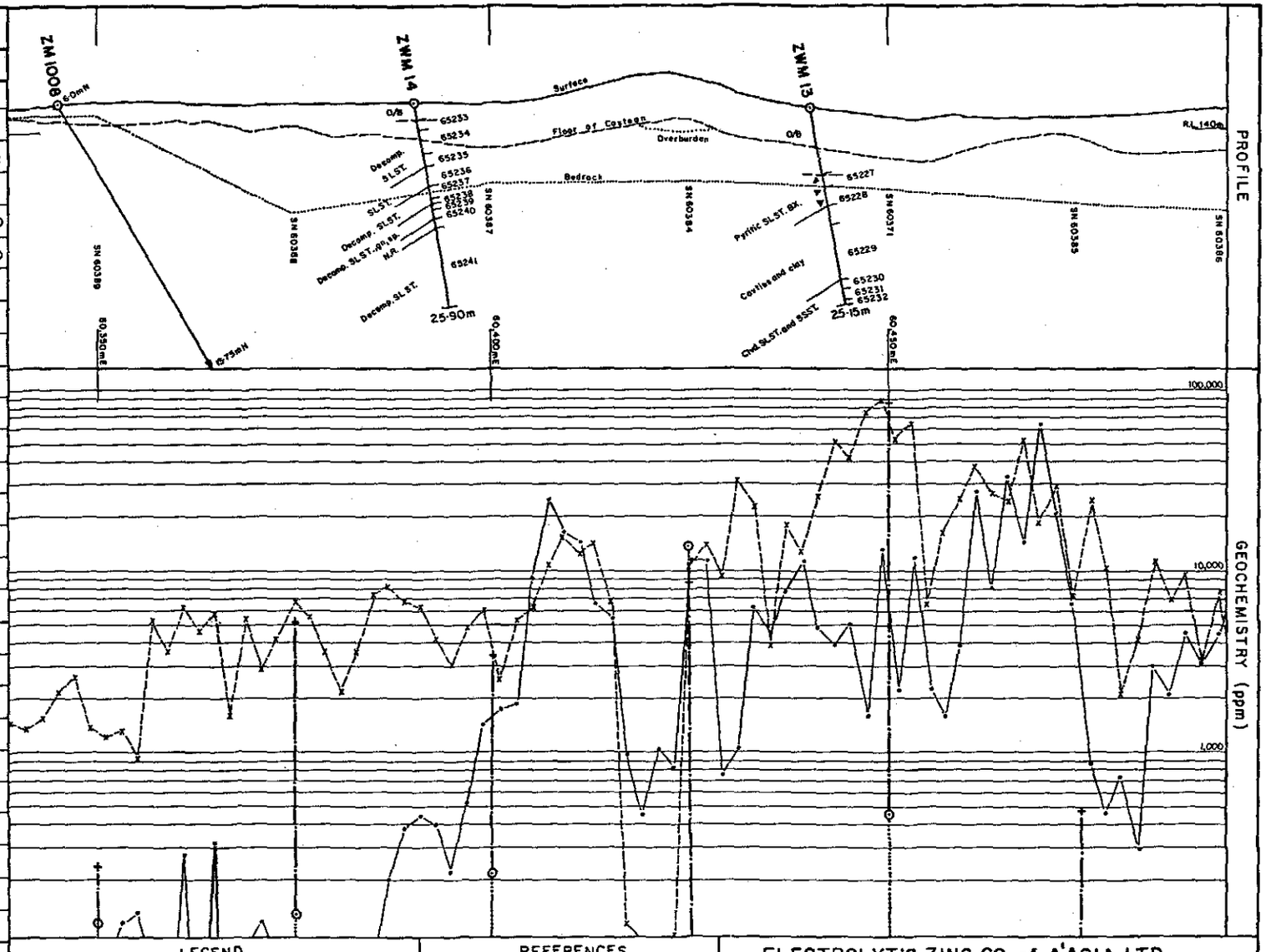
Part II of II

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 29-1-'86	REF. No.
DRAWN: R. J. R.	CHECKED:	A3-532-0149

5 cm

032108

GEOCHEMISTRY					
No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
60389	100	6250	1·70	25	428
60388	130	245	0·25	15	222
60387	140	5150	1·35	25	495
60384	1·50%	8600	0·76	20	2820
60371	455	8·75%	230	25	1960
60385	80	475	0·59	110	116
60386	110	175	1·25	155	80
WINKIE (Sawn Core)					
ZWM 13					
65227	305	1·29%	2·51	35	–
65228	210	1·59%	4·11	25	–
65229	935	5235	1·81	180	–
65230	190	3335	1·61	290	–
65231	110	7035	1·51	280	–
65232	35	250	0·40	175	–
ZWM 14					
65233	70	25	0·48	10	–
65234	460	3535	1·66	20	–
65235	820	3785	1·31	30	–
65236	650	4135	1·21	20	–
65237	3370	6285	1·16	15	–
65238	1320	7435	1·76	20	–
65239	1·74%	3·49%	1·81	15	–
65240	1·44%	4·19%	2·11	10	–
62541	7900	4·45%	1·30	<25	–



LEGEND

Costean: Pb, Zn

Wacker: Pb, Zn

REFERENCES

Costean	= A3-532-0063(2)
Wacker Bedrock	= A1-532-0084
Wacker Geocham. – Zn	= A1-532-0086
Wacker Geocham. – Pb	= A1-532-0087
D.D. Hole – ZM 1008	= A1-532-0142

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN | TAS.

MYRTLE GRID

LINE – 50,500N

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 21-1-86	REF. No. A3-532-0143
DRAWN: R.J.R.	CHECKED:	

5 cm

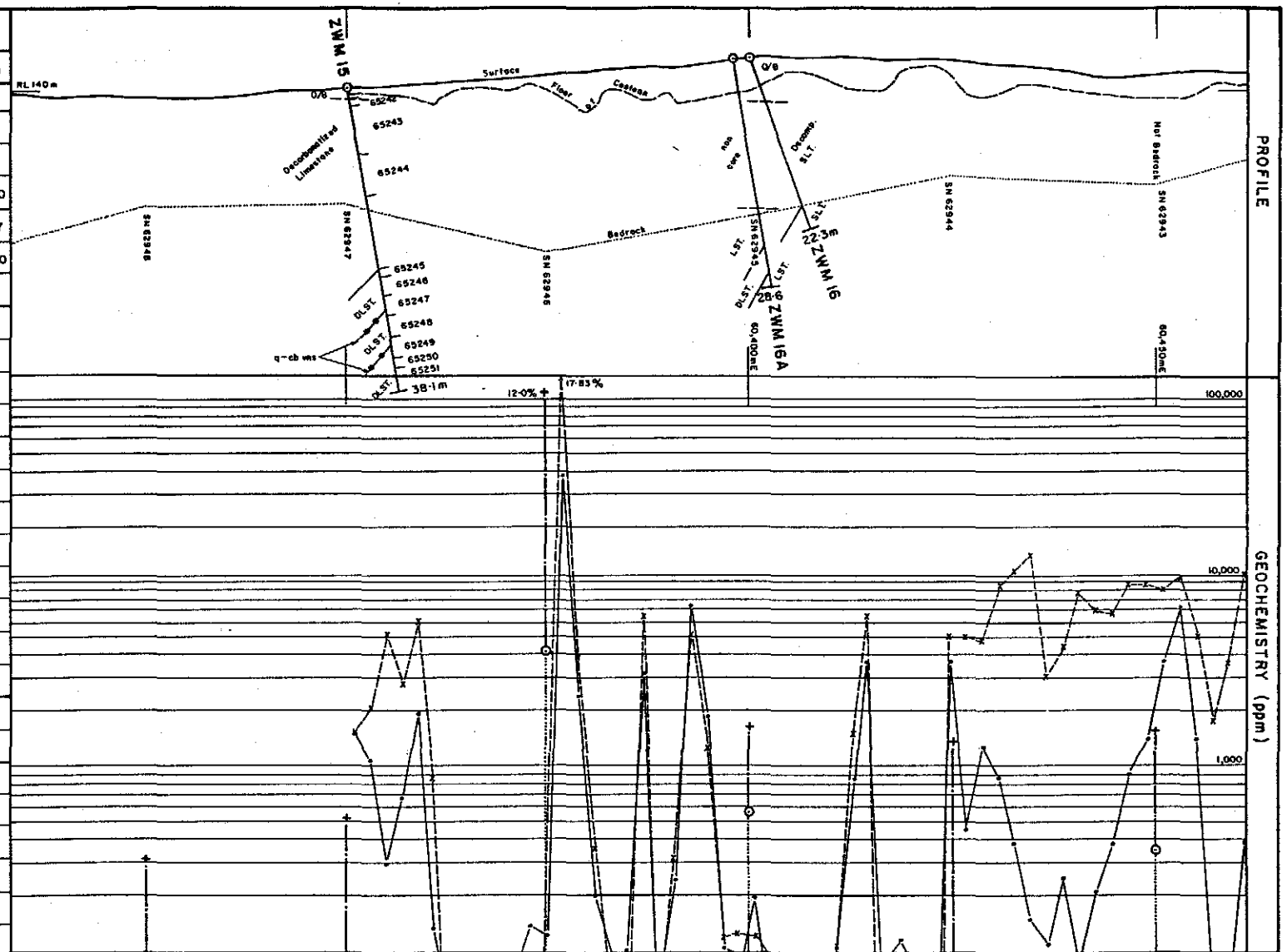
G 108

032109

OC 109

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
62948	65	310	1·80	210	173
62947	65	520	1·15	170	115
62946	4050	12·0%	1·85	10	2020
62945	560	1750	0·97	30	507
62944	65	1450	7·00	20	3070
62943	345	1700	2·25	30	601
WINKIE (Sawn Core)					
ZWM 15					
65242	125	6100	1·58	25	—
65243	135	2·10%	2·33	25	—
65244	535	2·13%	2·17	25	—
65245	100	2650	2·4	270	—
65246	45	730	1·5	310	—
65247	35	1500	1·4	275	—
65248	50	70	1·5	140	—
65249	40	505	1·5	190	—
65250	40	65	2·0	190	—
65251	50	55	1·9	180	—



LEGEND

Costean: Pb, Zn

Wacker: Pb, Zn

REFERENCES

Costean	= A3-532-0066
Wacker Bedrock	= A1-532-0084
Wacker Geochem.- Zn	= A1-532-0086
Wacker Geochem.- Pb	= A1-532-0087

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN — TAS.

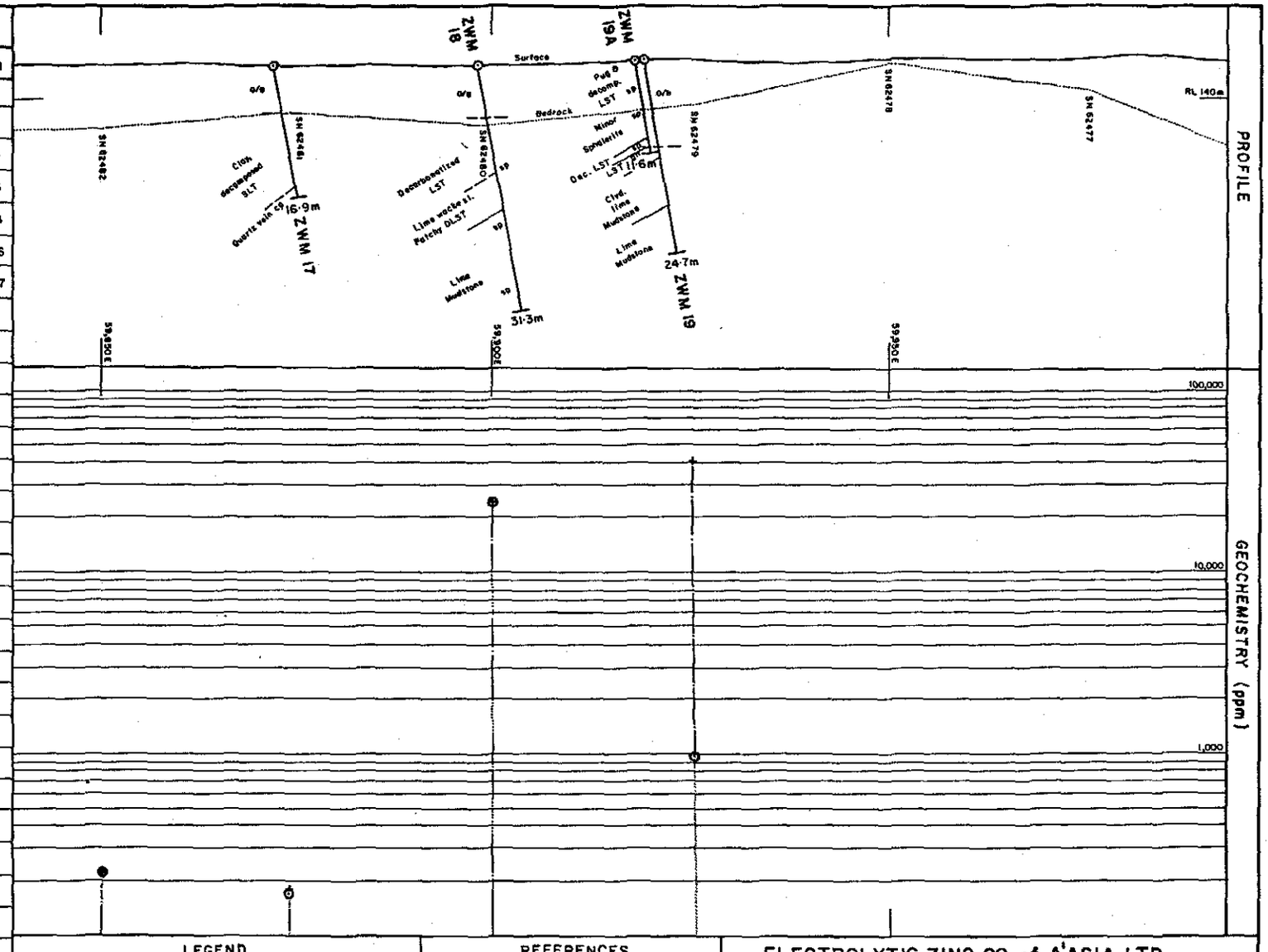
MYRTLE GRID

LINE – 50,600N

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 22-1-'86	REF. No. A3-532-0144
DRAWN: R.J.R.	CHECKED:	

032110

GEOCHEMISTRY					
No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
62477	15	85	0·45	120	7
62478	10	60	0·38	130	24
62479	985	4·03%	1·97	5	176
62480	2·54%	2·43%	0·90	5	154
62481	185	190	3·57	15	336
62482	240	220	1·42	20	447



LEGEND

Pb — Wacker
Zn — Wacker

sp = minor sphalerite
gn = minor galena
cp = minor chalcopyrite

REFERENCES

Wacker Bedrock	= AI-532-0084
Wacker Geochem-Zn	= AI-532-0086
Wacker Geochem-Pb	= AI-532-0087

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN — TAS.

MYRTLE GRID

LINE - 50,000N

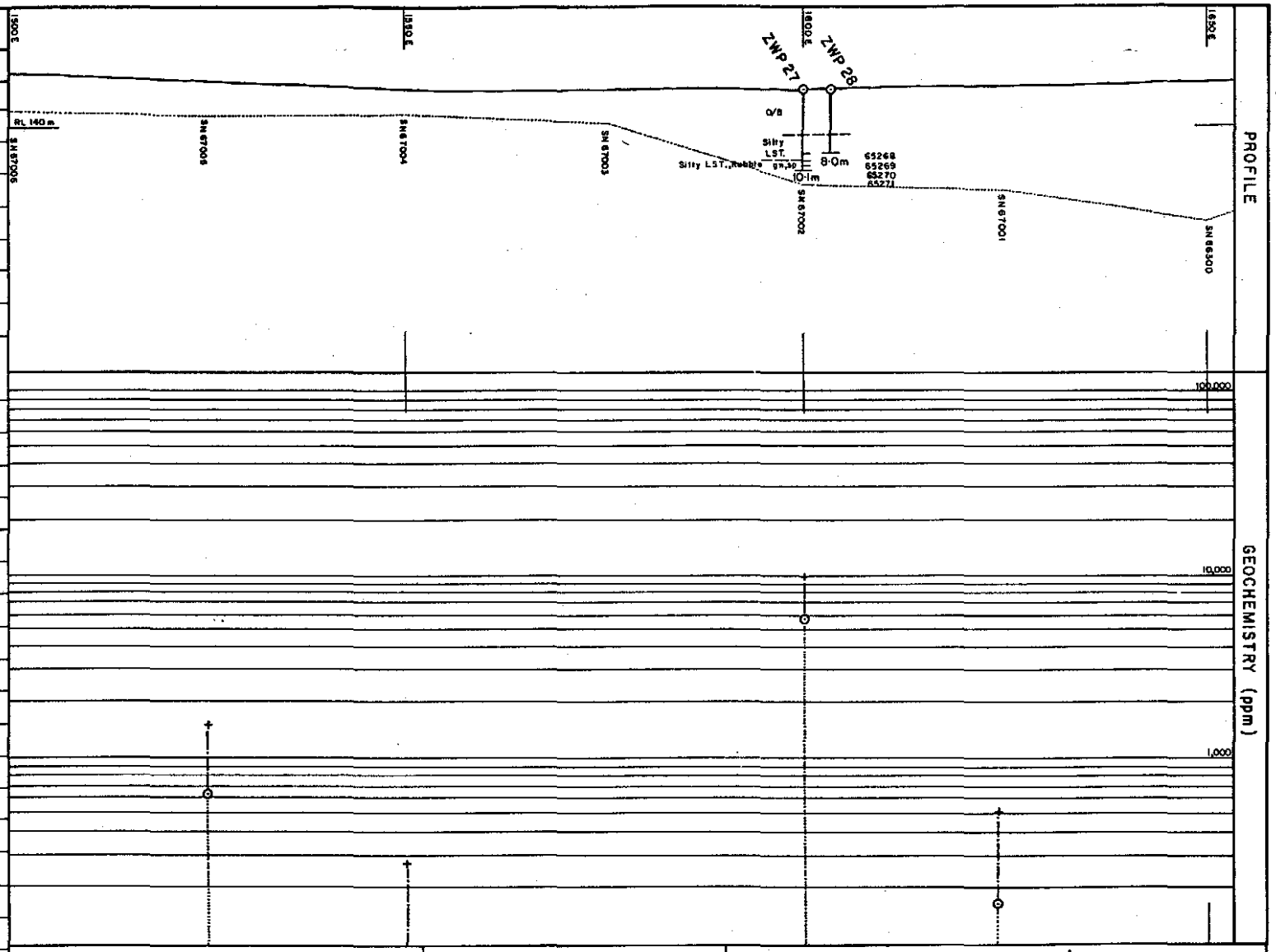
SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 22-1-86	REF. No.
DRAWN: R.J.R.	CHECKED:	A3-532-0145

110

032114

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
67006	25	100	0·26	105	X
67005	630	1695	0·50	495	35
67004	30	270	2·35	1095	150
67003	15	70	0·97	320	X
67002	5930	9995	2·00	1695	55
67001	170	505	1·87	660	90
66300	15	85	1·05	20	410
WINKIE (Sawn Core)					
ZWP 27					
65268	170	1250	1·01	670	–
65269	210	1300	1·56	1100	–
65270	4·99%	5·20%	1·76	1400	–
65271	1885	1·15%	1·71	1200	–



LEGEND

Pb. Wacker

Zn.

gn, sp = Lumps of coarse galena and sphalerite.

REFERENCES

Wacker Bedrock = AO-532-0121

" Geochem. Pb. = AO-532-0122

" " Zn. = AO-532-0123

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN | TAS.

PYRAMID GRID

LINE – 1100 N

SCALE: 1:500	SURVEY: I.MAT.	REVISED:
GRID: Z.M.G.	DATE: 26-2-'86	REF. No. A3-532-0152
DRAWN: R.J.R.	CHECKED:	

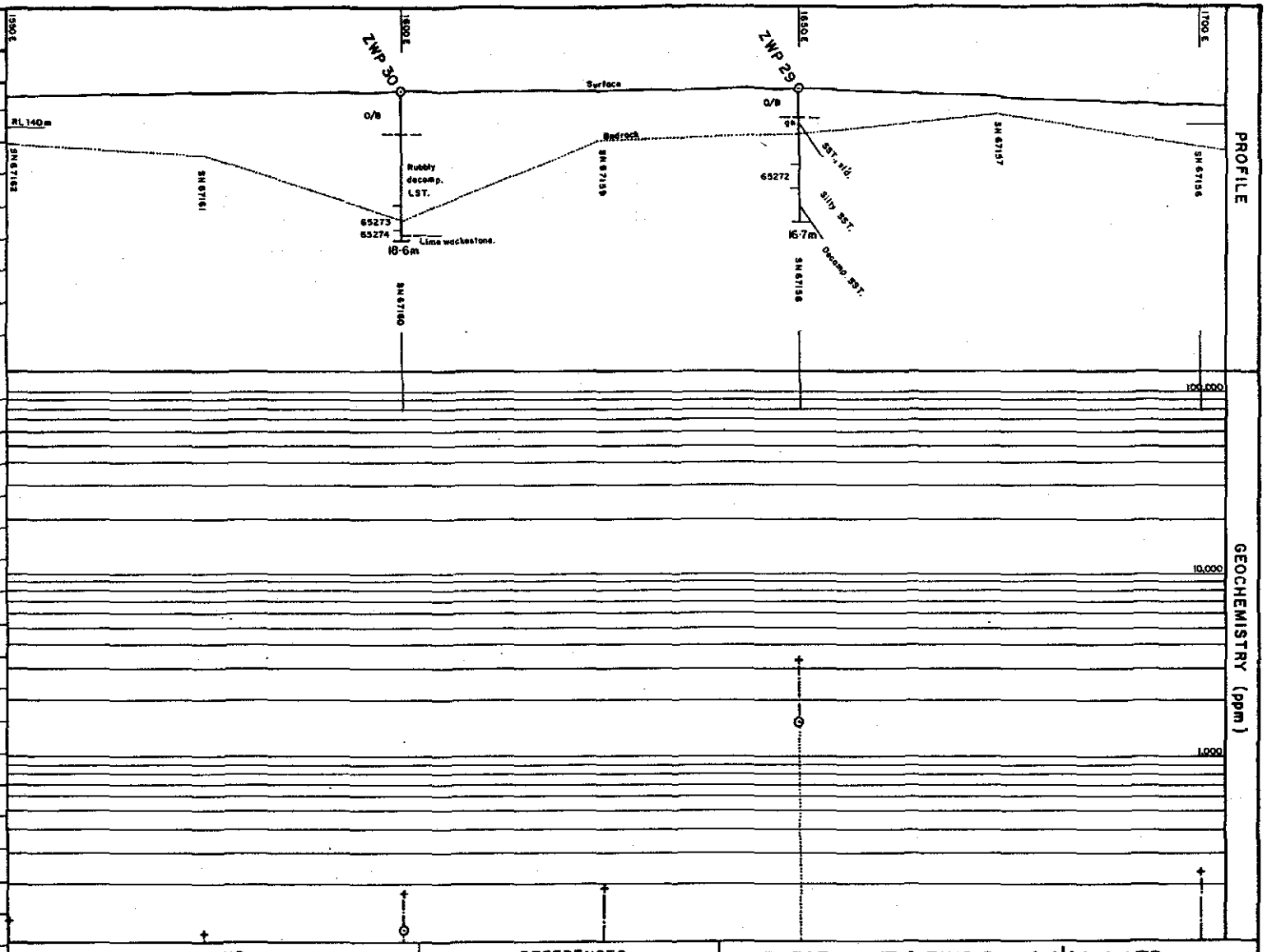
111

02 1760

C 112

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
67162	70	135	1·84	535	152
67161	35	110	0·60	210	41
67160	120	185	0·36	120	18
67159	90	190	0·92	10	727
67158	1690	3400	2·09	15	723
67157	50	100	2·89	55	801
67156	30	235	3·79	80	1000
WINKIE (Sawn Core)					
ZWP 29					
65272	125	770	1·31	45	—
ZWP 30					
65273	75	195	0·96	505	—
65274	35	110	1·61	710	—



LEGEND

Pb. Wacker

Zn.

gn = trace galena

REFERENCES

Wacker Bedrock = A0-532-0121

" Geochem. Pb. = A0-532-0122

" " Zn. = A0-532-0123

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN | TAS.

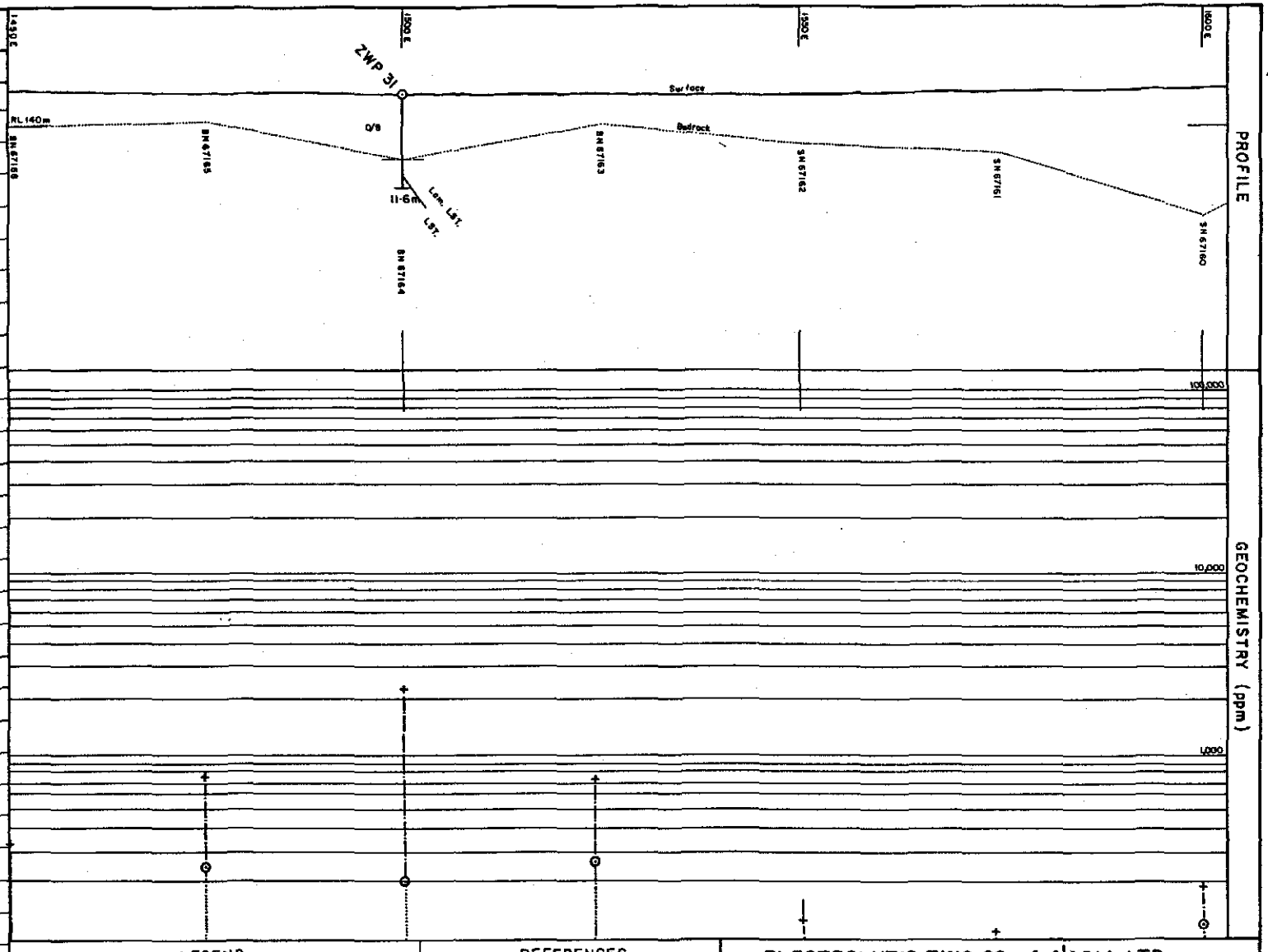
PYRAMID GRID PART II of II

LINE - 1000 N

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 26-2-'86	REF. No. A3-532-0151
DRAWN: R.J.R.	CHECKED:	

033113

GEOCHEMISTRY					
No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
67166	60	315	0·86	395	73
67165	250	760	1·09	340	119
67164	200	2250	1·39	305	148
67163	270	740	1·54	335	205
67162	70	135	1·84	535	152
67161	35	110	0·60	210	41
67160	120	185	0·36	120	18
WINKIE (Sawn Core)					



LEGEND

Pb. Wacker

Zn.

REFERENCES

Wacker Bedrock = AO-532-0121

" Geochem. Pb. = AO-532-0122

" " Zn. = AO-532-0123

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN | TAS.

PYRAMID GRID

PART I of II

LINE- 1000 N

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 26-2-'86	REF. No.
DRAWN: R.J.R.	CHECKED:	A3-532-0151

5 cm

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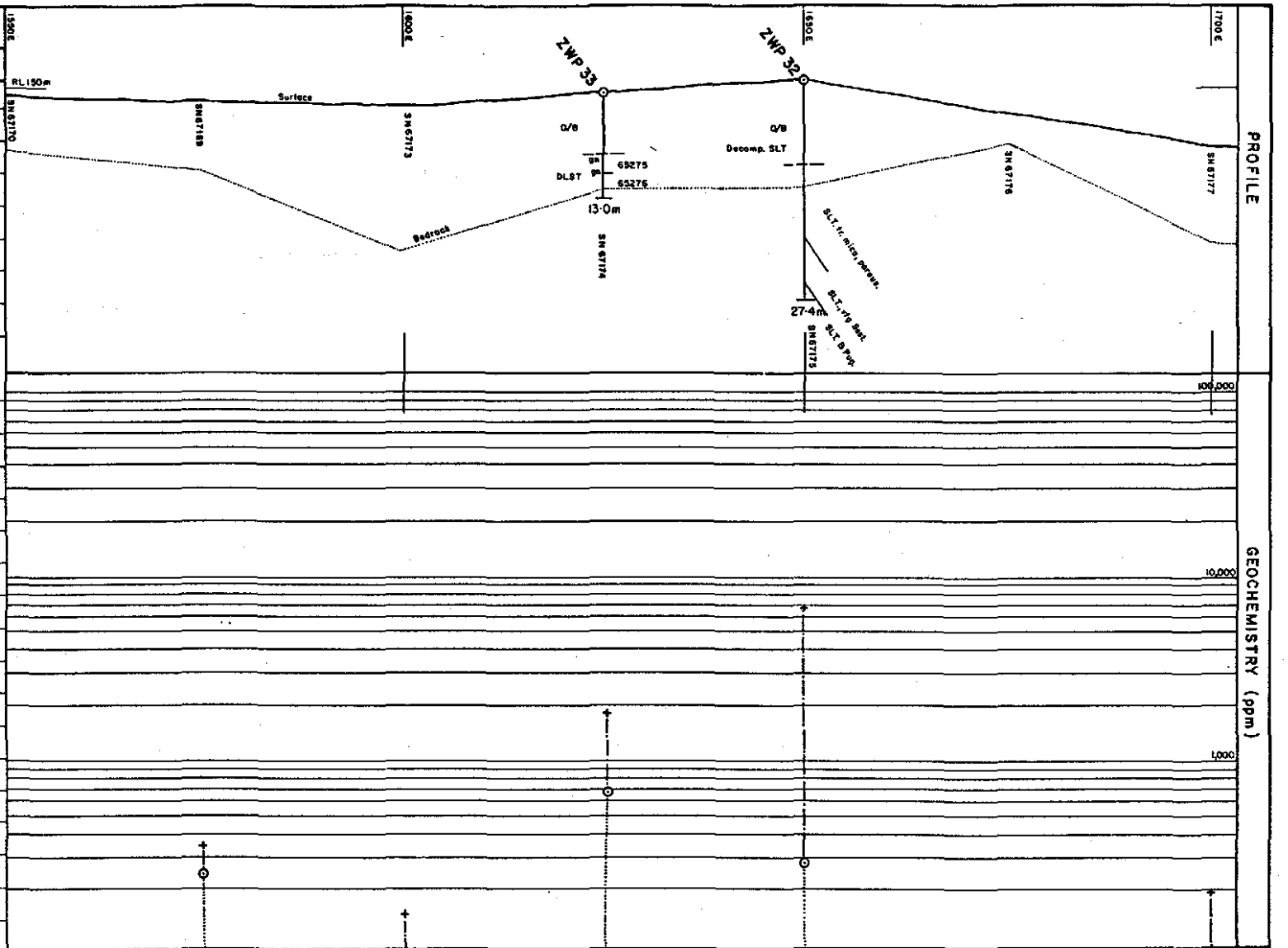
032114

GEOCHEMISTRY

No.	Pb	Zn	Fe%	Mn	Ba
WACKER (Bedrock)					
67170	25	50	0·78	205	82
67169	255	365	1·29	250	141
67173	70	165	2·09	945	254
67174	685	1850	1·49	1595	152
67175	290	6550	2·09	15	629
67176	55	45	0·32	5	689
67177	40	195	4·34	995	528
WINKIE (Sawn Core)					
ZWP 33					
65275	195	405	1·96	1500	—
65276	80	545	1·76	1350	—



LEGEND

Pb. — Wacker

Zn. — Wacker

gn = trace galena.

REFERENCES

Wacker Bedrock = AO-532-0121

" Geochem. Pb. = AO-532-0122

" " .Zn. = AO-532-0123

5 cm

ELECTROLYTIC ZINC CO. of A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN — TAS.

PYRAMID GRID

LINE – 1200N

SCALE: 1:500	SURVEY: I. MAT.	REVISED:
GRID: Z.M.G.	DATE: 26-2-'86	REF No. A3-532-0153
DRAWN: R. J. R.	CHECKED:	

032113

APPRENDIX 3.

UTEM Interpretation

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032117

AN INTERPRETATION OF UTEM DATA FROM THE MYRTLE, GRIEVES AND BAURA GRIDS, NEAR ZEEHAN, TASMANIA FOR ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LTD

HUGH RUTTER
CONSULTANT GEOPHYSICIST

AUGUST, 1985

I N D E X

1. INTRODUCTION

2. INTERPRETATION

2.1. Myrtle Grid

2.2. Grieves Grid

2.3. Baura Grid

3. CONCLUSION AND RECOMMENDATIONS

FIGURES

1. Myrtle Grid; UTEM Interpretation

2. Myrtle Grid; Depth to Solid Bedrock

3. Myrtle Grid; Residual Gravity

4. Myrtle Grid; Geology

5. Grieves Grid; UTEM Interpretation

6. Baura Grid; UTEM Interpretation

1. INTRODUCTION

The interpretation is directed towards the UTEM data and the ability of the UTEM system to detect moderate to low conductive mineralisation. The type of mineralisation is anticipated to range from massive or semi-massive pyrite/sphalerite/galena in a carbonate gangue to massive or semi-massive sphalerite/galena in a carbonate gangue.

Sphalerite is a resistive mineral (commonly about 100 ohm.metres) and cannot be expected to produce an EM response in its own right.

Galena may range in resistivity from 0.01 ohm.metres to 10 ohm.metres depending on the relationship of the crystal lattices, and therefore may also fail to produce a significant EM response.

Only the pyrite has a sufficiently high conductivity to produce an EM response when it occurs in concentration; disseminated pyrite will have a lower conductivity (higher resistivity) which may not be recognizable.

Therefore the recognition of a galena/sphalerite/pyrite mineralisation depends on either a considerable amount of pyrite, or sufficiently noise free EM data so that extremely subtle anomalies can be recognized.

The problem with the second option is that subtle anomalies caused by weakly conductive mineralisation are easily confused with those caused by shear zones, faults, and variations in conductivity within the oxidised layer or overburden.

In the case of the Tasmanian data the inclusion of the gravity data, accurate depth to bedrock (hence overburden thickness), and a good geological framework has helped to discriminate between the many anomalies.

2. INTERPRETATION

2.1. Myrtle Grid

At least 30 anomalous effects can be identified from the UTEM profiles. A number of these can be combined into groups and appear to result from the same conductive feature representing continuous geology; Figure 1 shows the distribution of anomalies.

As a supplement to the EM, the gravity data (Fig.3) depth to solid bedrock data (Fig.2) and geological data (Fig.4) were incorporated to assist with anomaly discrimination.

There are 4 lines of linked anomalies which are marked as formational on figure 1. The response is of the form commonly associated with a change in oxidation or overburden conditions, in either thickness or conductivity. This tends to be borne out when they are related to the depth to bedrock contours in figure 2. The eastern most two are also loosely related to a change in slope. The formational zone which passes through 60,500E, 50800N is coincident with the axis of an anticline. Consideration should be given to the relationship of this anomalous line, not only to changes in conductive overburden, but an alteration zone along the anticline axis and possible mineralisation. In all cases the anomalous response indicates very low conductivity and has died out in most cases by channel 3 and in some by channel 5.

There are two other 'green' anomalies, one on line 50400N and another on line 50800N; both have attributes of overburden and are not rated highly.

In the centre of the area, around the base line 60500E, there are 7 weak responses indicated on figure 1 as potentially mineralised (coloured red). There are three points in their favour, firstly, the anomalies themselves have the appearance of a bedrock conductor, rather than an overburden response; secondly, they are closely related to anomalous geochemistry; and thirdly, they are in close proximity to the Professor Fault.

The anomaly at 50,500N, 60,525E is the most interesting: depth to the ~~loop~~ top is between 25 and 50m; the body is near vertical; conductivity moderate, but not inconsistent with a galena/sphalerite mass; depth extent is indeterminable but possibly to a minimum of 100m.

The remaining 'red' anomalies, extending from 50400N to 50800N may all be related to the same feature. All appear shallow (ie between 25m and 50m), near vertical and weakly conductive. An accurate dip is not possible because of the weakness of the anomaly but combined with geological data, it would seem to be within 60°W to vertical.

The remaining group of anomalies are those coloured yellow. The one on line 50600N at 60660E requires field examination; it appears less than 25m in depth; moderately conductive; and possibly a steep westerly dip (!). The other four anomalies are all very weak and have been placed in this category for the following reasons: 1) they are not obviously caused by overburden variations; 2) they are not related to a known mineralising structural feature; 3) they do not have supportive evidence for being mineralised; 4) they are isolated responses.

In the Myrtle area the zone of primary interest is the one represented by the red coloured anomalies, extending from 50400N to 50800N, related to anomalous geochemistry and the Professor Fault.

2.2. Grieves Grid

A total of 16.2km of EM data was collected in this area. The conductive elements indicated by the survey are shown in figure 5.

There are numerous anomalies most of which are very weak; even on the earlier time channels, they are often difficult to recognize.

The interpretation of depth to the top, thickness, conductance, dip and depth extent all depend on the data having sufficient amplitude to allow the anomaly to be extracted from the background. With a high amplitude anomaly the errors that might arise from a poor estimate of background are comparitively small. But with a low amplitude anomaly the residual effect can be grossly misrepresentative if the background curves are in doubt.

Where possible, these geometric and electrical parameters are derived but if their is doubt as to the accuracy, they are omitted.

In figure 5 the anomalies have been related from line to line; this has been achieved using the characteristics of each anomaly, plus their relationship to geology. Many of the anomalous zones are extensive and may be caused by stratiform mineralisation or lithological changes. Brief comments are made on each zone; the numbers refer to those in figure 5.

1) Extends from 48400N to 47600N: this is the most obvious response in the whole survey. The cross-over is quite apparent, particularly on line 48200N, where is can be seen on the first four time channels. The zone follows the eastern sandstone/limestone contact and is displaced where it is crossed by the Grieves Fault. The depth to the top is less than 50m and the response may represent a change in the surficial weathered material; but on some lines there is a hint of a migrating cross-over indicating a westerly dip which suggests a source in bedrock. The anomaly can be followed quite clearly to line 47600N but it does not seem to be present on line 47500N. This particular line shows most of the EM zones displaced and is obviously close to a fault zone. The EM zone "1" may be faulted eastwards towards the end of the EM profile, or alternatively faulted westwards to become part of the adjacent EM zone.

1a) Extends from 47400N to 47100N. It is apparent on line 47300N and 47100N where dip and distance from the loop provide optimum coupling. Further south it is faulted further east beyond the range of the survey.

2) Extends from 48400N to 46500N. The anomalous zone is seen throughout the survey although its continuity is broken by faulting. It is a weakly conductive stratigraphic feature with a westerly dip of variable degree. The dip is biased not only by the extraction of the anomaly from the background but also by the angle at which the profile crosses the conductor; estimates range from 55^{o} to 85^{o}.

3) Occurs in isolation on line 47600N. It is very shallow, probably less than 30m; the conductivity is very low. The anomaly is probably caused by saline material in the fault zone.

4) Extends from 48400N - 48200N. The anomaly occurs on two adjacent lines and may be faulted out at the southern end. It is extremely weak and almost at the level of noise. Variations in the weathered layer may be the cause of this feature.

5) Extends from 47900N - 47600N. This may be the extension of EM zone 4. It is very weak and difficult to discern in some places. The strike extensions are curtailed by two faults.

6) Extends from 47100N - 46900N. It is fault bounded implying a conductor in bedrock which is fault controlable. But it is extremely shallow, ie 20 - 30m to the top and has very little depth extent; the conductivity is very low. Therefore it is more likely to be a superficial conductor.

7) A single response on both profiles along line 47100N. The conductivity is marginally higher than many of the other anomaly sources. But it remains a low amplitude response. The depth to the top is between 20m and 30m; depth extent and dip cannot be reliably obtained from the data. It may relate to the fault but there is also drilling information which indicates conductive mineralisation. Unfortunately the anomaly cannot be related to similar features on the adjacent lines.

8) Extends from 4800N to 4650N. On many lines this appears as a well formed anomaly. However, the time decay is rapid indicating a low conductivity. The depth to the top is between 75m and 100m; and there is a suggestion of a westerly dip. It appears more than likely that this is a lithological variation and not related to mineralisation.

9) Occurs on line 4710ON only. There is a strong initial response which decays rapidly. It can be seen on both profiles for this line and is interpreted as a superficial unmineralised source.

10) Extends from 4820ON to 4650ON. By its very strike extent this anomaly appears to be related to the Siltstone Member of the Gordon Limestone. Along its length it appears as a marked anomaly which is very apparent on the earlier time channel but rapidly decays. The form of the anomaly varies along its length but at no stage does it suggest mineralisation.

11) Extends from 4800N to 4790ON. The feature may be fault bounded along strike. The decay of the anomaly is recognizable in a greater number of channels indicating a higher conductivity. The depth to the top is estimated to be 75m. Dip interpretation is ambiguous and depth extent is not possible. This zone has characteristics of sulphide mineralisation within bedrock, and is recommended for ground inspection.

12) Extends from 4790ON to 4760ON. The zone is very evident in the earlier channels but decays rapidly. However, it does not have the characteristics of being purely superficial. The depth to the top is between 30m and 50m indicating a source in bedrock. This anomaly

may represent a weakly conductive sulphide occurence and requires field examination.

13) Extends from 47600N to 46700N. This could well be the extension of the previous zone as it has similar characteristics along its length. In particular the position of both zones between 47600N and 47500N is highly relevant because of the faulting and anomaly offsets. In most places the depth to the top is 30m to 50m and the conductivity is variable from weak to moderate along the length.

14) Occurs on line 47100N. The depth to the top is 50m, the conductivity is moderate; the dip appears vertical as there is no visible assymetry in the anomaly, nor does the cross-over show indications of migration. This is a good response in a good position and could represent mineralisation within bedrock.

In summary most of the EM conductors appear to be related to bedrock lithology or superficial material which in itself is related to the underlying geology. Where these zones are crossed by faults they may have an increased proportion of mineralisation, but the evidence for this in the EM data is not strong. The more favourable zones are coloured red in the interpretation plan.

2.3. Baura Grid

A total of 14.5km of data were collected at Baura using 3 transmitting loops. The same conditions of imterpretation apply here as those at Grieves and Myrtle. However, the conductivities of some of the conductors at Baura are greater than those seen in the previous two areas. Not all anomalies are repeated where the line is duplicated. This is caused by the different coupling conditions when the position of the transmitting loop is changed. The individual anomalies have been related from line to line and are discussed as EM zones.

1) Extends from 46200N to 45800N. On line 46200N it is shallow and not very conductive at all; but it improves in appearance further south, and where is is coincident with the outcrop of siltstone and conductivity is moderate. The outcrop of siltstone may provide answers as to the cause of the anomaly, and field examination is recommended.

2) Extends from 4600N to 46200N. This is a very prominent anomaly with quite an extended decay rate. The conductivity is moderate and caused by more than just saline material in the Firewood Siding Fault Zone. Depth to the top is between 40m and 60m, but the depth extent is indeterminable. The dip it almost vertical.

3) Extends from 46600N to 46200N. Moderate conductivity, rather higher than purely an overburden effect. Depth to the top is again approximately 50m.

4) Occurs on line 46000N. A single anomaly which appears to be an overburden response: it is coincident with a creek, but also along strike from zone 3. $\tau_w \rightarrow 950$ ppm

5) Occurs on line 45800N. A single anomaly which has a very shallow depth, low conductivity and the appearance of being caused by saline material in the fault.

6) Extending from 46200N to 45800N. These anomalies are related because of their similarity; but all have the characteristics of superficial, overburden responses and may be quite unrelated in the field.

7) Extending from 45800N to 45600N. Two anomalies, both of which have the characteristics of an overburden response .

8) Extending from line 4600N to 45600N. The two anomalies on lines 4600N and 45800N have characteristics of an overburden response, but they may be masking something of more significance further down. On line 45600N this zone has split into two distinct anomalies, both of which indicate a higher conductivity than that normaly associated with an overburden. Depth to the top is between 30m and 50m; the dip appears to be vertical but the strength of this estimate is low.

9) Extending form line 46400N to 46200N. This is a good quality conductor. Depth to the top is 60m to 80m; the dip is to the west and the conductivity is about 20 seimens.

10) Extending from line 45800N to 45600N. This is an apparent southerly extension of the previous EM zone 9. The characteristics are similar.

11) Occuring on line 46400N. A moderate but isolated conductor which is identified on data from two loops. The anomaly may be enhanced by its position on the ridge.

12) Extends from 45800N to 45600N. Both anomalies are weak and have the characteristics of being superficial conductors.

13) Extending from 46400N to 4600N. All three anomalies have rapid decays and anomaly shapes that indicate a shallow superficial source. It is noted that all three have a close proximity to a creek.

14) Extending from 46400N to 46000N. This zone may be limited by faulting. The most southern and most northern anomalies are weak and not particularly indicative of mineralisation. But the central anomaly on line 46200N has a better form. Depth to the top is 50 - 60m conductivity is approximately 5 seimens and there is a suggestion of a westerly dip.

15) Extending from 45800N to 45600N. Close proximity to a sandstone ridge. It is a very shallow response with a low conductivity: it appears to have a formational source.

16) Extending from 4600N to 45600N. The zone may be faulted as indicated, or just folded. The source is shallow and weakly conductive. A formational cause is proposed.

17) Extending from 4600N to 45600N. This zone has similar characteristics to zone 16 and does not suggest mineralisation.

A number of anomalous zones have been selected as having a potential mineralised source: these are coloured red in the interpretational plan.

3. CONCLUSION

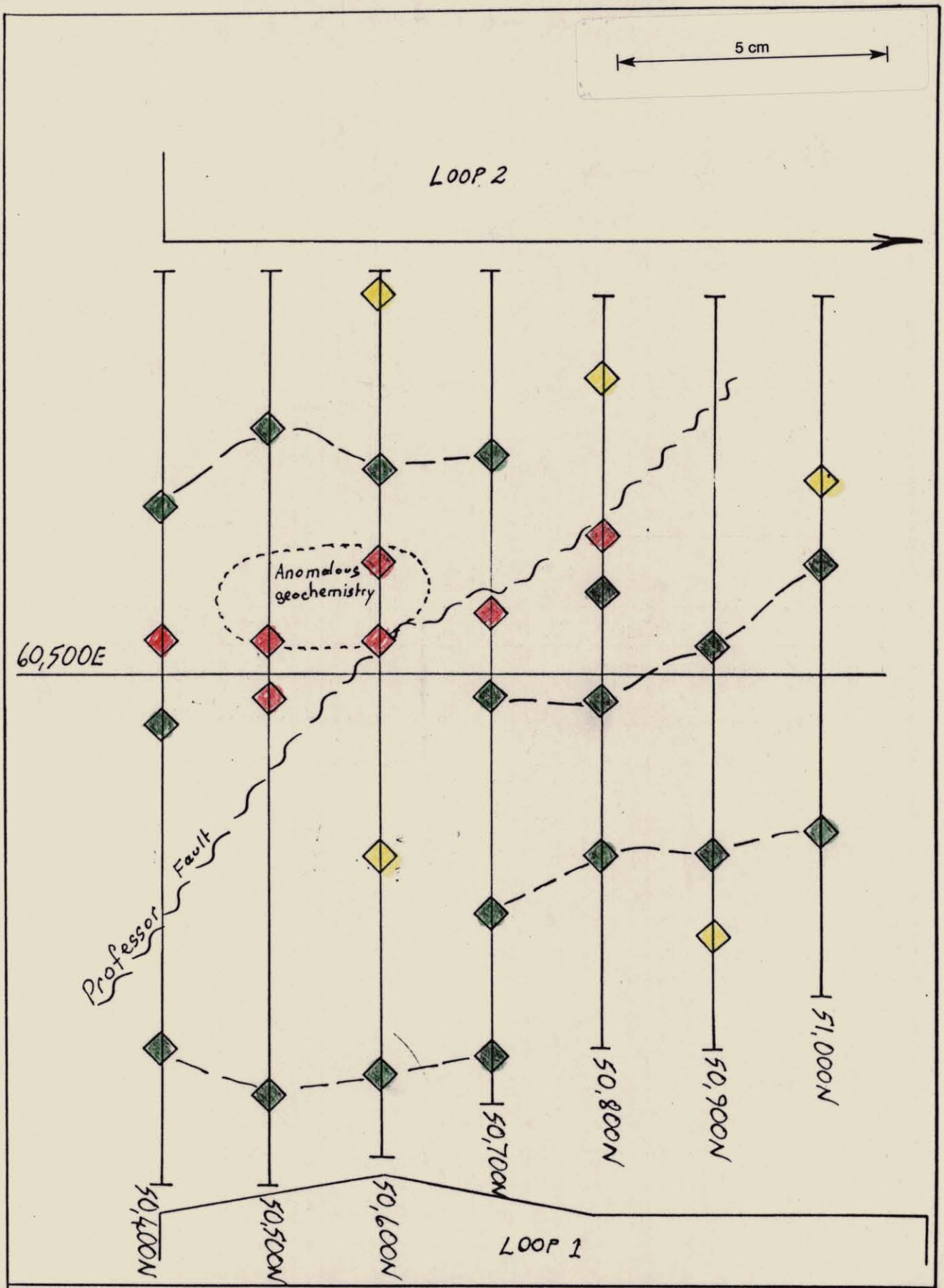
None of the anomalies located by the 3 surveys have the characteristics of the UTEM anomalies over Que River or Hellyer; however, this is only a simple yardstick and cannot in itself be used to downgrade the anomalies. A change in mineralogy with a low pyrite or pyrrhotite content would produce such a relative EM changes.

All the anomalies have been interpreted knowing that mineralisation in this area may have a very low conductivity. Priorities have been given which, at one end indicate anomalies that are more likely to be caused by mineralisation, and at the other end, those that have predominant overburden characteristics. The doubtful ones lie in the middle.

It is recommended that geological and geochemical data is added to this interpretation to aid the selection of drill sites. If no further information is available, then exploratory drilling is recommended on those zones coloured red, so as to determine the source.

Hugh Rutter

HUGH RUTTER
Consultant Geophysicist



ELECTROLYTIC ZINC CO. OF A'ASIA LTD

EM RESPONSE - FORMATIONAL

EM RESPONSE - POTENTIALLY MINERALISED

EM RESPONSE - SOURCE UNKNOWN

MYRTLE GRID

FIG. 1.

UTEM INTERPRETATION

SCALE 1:5000

Aug '85

Hugh Rutter GEOPH. EXPL. CONS. P.L.

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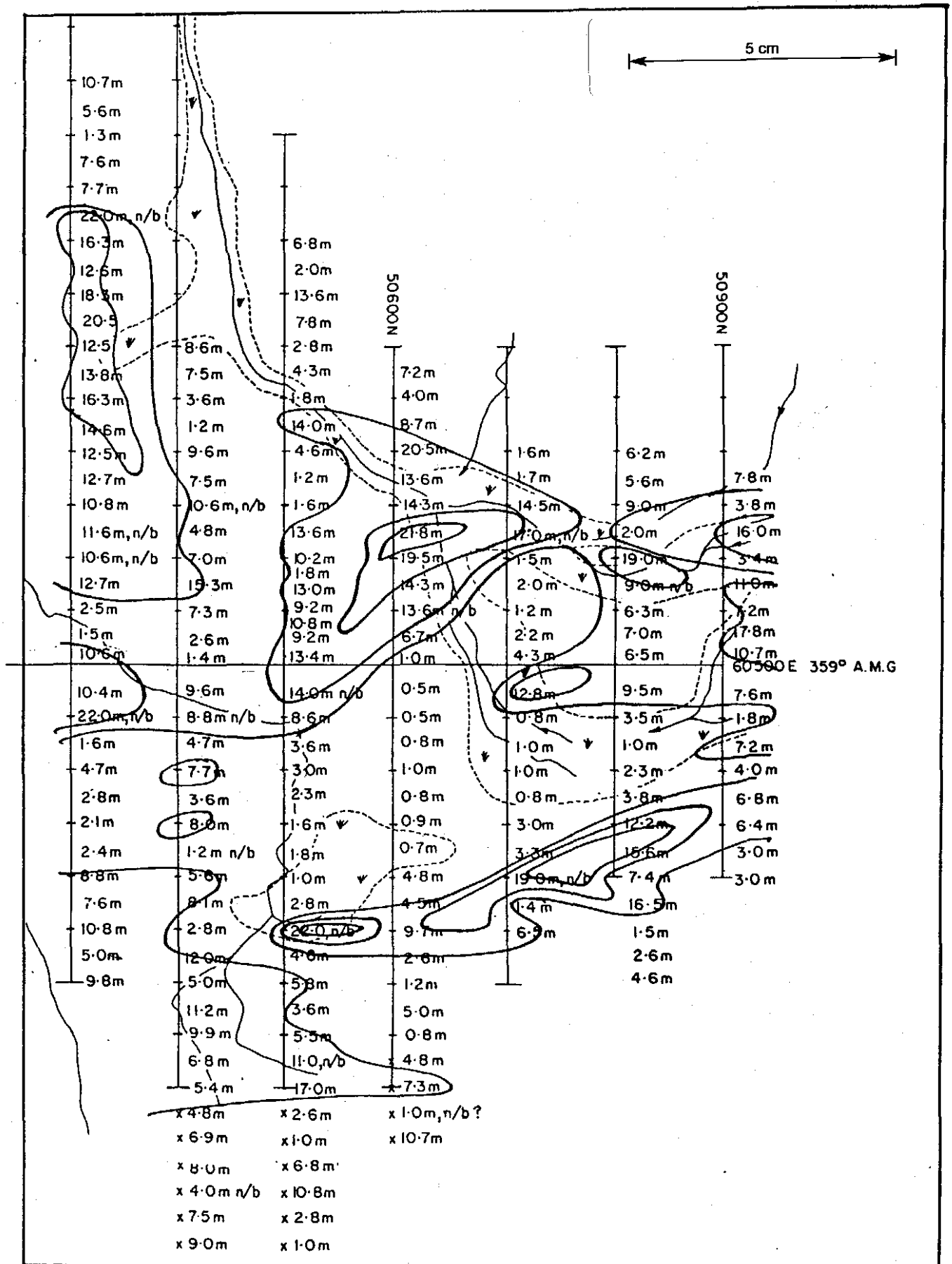


ELECTROLYTIC ZINC CO. OF A'ASIA LTD

5m Contour interval.

MYRTLE GRID

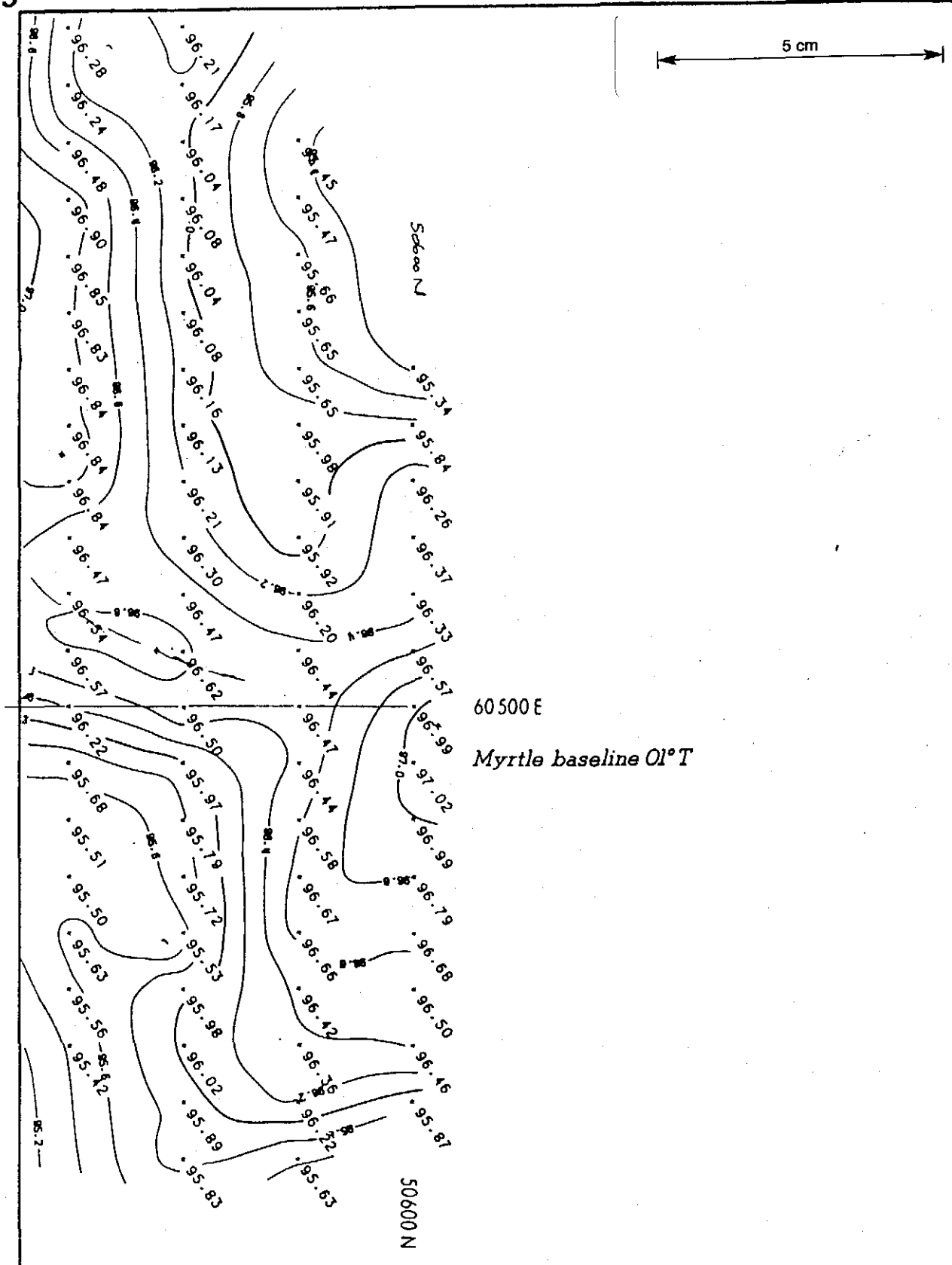
FIG 2

DEPTH TO SOLID BEDROCK

SCALE 1:5,000

Aug '85

Hugh Rutter Geoph Expl Cons. PL



ELECTROLYTIC ZINC CO. OF A'SIA LTD

Contour interval 0·2 mgls.

MYRTLE GRID

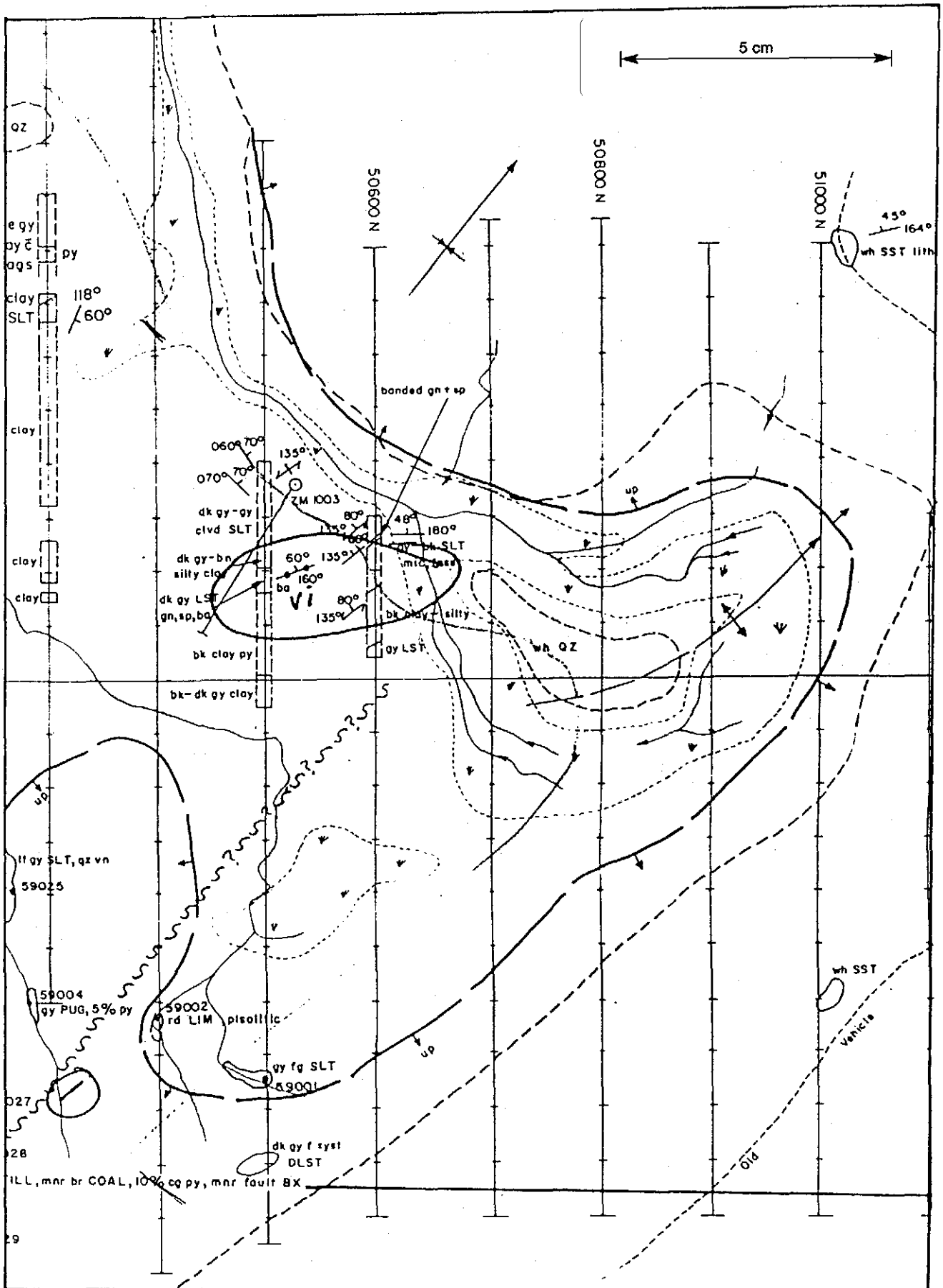
RESIDUAL GRAVITY

1:5000

FIG 3

Aug '85

Hugh Rutter GEOPH EXPL CONS PL



ELECTROLYTIC ZINC CO. OF A'ASIA LTD

MYRTLE GRID

GEOLOGY

1:5000

FIG 4

Aug '85

Hugh Rutter GEOPH. EXPL CONS PL

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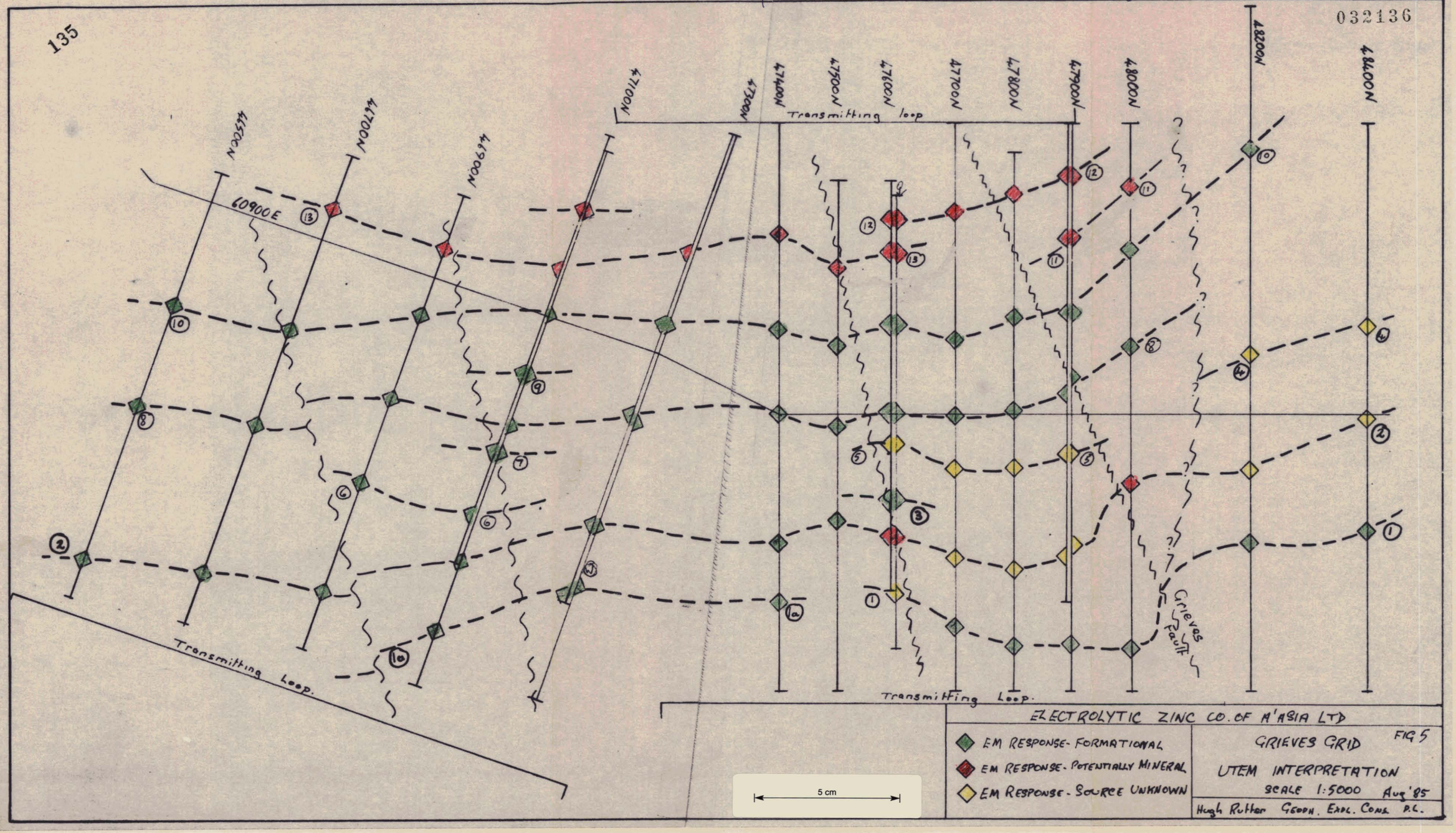


ELECTROLYTIC ZINC CO. OF M'ASIA LTD

EM RESPONSE - FORMATIONAL

EM RESPONSE - POTENTIALLY MINERAL

EM RESPONSE - SOURCE UNKNOWN

GRIEVES GRID

FIG 5

UTEM INTERPRETATION

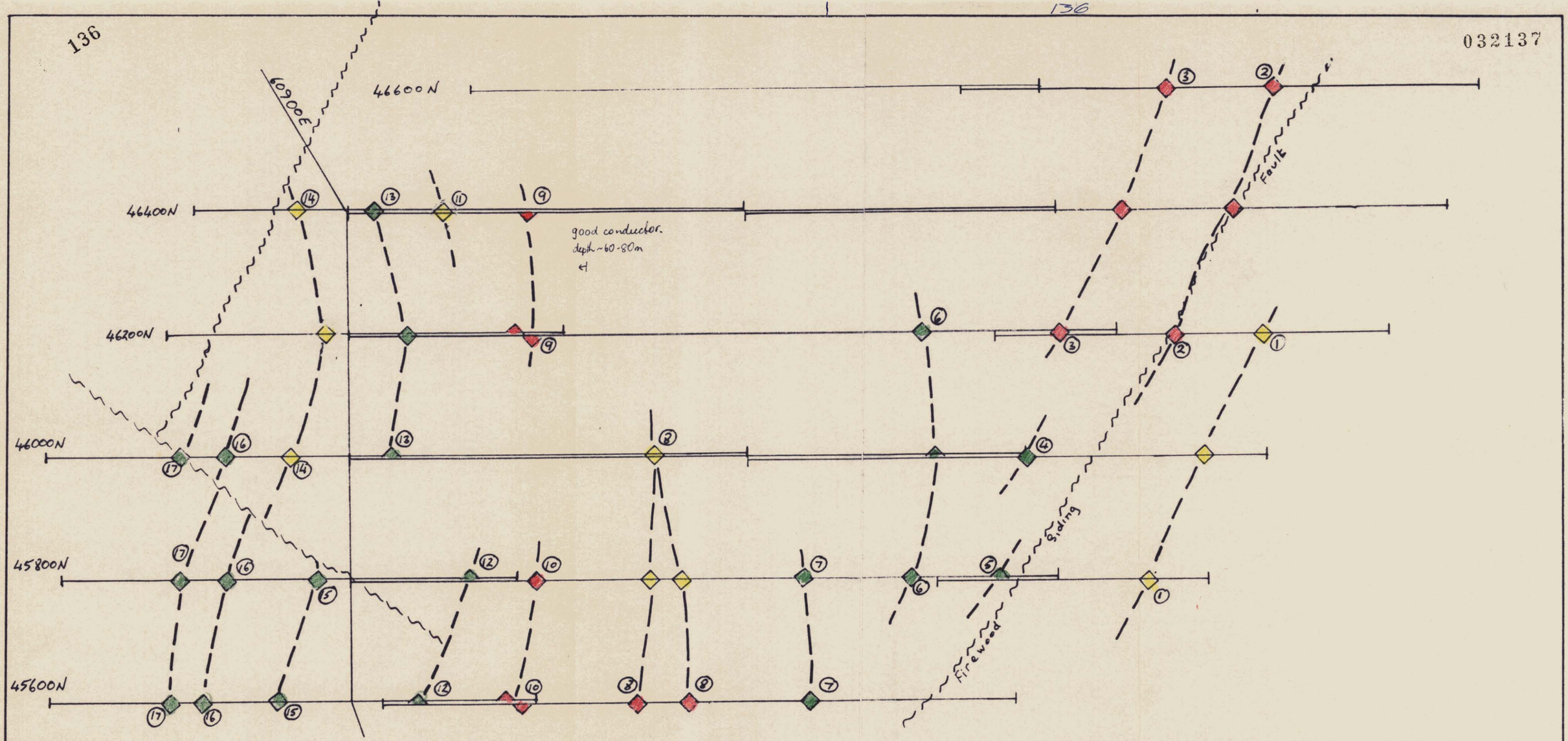
SCALE 1:5000 Aug '85

Hugh Rutter Geoph. Expl. Cons. P.L.

136

136

032137



ELECTROLYTIC ZINC CO. OF A'ASIA LTD

EM RESPONSE - FORMATIONAL
EM RESPONSE - POTENTIALLY MINERAL.
EM RESPONSE - SOURCE UNKNOWN

BAURA GRID FIG 6

UTEM INTERPRETATION

SCALE 1:5000 Aug '85

Hugh Rutter. GEOPH. EXPL. CONS. P.L.

APPENDIX 4.

Diamond Drill Holes

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZB 1004

LOCATION E.L. 4/78 ZEEHAN – Baura Grid
OBJECTIVE To test a UTEM anomaly and anomalous geochemistry along the Firewood Siding Fault
RESULT Hole abandoned at 59.0m. See ZB 1005

TOTAL DEPTH 59m
HOLE SIZE OH –50m HQ –3; –59
COMMENCED 15.10.85
COMPLETED 18.10.85
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 60°
DIRECTION (16-19) 235° AMG
R.L. (20-23)
CO-ORDS. 46,405N 62,292E
LOCATION Baura Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
0	50.0	Non core drilling	
50.0	52.0	OOLITIC LIMESTONE, silicified and dolomitised, very poor recovery of rubbly core, includes lumps of dk grey fine grained dolomitic limestone – ?from up hole cave in	
52.0	58.5	OOLITIC LIMESTONE, pale grey, dolomitised and incipiently leached. Clasts in well sorted grainstone include 1mm oolites, coated bioclasts, coated intraclasts	Occasional grain of pyrite on fractures
58.5	59.0	LIMESTONE, rubbly, decomposed	Some pyrite cement of rubbly limestone
		Casing lost in hole.	
		Hole abandoned See ZB 1005	

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	%
0	
50.0	NR
52.0	5
52.6	100
54.0	100
55.1	75
57.0	45
57.5	20
59.0	40

A 11241

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZB 1005

LOCATION E.L. 4/78 – ZEEHAN Baura Grid

OBJECTIVE To test a UTEM anomaly and anomalous geochemistry along the Firewood Siding Fault

RESULT No mineralisation intersected. UTEM anomaly attributed to deeply weathering of siltstone unit.

TOTAL DEPTH 96m
HOLE SIZE OH -28, HQ -30, OH -46.5, HQ -3, -96
COMMENCED 19.10.85
COMPLETED 24.10.85
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 59½°
DIRECTION (16-19) 223°AMG
R.L. (20-23)
CO-ORDS. 46,406N 62,293E
LOCATION E.L. 4/78 – Baura

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn	Ba	CORE REC'D RUN	%
0	28.0	Non core drilling														–	
																28.0	NR
28.0	30.0	DOLOMITE, dark grey, rubbly and part decomposed, solid rock siliceous with irregular dolomite veins.	Puggy patches pyritic	66777	28.0	30.0			15	285	510		7.66	1370	45	30.0	70
																46.5	NR
																48.6	90
																49.3	90
30.0	46.5	Non core dilling														51.0	90
																51.6	30
46.5	56.4	OOLITIC LIMESTONE, pale grey and grey, dolomitised, weakly silicified and partially decomposed. 30cm cream marl at 52.8m	Common flecks pyrite on fracture surfaces	778	46.5	48.6			5	90	205		1.56	430	<10	52.0	100
				779	48.6	51.6			5	185	345		0.88	250	<10	52.8	60
				66780	51.6	52.0			5	140	290		0.76	235	<10	54.4	90
				81	52.0	54.4			5	240	270		0.89	310	<10	56.8	90
56.4	58.0	OOLITIC LIMESTONE, as above but increasingly decomposed														58.9	50
				82	54.4	57.9			5	165	190		1.36	300	<10	59.0	70
																59.6	40
58.0	60.6	PUG, dark grey, with rubbly fragments of dark grey, leached, silty LIMESTONE		83	57.9	60.6			15	120	620		7.71	2920	110	60.6	60
																61.8	80
																63.0	50
60.6	64.0	LIMESTONE, more or less decomposed. 10cm cherty MARL at 60.7; 20cm DOLOMITE BRECCIA at 62.0; c.b.a. 70°		84	60.6	61.8			20	210	435		17.46	7170	120	63.6	60
				85	61.8	63.0			20	175	520		8.06	3045	100	66.6	70
				86	63.0	63.6			15	55	245		30.96	1.39%	160	69.6	80
																72.6	30
64.0	66.6	PUG with two thin beds of leached silty LIMESTONE - vughs ~5mm		87	63.6	66.3			15	55	120		13.96	4895	80	74.0	80
																75.5	100
																77.0	90
66.6	68.6	MARL, pale grey, decomposed, with crumbly calcite veins, c.b.a. 70°		88	66.3	67.8			10	40	30		5.36	1870	30	78.5	90
				89	67.8	69.6			10	30	20		3.66	1170	<10	80.0	90
																83.0	90
68.6	72.6	NODULAR SILTY LIMESTONE, decomposed, indicates little or no volume change during deomposition		90	69.6	72.6			15	45	40		7.86	2145	100	84.2	60
																85.4	80
																87.5	90
72.6	73.8	PUG, dark grey, calcareous		91	72.6	73.8			15	60	105		9.16	2120	150	89.0	100
																90.5	90
73.8	82.8	CLAY, grey, some bands of calcareous SILTSTONE		92	73.8	77.0			15	35	45		25.46	7395	160	91.6	90
				93	77.0	78.5			20	50	60		20.96	7070	220	92.0	90
				94	78.5	80.6			25	35	60		16.96	4570	230	93.4	100
82.8	85.4	CLAY, SANDY CLAY and DECOMPOSED SANDSTONE, grey		95	80.6	81.6			15	80	95		1.06	155	140	95.6	80
				96	81.6	84.2			20	35	125		6.31	1245	250	96.0	100

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ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZB 1005 P2

A 21740

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn	Ba	CORE REC'D: RUN	SHORT
84.4	86.8	CLAY and DECOMPOSED SILTSTONE, grey	~2% coarse pyrite														
				97	84.2	87.5			30	30	195		4.11	380	240		
86.8	90.0	SILTSTONE, grey, thin bedded with some 1cm beds very fine grained SANDSTONE. Bedding planes carbonaceous with traces mica c.b.a. 50°		98	87.5	89.5			25	40	405		7.21	1645	230		
90.0	91.2	GRIT, SANDSTONE, CONGLOMERATE and SILTSTONE dark grey, c.b.a. 55° Coarser beds include fragments of underlying quartzite.		99	89.5	91.4			55	45	355		5.11	1145	230		
91.2	93.0	QUARTZITE, pale grey, broken		66800	91.4	93.9			30	35	95		3.61	70	40		
93.0	93.9	CONGLOMERATE, grey, pebbles and grains of siliceous quartzite similar to above and below. Therefore not typical of a Moina Sandstone conglomerate	Last 20cm cemented by pyrite														
93.9	96.0	QUARTZITE, pale grey, fine grained															

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZB 1006

LOCATION E.L. 4/78 – ZEEHAN – Baura Grid

OBJECTIVE To test coincident geochemical and UTEM anomalies in and below the Siltstone member of the Gordon Limestone

RESULT No mineralization intersected; UTEM anomaly probably due to lithological contrasts.

TOTAL DEPTH 203m
HOLE SIZE OH –7; HQ–3–107; NQ –
COMMENCED 28.10.85
COMPLETED 2.11.85
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.
62	192 AMG	61			
106	195	62			
151	199	62.5			
202	204	63			

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 59½°
DIRECTION (16-19) 189½° AMG
R.L. (20-23)
CO-ORDS. 46,420N 60,997E
LOCATION Baura Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION
0	7.0	Non core drilling	
		SILTSTONE MEMBER? – 79.5m	
7.0	10.0	SILTY LIMESTONE, wispy dark grey with 10cm nodules of grey LIMESTONE. Most fossils in nodules. Minor leaching	Minor pyrite as disseminated blebs
10.0	12.8	SILTY LIMESTONE, dark grey, thin bedded with minor grey LIMESTONE as nodules and beds. c.b.a. 75°	
12.8	18.8	PATCHY LIMESTONE, grey fine-medium grained bioclastic separated into rounded lumps by bands, wisps and patches of dark grey, muddy, calcareous DOLOMITE. Minor leaching	Minor solution breccia at 15.8 rehealed by white calcite Occasional calcite vein
18.8	23.2	LAMINATED SILTSTONE, calcareous, pale grey with some dark grey laminae. Laminations disrupted by soft sediment deformation in places	
23.2	25.6	SILTY LIMESTONE, grey bands and lumps of very fine grained LIMESTONE in dark grey SILTY LIMESTONE	
25.6	30.0	FOSSILIFEROUS SILTY LIMESTONE, dark grey fine grained with common shells and bryozoa. Core more broken	
30.0	33.6	SILTY LIMESTONE, dark grey, partially decomposed broken core. Scattered shell fragments and corals; occasional shelly band.	
33.6	34.2	LIMESTONE, rounded lumps of colonial corals and fine grained grey LST and a fossiliferous band in dark grey dolomitic LST	

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 %
											0–7	NR
											10.2	95
											11.2	100
											12.0	"
											13.5	"
											15.0	90
											16.5	100
											18.0	35
											19.5	100
											21.0	"
											22.5	95
											24.0	100
											25.5	"
											27.0	"
											28.5	"
											29.4	90
											31.0	100
											34.0	95
											35.8	"
											37.4	100
											38.6	"
											39.0	"
											40.5	"
											42.0	"
											43.5	"
											45.0	95
											46.5	95
											48.0	90
											49.5	95
											50.9	100
											52.4	"
											53.8	85
											54.8	100
											57.0	"
											58.5	85
											61.4	
											63.0	100

A 11241

032142

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZB 1006 P2

A 21740

DEPTH FROM	DEPTH 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
34.2	39.0	PATCHY LIMESTONE, grey bioclastic and pisolitic lumps and bands with stringers, bands and patches of dark grey, muddy dolomitic LST, some dolomitization follows stylolites. Leaching towards end													64.5	100
															66.0	"
															67.5	"
															70.5	"
															73.5	"
															75.0	"
39.0	41.5	LIMESTONE BRECCIA, altered partially decomposed and rehealed by siderite and calcite													76.5	"
															78.0	95
															79.5	100
															81.0	"
41.5	48.2	BIOCLASTIC LIMESTONE, *medium grained* with occasional Tetradium, colonial corals, gastropods and burrows; stylolitic	Moderately intense calcite veining. Many calcite veins pre stylolites												82.5	"
															84.0	"
															85.5	"
															87.0	"
48.2	59.3	POSSIBLE FAULT ZONE BIOCLASTIC LIMESTONE as above with some stromatolites. Core broken, leached, bleached and partially decomposed; stylolitic	Rehealing by irregular calcite veins and patches												88.5	"
															91.5	"
															93.0	85
															94.5	100
															96.0	95
59.3	60.1	LIME GRAINSTONE, coarse with coated grains 2-5mm and some larger coral fragments.													97.5	100
															100.5	"
															103.5	"
60.1	63.0	LIMESTONE, leached, bleached and partially decomposed with caroonaceous fractures	Minor rehealing by white calcite												105.0	"
															106.5	"
															107.0	"
63.0	66.2	BIOCLASTIC LIMESTONE, with some Tetradium, stylolitic. Most stylolites and late *veining perpendicular* to core	Moderate *pre and post* stylolite calcite veining												110.0	"
															113.0	"
															114.8	"
															117.8	"
66.2	68.2	SILTY LIMESTONE with interbedded BIOCLASTIC LIMESTONE, c.b.a. 80°	Moderate calcite veining												120.8	"
															123.0	"
															125.0	"
68.2	70.2	ONCOLITIC LIMESTONE, *pale grey concentric* algal balls 1-2cm in dark grey fine grained muddy dolomitic LST. Most oncolites have irregular boundaries from partial dolomitization													126.3	"
															128.0	75
															129.8	100
															131.0	"
															134.0	"
															137.0	"
70.2	73.5	SILTY LIMESTONE, pale grey, irregularly stylolitic with dark grey muddy dolomitic LST along stylolites. Minor leaching and partial decomposition along some stylolites.													140.0	"
															143.0	"
															146.0	"
															149.0	"
															152.0	"
															155.0	"

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZB 1006 P3

A 21740

DEPTH FROM	DEPTH 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
73.5	79.5	LAMINATED SILTY LIMESTONE and SILTY LIMESTONE, pale grey c.b.a. 75°. Occasional stylolites parallel to bedding. LOWER GORDON LIMESTONE 79.5-													158.0 161.0 164.0 167.0 170.0 173.0	100 " " " " "
79.5	84.0	BIOCLASTIC LIMESTONE, grey, fine grained with occasional thin, dark grey, muddy bands along stylolites	Moderate irregular calcite veining throughout. Shearing at 82.0 rehealed by calcite												175.0 178.0 181.0 184.0 185.0 188.0	95 100 " " " "
84.0	84.8	BURROWED and NODULAR LIMESTONE, horizontal burrows, closely spaced stylolites													191.0 194.0 197.0 200.0 203.0	" " " " "
84.8	93.0	BIOCLASTIC LIMESTONE, grey, minor bands of dark grey muddy dolomitic LST and some nodular LST. Thin bed with small gastropods at 90.0	Moderate to intense irregular calcite veining													
93.0	96.2	CORALLINE LIMESTONE. Drak grey dolomitic LST with masses of colonial corals and stromatolites	Trace-minor fine pyrite euhedra in white infilling of some branching corals. Moderate-intense calcite veining & patches of solution breccia													
96.2	103.5	BIOCLASTIC LIMESTONE, grey with occasional dark grey, muddy bands and patches and some nodular with fine network of stylolites. Occasional corals.	Minor irregular calcite veining Trace pyrite in corals as above													
103.5	111.8	NODULAR LIMESTONE, nodules grey bioclastic LST 1cm in dark grey, muddy, dolomitic LST bioclasts in both matrix and nodules	Several 1cm calcite veins													
111.8	113.2	FOSSILIFEROUS LIMESTONE, as above but less dolomitized. Corals and stromatolites towards end														
113.2	120.5	SILTY LIMESTONE, grey with thin shelly bands crowded with brachiopods and gastropods and shell fragments	Minor pyrite at 114.2, 116.7 & 118.8 on fractures or in muddy LST. 30cm carbonaceous shear rehealed by calcite at 114.5													

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZG 1006 P4

A 21740

DEPTH FROM	DEPTH 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	SHOR
120.5	131.5	LIMESTONE, interbedded nodular, intraclastic and bioclastic grainstone dark grey muddy dolomitic LST, bioclastic mudstone with brachiopods and thin beds with colonial corals	Occasional thin calcite vein													
131.5	134.2	FAULT ZONE, carbonaceous shears 45° to core and fragments of grey silty limestone in white calcite with black stylolites Minor leaching and decomposition														
134.2	138.4	BANDED LIMESTONE with thin beds of coarse intraclastic grainstone, nodular LST, and dark grey muddy LST	Moderately intense irregular calcite veinlets decreasing													
138.4	146.0	LIMESTONE, very fine grained, monotonous, with minor nodular and dark grey muddy bands and patches along stylolites	Irregular calcite veinlets coarse vughy calcite vein at 141													
146.0	151.5	LIMESTONE, roughly banded with ~20cm grey and 1-10cm dark grey. Fine bioclasts in muddy dark grey beds. Thin beds of pisolitic LST.	Several irregular calcite veins and tension gashes													
151.5	154.0	LIMESTONE, grey, fine grained, irregularly dolomitized along stylolites. Grades down hole into nodular LST														
154.0	158.5	NODULAR LIMESTONE, finely clastic	Several irregular calcite veins													
158.5	163.7	LIMESTONE, grey medium clastic with irregular patches and bands of dark grey, muddy calcareous dolomite, some dolomitization concentrated around stylolites	Irregular cross cutting calcite veins common towards end													
163.7	174.2	SILTY LIMESTONE and BIOCLASTIC LIMESTONE thin beds crowded with 0.5-2.0cm shell fragments, thin muddy dolomitic LST and thin grainstone beds in SILTY LST. c.b.a. 75° Sheared with cleavage 60° to core but opposite sense to bedding	Minor pyrite with thin bed pyrite at 167.5. 20cm shear at start rehealed by white calcite. Moderate irregular calcite veins and tension gashes. Pink carbonate in calcite vein at 167.8													

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

DIAMOND DRILL CORE RECORD

HOLE No. ZR 1006 P5

A 21740

DEPTH FROM	DEPTH 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	SHOR
174.2	175.7	BRECCIATED LIMESTONE, *rehealed by white calcite, leached,* bleached and partially decomposed in places.															
175.7	186.2	LIMESTONE, interbedded fine grained, nodular, *bands with* gastrodpod and brachi-*opod* fossils, and bands of dark grey muddy dolomitic LST. Minor leaching and shearing near broken patches	Moderate to intense calcite veining. Patches broken and rehealed by white calcite. *Several calcite veins include* pink carbonate														
186.2	194.0	LIMESTONE, as above but less veining and fracturing	Irregular calcite veining, some sub parallel *to core*														
194.0	203.0	LIMESTONE, *interbedded, includes* banded LST, *nodular* LST, coralline LST, silty LST and intraclastic grainstone	Intense calcite veining throughout. Small patches *pink carbonate at* 194.3, 196.4, 197.5. Trace purple fluorite at 199.0														

032146

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (3-7) ZG 1007

LOCATION E.L. 4/78 - ZEEHAN - Grieves Grid

OBJECTIVE To test geochemical anomalies, UTEM anomalies and surface mineralization in the UPPER GORDON LIMESTONE

RESULT No lead-zinc mineralization intersected. UTEM responses probably due to fracture infilling pyrite in dolomite

TOTAL DEPTH 272m
HOLE SIZE OH - 66; HQ-3-121.5
COMMENCED NQ 7.11.85
COMPLETED 24.11.85
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.
85.5	143AMG	74½	270	151	73½
135	142	75½			
176	142	75			
224	144	75½			

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 69½°
DIRECTION (16-19) 147 AMG
R.L. (20-23)
CO-ORDS. 47,603N 60,460E
LOCATION Grieves Grid

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn		CORE REC'D RUN	CORE REC'D %
0	81.6	CROTTY SANDSTONE					%										%
0	66	Non core drilling														0-66.3	NR
																67.8	100
66.0	73.3	SILTY SANDSTONE, pale grey, very fine grained, friable, decomposed		61922	66.0	69.3			25	260	65		0.25	10		69.3	"
				923	69.3	73.3			15	150	30		0.33	15		72.6	60
																75.6	"
73.3	76.8	SILT, pale grey with orange streaks, crumoles easily to fine powder		924	73.3	76.8			85	35	45		1.97	10		78.6	100
																81.6	95
																83.1	25
76.8	81.6	SILT/PUG, soft, black-dark grey, organic rich, pyritic, no carbonate	Pyritic-disseminated fine grains	925	76.8	81.6			70	750	800		4.12	35		84.3	90
																87.2	100
																88.7	95
81.6	250.5	UPPER GORDON LIMESTONE														90.2	80
81.6	85.2	PUG, soft, black-dark grey, organic rich pyritic, dolomitic	Pyritic-disseminated fine grains	926	81.6	85.2			105	3400	3695		6.67	35		91.7	95
																93.2	60
																94.0	100
85.2	92.6	DOLOMITE, dark grey, very finely crystalline, weakly calcareous with numerous white ghosts of bioclasts and fossils (gastropods and branching coral). Some bioclasts calcite	Occasional small patches replacement pyrite, small patch siderite at 91.6, and occasional thin white calcite veins and patches.	927	85.2	89.7			5	65	55		1.17	210		95.5	85
				928	89.7	92.6			5	460	165		1.87	190		98.5	95
																100.0	100
																101.4	"
																103.0	
																104.5	
92.6	96.5	DOLOMITE, dark grey, very finely crystalline, most calcite has been leached out leaving moulds of bioclasts and vughy veins along fracture surfaces. Not as fossiliferous as above	Minor pyrite along fractures and as occasional replacements of bioclasts	929	92.6	96.5			10	155	100		1.17	215		106.0	
																107.5	
																109.0	
																110.5	
																111.5	
																113.0	
96.5	98.9	DOLOMITE, dark grey, as above but with irregular pug filled fractures sub parallel to core. Also fracturing following stylolites with wisps and stringers of more carbonaceous dolomite following stylolites		61930	96.5	98.9			5	160	130		1.27	190		114.5	
																116.0	
																119.0	
																120.5	
																121.5	
																122.0	
98.9	101.2	DOLOMITE, grey, very finely crystalline, occasional sharp, late stage fractures at 20° to core		931	98.9	101.2			10	65	55		1.42	230		125.0	
																128.0	
																130.5	

A 11241

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZG 1007 P2

A 21740

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D %	ASSAY DATA: Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn%	CORE REC'D: RUN	CORE REC'D: %
101.2	118.8	CALCAREOUS DOLOMITE, grey, very finely crystalline, leached, traces of original rehealing calcite along some fractures and around moulds of bioclasts. Breaks along fractures and along carbonaceous stylolites	Minor pyrite replacement around carbonaceous stylolites	61932	101.2	105.5			5	80	50		1.12	295	134.0	90
				933	105.5	110.5			5	195	105		1.47	270	136.5	65
				934	110.5	115.0			10	55	75		1.27	230	138.1	60
				935	115.0	118.8			10	65	55		0.76	220	139.0	30
															140.0	90
118.8	121.7	CALCAREOUS DOLOMITE, grey, finely crystalline, leached and fractured, remnant calcite along fractures as veinlets and around bioclast moulds	Minor pyrite along carbonaceous stylotites. Originally intensely calcite veined. Vughy 1cm quartz veins cut across calcite veins	936	118.8	121.5			5	75	200		1.87	210	143.0	95
															144.8	60
															145.7	90
															146.8	65
															147.8	50
															149.0	50
121.7	128.6	CALCAREOUS DOLOMITE, grey, finely crystalline, most calcite leached out. Brecciation common with rotation of fragments – ?due to dolomitization	2-5% pyrite as replacement along irregular fractures and carbonaceous stylolites.	937	121.5	125.0			10	75	40		3.22	225	152.0	0
				938	125.0	128.6			15	55	70		2.77	205	153.7	100
															155.0	100
															157.8	85
															161.0	35
128.6	133.9	CALCAREOUS DOLOMITE, grey, very finely crystalline, broken along irregular fractures and stylolites because most clacite leached out	Minor pyrite	939	128.6	133.9			5	50	45		1.12	198	161.7	30
															162.3	80
															165.0	65
															168.0	95
															171.0	100
															174.0	"
133.9	136.5	DOLOMITIC LIMESTONE BRECCIA, ragged and rounded clasts of different LST types; debris flow breccia. 50% recovery		61940	133.9	136.5			15	35	35		1.37	245	177.0	95
															180.0	100
															183.0	"
136.5	140.5	DOLOMITIC LIMESTONE, dark grey and grey, some banding at 50°, most fine muddy LST minor leaching 50% recovery		941	136.5	140.5			10	45	25		1.32	290	186.0	"
															189.0	"
															192.0	"
															195.0	"
															198.0	"
140.5	141.9	CALCAREOUS DOLOMITE BRECCIA, breccia due to dolomitization and stylolites with consequent secondary porosity infilled by white calcite		942	140.5	141.9			5	40	25		0.75	225	201.0	"
															204.0	
															207.0	"
															210.0	95
141.9	143.0	DOLOMITE, dark grey, finely crystalline, bioclasts replaced by white calcite, minor leaching		943	141.9	143.0			5	45	90		0.75	220	213.0	10
															216.0	"
															219.0	75
															221.0	10
143.0	149.0	DOLOMITE, dark grey, very finely crystalline rubbly 2-5cm due to leaching out of most calcite from fractures, numerous moulds of bioclasts ~50% recovery		944	143.0	145.7			10	205	275		0.75	325	224.0	95
				945	145.7	149.0			5	155	860		0.75	350	227.0	10
															230.0	"
															233.0	"
149.0	152.0	No recovery													236.0	"

032148

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ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY — TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZG 1007 P3

A 21740

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D %	ASSAY DATA: Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn.	CORE REC'D: RUN	%
152.0	155.7	DOLOMITIC LIMESTONE, grey, banded, incipiently decomposed nodular and fine bioclastic with clasts leached out	Very irregular late quartz-calcite veins last 1m	61946	152.0	155.7			20	3150	1.34%		1.62	505		
															239.0	100
															242.0	"
155.7	164.0	CALCAREOUS DOLOMITE, grey, finely crystalline, often rubbly due to partially leached quartz-calcite veins sub parallel to core	Scattered fragments of pyrite-?after marcasite	947	155.7	158.8			10	955	3395		1.87	360	245.0	95
				948	158.8	164.0			10	570	1795		1.47	310	248.0	100
															251.0	"
															254.0	"
164.0	170.6	CALCAREOUS DOLOMITE, very finely crystalline, grey	Common irregular calcite veins	949	164.0	168.0			5	315	420		0.70	220	257.0	"
			Cavity filling calcite ±quartz	61950	168.0	170.6			5	80	150		0.36	170	260.0	"
															263.0	"
170.6	174.0	CALCAREOUS DOLOMITE, ghosts suggest rock was a very coarse grainstone	Minor pyrite around rims of some calcite patches. Intense cross cutting calcite veinlets Cavity filling calcite common	951	170.6	174.0			10	195	190		0.54	210	266.0	"
															269.0	"
															272.0	"
174.0	178.0	CALCAREOUS DOLOMITE, as above but leached	Coarsely crystalline pyrite exposed by leaching of cavity filling calcite	952	174.0	178.0			10	100	410		1.37	245		
178.0	180.4	CALCAREOUS DOLOMITE, grey, finely crystalline	Pyrite around rims of scattered cavity filling calcite patches Moderate irregular calcite veining.	953	178.0	180.4			<5	45	115		1.07	210		
180.4	186.0	CALCAREOUS DOLOMITE, grey, vague relict clasts suggest rock was originally a medium to very coarse grainstone	Numerous calcite veinlets and small irregular cavity filling calcite patches	954	180.4	186.0			<5	50	120		0.55	260		
186.0	189.2	CALCAREOUS DOLOMITE, grey finely crystalline	Intense network of irregular calcite veinlets and irregular infilling of secondary porosity	955	186.0	189.2			<5	270	590		0.57	285		
189.2	197.6	CALCAREOUS DOLOMITE, grey, predominantly finely crystalline, vaguely banded or thin bedded with 5cm beds. Minor vague relict clasts suggest some thin grainstone beds	193.2-194.8 Intense network calcite veinlets and cavity infilling	956	189.2	194.0			5	125	255		0.63	270		
				957	194.0	197.6			10	50	60		0.51	200		

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ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZC 1007 P4

A 21740

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D %	ASSAY DATA Sample Length	Cu	Pb	Zn	Ag	Fe%	Mn	CORE REC'D RUN	CORE REC'D SHORT
197.6	207.2	CALCAREOUS DOLOMITE, vague relict clasts indicate medium to coarse grainstone with some thin muddy beds and muddy beds with fossils. c.o.a. 70°	Moderate calcite veining and cavity infilling	61958	197.6	203.0			5	60	105		0.41	190		
				959	203.0	207.2			10	95	215		0.66	245		
207.2	215.8	DOLOMITE, grey, finely crystalline, vaguely banded with some patches med. crystalline Minor leaching	Minor pyrite	61960	207.2	211.5			5	85	190		0.34	230		
				961	211.5	215.8			5	60	145		0.98	215		
215.8	222.0	CALCAREOUS DOLOMITE, dark grey, finely crystalline, fractured, partially leached. Vaguely coarsely clastic bands separated by more muddy bands		962	215.8	219.0			10	125	295		0.57	280		
				963	219.0	222.0			5	45	230		0.66	250		
222.0	223.6	LIMESTONE, recrystallized coarse grainstone with thin mudstone bands		964	222.0	223.6			5	120	90		0.47	135		
223.6	225.0	SILTY LIMESTONE, grey, laminated, some stylolites and incipiently nodular but insufficient matrix. c.b.a. 75°. Minor SILTSTONE		965	223.6	225.0			5	35	40		0.30	100		
225.0	233.2	LIMESTONE, roughly banded with 5-10cm fine grey LST separated by 1-5cm bands of dark grey muddy dolomitic LST		966	225.0	229.0			10	30	25		0.45	110		
				967	229.0	233.2			10	30	25		0.41	100		
233.2	241.0	LIMESTONE BRECCIA, rounded and ragged fragments of grey LST, corals & intraclastic grainstone in dark grey muddy dolomitic LST with scattered bioclasts and Tetradium fragments		968	233.2	237.0			<5	25	10		0.39	90		
				969	237.0	241.0			10	35	100		1.32	210		
241.0	250.5	LIMESTONE BRECCIA, as above, but fragments more closely packed with more intraclastic grainstone and some bioclastic packstone Minor leaching at start and end.	1-2cm calcite vein sub parallel to core first 1m. Minor pyrite in some packstone matrix. Minor siderite alteration around 245m	61970	241.0	246.0			5	40	130		0.78	210		
				971	246.0	250.5			5	35	105		1.22	210		
250.5	272.0	SILTSTONE MEMBER														
250.5	254.4	SILTSTONE, LAMINATED CALCAREOUS SILTSTONE and LIMESTONE, LST very fine grained in disrupted thin beds.	Irregular calcite veining before 251.6, patches coarse calcite around 251.6	972	250.5	254.4			10	30	35		1.87	255		

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ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZG 1007 P5

A 21740

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA Sample Length	CORE REC'D RUN	CORE REC'D SHOR
254.4	260.5	LIMESTONE, patchy and disrupted with lumps and irregular bands of pisolitic grainstone, lime mudstone in dark grey muddy matrix of silty dolomitic LST. Some colonial corals.								
260.5	262.7	LIMESTONE, nodular and patchily dolomitized with lumps of lime mudstone, oolitic grainstone, oncolitic limestone in muddy matrix of dark grey muddy dolomitic LST.								
262.7	265.5	LAMINATED CALCAROUES SILTSTONE, c.o.a. 65° bleached at start.	Minor calcite veinlets							
265.5	272.0	SILTY LIMESTONE, dark grey with minor lime mudstone as bands and nodules. Thin beds grainstone with 2cm shert nodules at 266m Occasional thin SILTSTONE beds crowded with collapsed brachiopods. Scattered shell fragments elsewhere with some gastropods and brachiopods								
	EOH									

032151

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

DIAMOND DRILL CORE RECORD

01 HOLE No. (1-7) ZM 1008

LOCATION E.L. 4/78 – ZEEHAN – Myrtle Grid

OBJECTIVE To test zone of geochemical anomalies around baritic lead-zinc mineralisation exposed by costeans.

RESULT 60cm low grade lead-zinc-barite mineralisation recovered from contact between decomposed siltstone and fresh limestone

TOTAL DEPTH 299m
HOLE SIZE OH -3, HQ 3-95.5, NQ
COMMENCED 26.11.85
COMPLETED 4.12.85
LOGGED BY I.J. Mathison

03

8-12 Depth	13-16 Direction	17-18-21 Dip.	8-12 Depth	13-16 Direction	17-18-21 Dip.
51	066½ AMG	59	213	061½	45
95	066	59	256	062	39½
129	064	54	298	058	37
166	062	50			

02
ORE DIP. (8-11)
COLLAR DIP. (12-15) 59°
DIRECTION (16-19) 067° AMG
R.L. (20-23)
CO-ORDS. 50,506N 60,345E
LOCATION Myrtle

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	04 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	Ba	CORE REC'D RUN	%
0	3.0	Non core drilling														0-3.0	NR
3.0	4.5	Decomposed Siltstone, bronze grey, vague fragmental appearance	One thin quartz vein	61973	3.0	4.5			10	35	3295		1.94	20	430	4.5	100
																6.0	75
																7.5	65
4.5	6.0	PUG, pyrite, dark grey		974	4.5	6.0			10	30	2495		3.14	15	400	9.0	85
																12.0	30
6.0	7.5	DECOMPOSED SILTSTONE and PUG, dark grey pyritic		975	6.0	7.5			15	30	1195		1.69	30	480	13.5	80
																15.0	95
																16.5	"
7.5	9.5	DECOMPOSED SILTSTONE, dark grey to grey, broken along closely spaced fractures, less pyritic		976	7.5	9.5			20	30	1245		1.59	30	470	18.0	"
																19.5	45
																21.0	100
																22.5	45
9.5	19.0	DECOMPOSED SILTSTONE, grey to pale grey, cleavage 45° to core	Disseminated pyrite in clay bands. Occasional 1-2cm band coarsely crystalline pyrite	977	9.5	14.5			10	30	1345		0.73	10	500	24.0	100
				978	14.5	19.0			10	45	1645		2.64	20	440	25.5	85
																27.0	95
																28.5	80
19.0	24.5	PUG, dark grey, pyritic	20cm coarse pyrite at 20.8 coarse grained lumps pyrite 1-2cm scattered throughout	979	19.0	23.0			10	360	1845		9.15	15	590	30.0	45
				61980	23.0	27.0			15	75	5.59%	1.5	2.74	10	1200	30.6	85
																31.8	75
																33.0	0
24.5	30.0	PUG, grey and dark grey, pyritic	Bands coarsely crystalline pyrite and bands with irregular lumps 1-2cm of granular pyrite	981	27.0	30.0			15	60	2645		1.99	15	850	34.5	85
																36.0	100
																37.5	"
																39.0	"
																40.5	"
30.0	33.8	DECOMPOSED SILTSTONE and PUG, dark grey and grey, some cleavage sub parallel to core		982	30.0	33.8			20	45	2745		1.94	15	600	42.0	"
																43.4	"
																44.9	85
				983	33.8	37.9			25	15	1095		1.54	10	740	48.0	"
33.8	44.9	SILTSTONE, grey porous, sparse cleavage 30-40° to core		984	37.9	41.9			10	15	1445		1.74	10	730	51.0	0
				985	41.9	44.9			25	20	1795		1.49	15	790	53.0	50
				986	44.9	48.0			15	30	7795		2.29	20	850	54.0	100
44.9	48.0	PUG, dark grey														56.4	40
																60.0	15
48.0	51.0	No recovery														61.5	30

A 11241

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZM 1008 P2

A 21740

DEPTH FROM	DEPTH 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	Ba	CORE REC'D: RUN	%
51.0	52.6	PUG, grey		61987	51.0	52.6			20	30	1735		1.94	20	6000	62.5	100
																63.0	
52.6	56.5	SILTSTONE, grey, porous, no cleavage developed. 10cm grey pug at end		988	52.6	56.5			15	315	4195		1.44	20	6500	64.5	
																66.0	
																67.5	
56.5	60.0	20% recovery. MINERALIZED SILTY LIMESTONE, porous, leached and irregularly sheared at 30° to core, followed by 5cm barite vein	Estimated 2% Pb and 2% Zn as fine galena and coarser yellow & brown sphalerite. 5% pyrite, fine grained along irregular shears. Yellow brown sphalerite in barite at end	989	56.5	60.0			20	1.29%	2.69%	5.5	1.19	10	8.86%	69.0	
																70.5	
																72.0	
																73.5	
																75.0	
																76.5	
																78.0	
																79.5	
60.0	65.0	BIOCLASTIC LIMESTONE, grey, fine grained with some larger shell fragments and gastrodpods. Irregular patches dark grey more dolomitic LST, especially around stylolites	Moderately intense calcite veining - many veins pre-stylolites	990	60.0	63.8			5	35	285		0.49	135	2200	81.0	
																82.5	
																84.0	
																87.0	
																90.0	
																93.0	
65.0	72.3	BIOCLASTIC LIMESTONE, as above, rock stressed with some cleavage and elongation of clasts at 45° to core.	1-2cm calcite vein 5° to core from 67.3-68 with thin pug or bituminous zone in middle													95.5	
																97.5	
																100.5	
																103.5	
72.3	78.3	LIMESTONE, grey, mudstone with occasional irregular bands and patches dark grey dolomitic LST associated with some stylolites. Rock stressed at 45° to core but opposite to calcite veins 70° to core	Several 1-2cm calcite veins 70° to core. 10cm shear zone at 72.8 rehealed by calcite.													106.5	
																109.5	
																111.9	
																112.5	↓
																115.5	90
																117.0	45
78.3	82.5	LIMESTONE, as above, but occasional shell fragments and gastropods. Stress related stylolites post date dark grey dolomitization along stylolites.														119.0	40
																121.3	85
																124.0	100
																125.0	
																128.0	
82.5	84.5	LIMESTONE as above, cleaved around 30cm white calcite vein. Vein includes angular LST fragments.														131.0	
																134.0	
																137.0	
																140.0	
84.5	88.3	LIMESTONE, roughly banded, banding of grey mudstone and dark grey dolomitic LST cut at high angle by stress related stylolites.	Late 5-10mm calcite veins													143.0	85
																144.8	70
																146.0	100
																149.0	-
																152.0	-
																155.0	-

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZM 1008 P3

A 21740

DEPTH FROM	DEPTH TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE No.	6-13 FROM	14-19 TO	CORE REC'D	ASSAY DATA: Sample Length	20-25	26-31	32-37	38-43	44-49	50-55	CORE REC'D: RUN	%
88.3	89.5	LIMESTONE, grey, wispy mudstone with small gastropods and fine shell fragments. Fragments and wisps elongate along shearing	10cm irregular calcite veining at end												158.0	100
															161.0	-
															164.0	-
89.5	99.0	LIMESTONE, grey mudstone with scattered vague shell fragments throughout and small patches with numerous shell fossils. Thin wispy and patchy dolomitization along stylolites. Bedding, fossils and dolomitization disrupted by shearing at 30° to core.													167.0	90
															170.4	80
															173.0	100
															176.0	↓
															179.0	↓
															182.0	↓
															185.0	↓
															188.0	↓
99.0	105.5	LIMESTONE, grey, fine grained, with occasional bands and patches of dark grey, especially along stylolites. Occasional 1cm gastropod. Shearing at 40° to core	Common irregular calcite veinlets and tension gashes. Common 1-2cm calcite veins at 60° to core axis. 10cm calcite at 99.5												191.0	↓
															193.8	90
															196.8	100
															198.6	"
105.5	109.4	LIMESTONE, sheared, tectonically brecciated, stylolitic, intensely veined and rehealed by calcite	1cm pyrite along shear at 108.5. A late 1-2cm calcite vein 60° to core at 106.3												201.5	95
															203.4	100
															205.6	95
															209.0	-
															212.0	100
															215.0	↓
109.4	111.9	SILTY LIMESTONE, pale grey, stressed at 40° to core but no foliation because of intense network of fine stylolites at high angle to cleavage													218.0	↓
															221.0	↓
															224.0	↓
															227.0	↓
															230.0	↓
111.9	116.5	LIMESTONE, pale grey, very fine grained moderately to intensely sheared at 40° to core. Intense network of fine stylolites near intense shearing; 30cm cavity at 115.0m	Pyrite in calcite at 112.2 and 114.5. Irregular calcite veins												236.0	↓
															239.0	↓
															242.0	↓
															248.0	↓
															251.0	↓
															254.0	↓
116.5	122.5	Probable Fault Zone, limestone intensely sheared, tectonic brecciation, intense calcite veining, 40cm cavity 116.6, 60cm quartz+calcite vein at 119.0m.	Pyrite associated with calcite and stylolites last metre												257.0	↓
															260.0	↓
															263.0	↓
															266.0	↓
															269.0	↓
122.5	125.0	SILTY LIMESTONE, grey, sheared with cleavage 45° to core. 20cm late white calcite at 123.8m	30% pyrite in calcite from 124.5 -125. Common calcite veining sub parallel to cleavage, occasionally pyritic												272.0	↓
															275.0	↓
															277.8	↓
															278.9	30

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY – TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZM 1008 P4

A 21740

DEPTH FROM	DEPTH 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	
125.0	128.0	SILTY LIMESTONE, sheared and often brecciated. Breccia from soft sediment deformation or shearing of original sediment with rip up clasts	Trace pyrite on some stylolites Fine network of calcite veins													are
															281.0	0
															284.0	90
128.0	130.0	LIMESTONE, grey fine grained, with irregular patches of dark grey dolomitization													287.0	70
															289.0	100
															290.5	↓
130.0	133.0	NODULAR AND ?BURROWED LIMESTONE, stressed Minor leaching 132.0m	2% pyrite 132.4-133.0 in calcite veins												293.0	
															296.0	
															299.0	
133.0	136.8	LIMESTONE, grey, stressed, bedding disrupted by shearing, thin beds of grainstone, nodular LST, rounded and coated interclasts, and ? birdseye LST. Minor patchy dark grey dolomitization along stylolites	Moderate calcite veining													
136.8	142.8	PATCHY LIMESTONE, fine bioclastic, stressed and sheared at 45° to core. Stress disrupts patchy dolomitization	Minor pyrite in 1cm calcite vein at 137.2, 10cm white calcite rehealing with minor quartz at 139.5													
142.8	143.6	LIMESTONE, intensely sheared, partially leached and decomposed. Includes medium to coarse intraclastic grainstone and patchy dolomitic bioclastic LST	c.b.a. 40° cleavage 40° Pitch bedding in cleavage 35° clockwise looking down hole													
143.6	146.5	LIMESTONE, grey, stressed, some patchy dolomitization along stylolites, some medium-coarse intraclastic grainstone	10cm intense calcite replacement at 144.0m and 146.5													
146.5	148.7	BANDED DOLOMITIC LIMESTONE, sheared, banding parallel to shearing	Minor calcite veining along shearing													
148.7	153.0	LIMESTONE, grey and dark grey, stressed, includes bioclasts, intraclasts, gastropods, brachiopods and ?oncolites. Scattered bioclasts in dark grey. Shearing at 45°														
153.0	154.6	LIMESTONE, as above with intense development of stylolites	10cm calcite rehealing breccia around slickensided shears at 153m and 154m													

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY — TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZM 1008 P5

A 21740

DEPTH FROM	DEPTH 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	SHOR
154.6	165.3	COARSE INTRACLASTIC GRAINSTONE, grey with interbedded dark grey nodular LST, and fine-medium intraclastic and bioclastic grainstone. Coarser beds contain some colonial corals and gastropods															
165.3	172.7	CALCAREOUS SILTSTONE, dark grey, sheared and cleaved at 45°. Occasional thin LST beds with bedding subparallel to cleavage	Several 10-20cm calcite patches rehealing shears and breccia zones. 1m calcite rehealing at end														
172.7	176.6	STRESSED LIMESTONE, foliation 60° to core, fossils and bioclasts elongated and include ?corals and ?gastropods. Pale grey tubules 1cm diameter after 175m are possibly burrows. Some patchy dolomitization along stylolites	Moderate calcite veining														
176.6	181.9	THIN BEDDED LIMESTONE, includes beds of dark grey dolomitic mudstone, intraclastic and bioclastic mudstone. c.b.a. 40° Several large colonial corals occasional shears at 60°	Moderate calcite veining														
181.9	191.0	SILTY LIMESTONE, grey moderately cleaved thin beds dark grey lime mudstone and two shelly bands. c.b.a. 35°, cleavage 45° pitch bedding in cleavage 30° clockwise from long axis looking downhole	Minor pyritic in calcite at start. Moderate irregular veining Bedding 028° W 74 Cleavage 135° SW 84°														
191.0	200.3	LIMESTONE AND SILTY LIMESTONE, silty units cleaved at 45°, banding in LST 40° but often disrupted	Moderately intense irregular calcite veining. Minor pyrite in calcite first 2m														
200.3	205.0	BANDED LIMESTONE, grey with some dark grey bands and patches. Obviously stressed at 45°	Intense calcite veining with several 10cm calcite patches or veins														
205.0	208.3	PROBABLE FAULT ZONE, white calcite with patches and fragments of grey LST. Several carbonaceous stylolites and slickensided shears															

156

ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY — TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. ZM 1008 P6

A 21740

DEPTH FROM	DEPTH 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	SHOR
208.3	233.0	LIMESTONE, grey bioclastic wackestone with patchy stringers of dark grey dolomitization along stylolites. Stressed at 50° Shelly band at 211m gives c.b.a. 40°	Scattered irregular calcite veins														
233.0	240.0	SHELLY LIMESTONE, grey, fossiliferous bioclastic and intraclastic packstone, obviously stressed. Contains numerous valves of brachiopods, articulated brachiopods, small colonial corals and ?pelycopods Scattered irregular patches of dolomitization	Moderate calcite veining with 10cm veins at 233, 235 and 235.6. Traces fine disseminated pyrite in matrix														
240.0	247.6	SHELLY LIMESTONE AND LIME MUDSTONE, grey, stressed with minor cleavage in mudstone															
247.6	253.8	COARSE LIME GRAINSTONE, pale grey, well sorted, intraclastic and bioclastic with clasts elongated by stress. Some beds shelly LST. Calcite cement late?	Occasional calcite veining and cavity infilling														
253.8	258.5	SHELLY LIMESTONE VERY COARSE GRAINSTONE AND LIME MUDSTONE. Grainstone clasts = intraclasts and bioclasts; mudstone irregulary dolomitized along stylolites. Bedding deformed by stress	5-10cm calcite veins at 257.5 and 258.0														
258.5	271.5	LIME GRAINSTONE, pale grey, fine pelletal to very coarse intraclastic and bioclastic some shelly packstone and mudstone beds. Bedding disrupted and clasts elongated by foliation at 50°. Minor irregular dolomitization along stylolites	Occasional calcite veins														
271.5	278.0	SHELLY LIMESTONE, pale grey, with thin pale grey lime mudstone beds. ?c.b.a. 30° stressed at 50°	Occasional calcite veins														
278.0	289.0	SILT, cream, crumbles to fine powder Limestone above and below leached for 5cm															
289.0	299.0	LIME MUDSTONE AND WACKESTONE, grey, wackestone fine bioclastic, some patchy dolomitization along irregular stylolites	Moderate irregular calcite veining														

032157

APPENDIX 5.

Petrological Report

158

032159

Central Mineralogical Services

39 Beulah Road
Norwood, S.A. 5067
Telephone 42 5659

Mr. I. Mathison
Geologist
Mineral Resources Division
Electrolytic Zinc Co. of
Australasia Ltd.
P.O.Box 21
ROSEBERY / TAS. 7470

9th April, 1986

REPORT CMS 86/4/1

YOUR REFERENCE:	Order No. 900746
DATE RECEIVED:	1st April, 1986
SAMPLE NOS.:	63640 - 63646
SUBMITTED BY:	I. Mathison
WORK REQUESTED:	Petrology

for

H.W. Fander, M. Sc.

REPORT CMS 86/4/1

Seven drill core samples of variably dolomitic Gordon Limestone were received for brief petrological description. Representative thin-sections were prepared, examined in transmitted light and, together with stained offcuts, in oblique incident light. Attached tabulated descriptions summarise the microscopic data and include interpretative comments.

Summary

This suite comprises dolomitic to essentially pervasively dolomitised impure (carbonaceous,argillaceous) limestones and limestone breccias, complexed to varying degrees by a temporally late sideritic carbonate and impure calcite alteration assemblage. General features are analogous to previously noted alteration trends within the Gordon Limestone, notably in terms of partly selective ankeritic dolomite replacements of relatively impure (i.e. relatively carbonaceous, argillaceous) limestone facies and subsequent brownspar-calcite development in relatively dolomitised zones.

The sediments carry semi-ubiquitous fine to ultrafine sulphide (pyrite, galena ± pale sphalerite) disseminations of "syngenetic" character. Detectable sphalerite contents in the majority of these rocks are insufficient to account for the quoted range of assay Zn-values of 1-17 % and, on this basis, the "sideritic" (brownspar) carbonate phase is interpreted as zincian or smithsonitic. This phase appears to be sphalerite-replacive in part, notably in sample 63643, where extremely fine sphalerite in relics of calcicised dolomite appear as inclusions in calcite, but are essentially absent from the associated brownspar rhombs.

Samples 63644, 63645 and 63646 exhibit zoned dolomite rhombs with high R.I., conceivably zincian core zones.

A generalised but rather consistent sequential carbonate paragenesis may be delineated as ankeritic dolomite followed by brownspar and late impure calcite.

D. Cowan, B. Sc.

160

032161

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D. Cowan, B. Sc.

	Sample No.	Classification - Composition	Fabric	Accessories	Comments
ZWG 22 11·8m	63640 (T.S. 55714)	"Sideritised" Limestone. Fine sparry siderític carbonate with interstitial carbonaceous matter, minor clay ("sericite"). Sporadic poikilitic anhedra of impure calcite. Minor silt-sized quartz grains.	Crudely lenticularly banded; mildly sheared with weakly crenulated carbonaceous shaly partings.	Traces galena, ultrafine pyrite; rare microscopic blebs of pale sphalerite. Minor microscale calcite veinlets.	Primarily a weakly carbonaceous shal parted, slightly quartzose-silty carbonaceous limestone. Reflects dia genetic sideritisation, late Fe- calcite vug development.
ZWG 26 7.1	63641	Sideritic Dolomite Breccia. Clasts of carbonaceous, weakly argillaceous fine sparry dolomite in a siderite rhomb-impregnated, relatively carbonaceous-sericitic dolomite matrix. Interspersed vugs of calcite with included siderite rhombs.	Angular random millimetric-scale clastss Corrocive/replacive "siderite" rhombs, poikilitic calcite.	Traces of galena, silt-sized quartz grains, minor traces ultrafine pyrite and pale sphalerite.	Dolomitised impure limestone breccia reflecting parial sideritisation and late impure (Fe-)calcite development analogous to that in 63640.
ZWG 26 11·8	63642	Sideritic Dolomite Breccia. Clasts of carbonaceous, weakly argillaceous dolomite. Cement of anhedral, variably poikilitic calcite with corroded dolomite rhombs, interspersed single rhombs, semi-massive clusters of sideritic carbonate, minor quartz.	Closely analogous to 63641; "megaclastic" in comparison.	Minor relatively sideritised carbonaceous shale clasts, discontinuous carbonaceous stylolites. Very fine galena, rare sphalerite.	Close affinities with 63641. Primaril dolomitised calcarenite-matrixed. Galena is of syngenetic character. Carbonate paragenesis is dolomite/ "siderite"/calcite.
ZWG 26 22·0	63643	Sideritic Calcite Rock. Poikilitic, medium-grained impure calcite with more or less pervasive partly- to included sideritic carbonate rhombs, patchy relics of carbonaceous dolomite. Conspicuous very fine pale sphalerite.	Crudely banded to relict breccia-textured. Replacive and interclast cavity-filling calcite.	Semi-pervasive carbonaceous matter. Corroded carbonaceous pelite clasts. Rare (relict detrital) muscovite.	Dolomitised limestone breccia characteristics largely obscured by marked "secondary" calcitisation. Sphalerite initially concentrated in clasts, now included in calcite.
ZG 1007 148·6	63644	Carbonaceous Dolomite. Fine-grained sparry dolomite with pervasive interstitial, incipiently sericitic carbonaceous matter. Sporadic vugs and veinlets of calcite. Disseminated fine to ultrafine pyrite.	Banded, mildly contorted with sporadic displacive sparry dolomite veinlets. Weakly corrosive calcite.	Traces of galena. Minor traces of quartz in dolomite veinlets, minor dolomite-interstitial relics of calcite.	Dolomitised impure limestone with relatively conspicuous syngenetic pyrite. No detectable sphalerite or galena. Dolomite is weakly zoned wit high R.I. cores.
ZG 1007 153·4	63645	Carbonaceous Dolomite. Fine sparry dolomite with pervasive interstitial carbonaceous matter, minor semi-sericitic white mica, thinly disseminated silt- to fine sand-sized quartz grains. Minor carbonaceous partings.	Banded on fine millimetric scale. Mildly brecciated with displacive carbonaceous microfractures.	Fine to ultrafine pyrite, galena, rare pale sphalerite. Minor vugs of dolomite with traces of chalcedonic quartz.	Close affinities with 63644, relativ ly massive (unveined) in comparison. Carbonate is similarly weakly zoned with high R.I. core zones.
ZG 1007 154·7	63646 (T.S. 55720)	Dolomitic Limestone. Carbonaceous dolomite (sim. 63644, 63645) in carbonaceous-parted contact with a weakly/pervasively fine sparry dolomite-stained, weakly carbonaceous microcrystalline limestone.	Banded on centimetric scale. Mildly sheared with displacive carbonaceous microfractures, concentrated in the limestone.	Traces of pyrite, galena in dolomite. Minor vugs of calcite, cherty quartz + pale sphalerite in limestone.	Reflects selective dolomitisation of relatively carbonaceous-argillaceous (impure) limestone unit. Dolomite is similar to that in 63644, 63645; relatively weakly zoned.

MYRTLE

E.L. 4/78

E.L. 15/76

GRIEVES

52° A.M.G

48400N

48600N B.N

48600N

48800N

49000N

49200N

49400N

49600N

49800N

50000N

50200N

50400N

50500E 359° A.M.G

50500E

50000E

LEGEND

COLOUR

pk - pink
br - brown
bl - blue
gy - grey
rd - red
cr - cream
lt - light
wh - white
bk - black
gr - green
yl - yellow
or - orange
pl - pale
dk - dark

TEXTURE

fg - fine grained
mg - medium grained
cg - coarse grained
bxd - brecciated
clvd - cleaved
shrd - sheared
calc - calcareous
carb - carbonaceous
lam - laminated
xbd - cross bedded
thn bd - thin bedded
thk bd - thick bedded
vn - veins, veining
foss - fossiliferous
sil - siliceous
mic - micaceous
ferr - ferruginous
int - intense
wk - weak
v - very
pb - pebble
cb - cobble
tr - trace
int bd - inter bedded
tbcl - tubicolor
frct - fractured

ROCK TYPE

SST - sandstone
LST - limestone
Bx - breccia
SH - shale
QZT - quartzite
GRT - grit
PUG - pug
SLT - siltstone
DLST - dolomite
CGL - conglomerate
BSH - black shale
I.M - ironstone
CLY - clay
GRA - gravel

MINERALOGY or ALTERATION

qz - quartz
gn - galena
lm - limonite
cbd - carbonated
c - calcite
py - pyrite
sp - sphalerite
cp - chalcopyrite
sld - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g

dk gy mg foss SST or gy calc SH py or pl gy LST sld

TOPOGRAPHICAL

cut grid lines
roads
tracks
or
tramways
power lines
rivers, creeks
swampy area
joint
joint - vertical
overturned
bedding
bedding - vertical
quarries

560 Geochemistry → Overburden

n/b = not bedrock.

200 - 400 ppm
400 - 800 ppm
> 800 ppm

11°
TN
MN

032164

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

5 cm

MYRTLE GRID

BEDROCK GEOCHEMISTRY

Pb

(WACKER)

PL. 1

Scale: 1:5000	Survey: I.M.A.T.	Revised:
Reference: A-78-608	Date: 11-7-84	REF. No. AI-532-0087
Drawn: R.J.R.	Checked:	

86-2547

5782

MYRTLE

E.L. 4/78

E.L. 15/76

GRIEVES

48600N

48800N

49000N

49200N

49400N

49600N

50000N

50200N

50600N

50900N

60500E 359° A.M.G

52° A.M.G

48400N

48600N B.N.

To Zeehan

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cut grid lines
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or tracks
tramways
power lines
or rivers, creeks
swampy area
joint
joint - vertical
overturned
bedding
bedding - vertical
quarries

215 Geochemistry → Overburden

n/b = not bedrock

300 - 600 ppm
600 - 1200 ppm
> 1200 ppm

11° TN MN

032165

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

5 cm

MYRTLE GRID

BEDROCK GEOCHEMISTRY

Zn

(WACKER)

PL. 2.

Scale : 1:5000	Survey : I.MAT.	Revised :
Reference : A-78-60B	Date : 11-7-'84	REF. No.
Drawn : R. J. R.	Checked :	AI-532-0086

86-2547

5765

MYRTLE

E.L. 4/78

E.L. 15/76

GRIEVES

52° A.M.G

48400N

48600N B.N.

N48600

N48800

N49000

N49200

N49400

N49600

N49800

N50000

N50200

N50400

N50600

N50800

N50900

to 2 main

60500E 359° A.M.G

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Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

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dk gy mg foss SST or gy calc SH py or pl gy LST sid

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- cut grid lines
- roads
- tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- joint
- joint - vertical
- overturned
- bedding
- bedding - vertical
- quarries

n/b = not bedrock

- 400 – 800 ppm
- 800 – 1600 ppm
- > 1600 ppm

11° TN MN

032166

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

5 cm

MYRTLE GRID

BEDROCK GEOCHEMISTRY

Ba

(WACKER)

PL.3

Scale : 1:5000	Survey : I.MAT.	Revised :
Reference : A-78-608	Date : 11-7-'84	REF. No. A1-532-0090
Drawn : R. J. R.	Checked :	

86-2547

5766

MYRTLE

E.L. 4/78

GRIEVES

E.L. 15/76

To Zeehan

32° A.M.G

4840000N

4860000N B.M.

48800N

48900N

49000N

49200N

49400N

49600N

49800N

50000N

50200N

50400N

50600N

60500E 359° A.M.G

LEGEND

COLOUR

pk - pink
br - brown
bl - blue
gy - grey
rd - red
cr - cream
lt - light
wh - white
bk - black
gr - green
yl - yellow
or - orange
pl - pale
dk - dark

TEXTURE

fg - fine grained
mg - medium grained
cg - coarse grained
bxd - brecciated
clvd - cleaved
shrd - sheared
calc - calcareous
carb - carbonaceous
lam - laminated
xbd - cross bedded
thbd - thin bedded
thk bd - thick bedded
vn - veins, veining
foss - fossiliferous
sil - siliceous
mic - micaceous
ferr - ferruginous
int - intense
wk - weak
v - very
pb - pebble
cb - cobble
tr - trace
interbd - interbedded
tbcl - tubicolar
frct - fractured

ROCK TYPE

SST - sandstone
LST - limestone
BX - breccia
SH - shale
QZT - quartzite
GRIT - grit
PUG - pug
SLT - siltstone
DLST - dolomite
CGL - conglomerate
BSH - black shale
LIM - ironstone
CLY - clay
GRA - gravel

MINERALOGY or ALTERATION

qz - quartz
gn - galena
lim - limonite
cbd - carbonated
c - calcite
py - pyrite
sp - sphalerite
cp - chalcopyrite
sid - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

cut grid lines
roads
or tracks
tramways
power lines
or rivers, creeks
swampy area
090° joint
090° joint - vertical
090° overturned
090° bedding
090° bedding - vertical
quarries

n/b = not bedrock.

250 - 500 ppm
500 - 1000 ppm
> 1000 ppm

TN
11°
MN

032167

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

5 cm

MYRTLE GRID

BEDROCK GEOCHEMISTRY

Mn

(WACKER)

PL. 4

Scale : 1:5000	Survey : I. MAT.	Revised :
Reference : A-78-608	Date : 11-7-'84	REF. No.
Drawn : R. J. R.	Checked :	AI-532-0089

86-2547

5767

BAURA

GRIEVES

ROSE VALLEY

LEGEND

COLOUR

pk - pink
br - brown
bl - blue
gy - grey
rd - red
cr - cream
lt - light
wh - white
bk - black
gr - green
yl - yellow
or - orange
pl - pale
dk - dark

TEXTURE

fg - fine grained
mg - medium grained
cg - coarse grained
bxd - brecciated
clvd - cleaved
shrd - sheared
calc - calcareous
carb - carbonaceous
lam - laminated
xbd - cross bedded
th bd - thin bedded
tk bd - thick bedded
vn - veins, veining
foss - fossiliferous
sil - siliceous
mic - micaceous
ferr - ferruginous
int - intense
wk - weak
v - very
pb - pebble
cb - cobble
tr - trace
in bd - infer bedded
tbcl - tubicolar
frct - fractured

ROCK TYPE

SST - sandstone
LST - limestone
BX - breccia
SH - shale
QZT - quartzite
GRIT - grit
PUG - pug
SLT - siltstone
DLST - dolomite
CGL - conglomerate
BSH - black shale
LIM - ironstone
CLY - clay
GRA - gravel

MINERALOGY or ALTERATION

qz - quartz
gn - galena
lim - limonite
cbd - carbonated
c - calcite
py - pyrite
sp - sphalerite
cp - chalcopyrite
sid - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g

dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

cut grid lines
roads
tracks
tramways
power lines
rivers, creeks
swampy area
joint
joint - vertical
overturned
bedding
bedding - vertical
quarries

N.B. - n/b = not bedrock.

230 Geochemistry — Overburden

600 Soil Pit — Bedrock Sample

200 – 400 ppm.

400 – 800 ppm.

> 800 ppm.

032169

5 cm

ELECTOLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN ,TAS.

BAURA GRID
BEDROCK GEOCHEMISTRY
Pb
(WACKER)

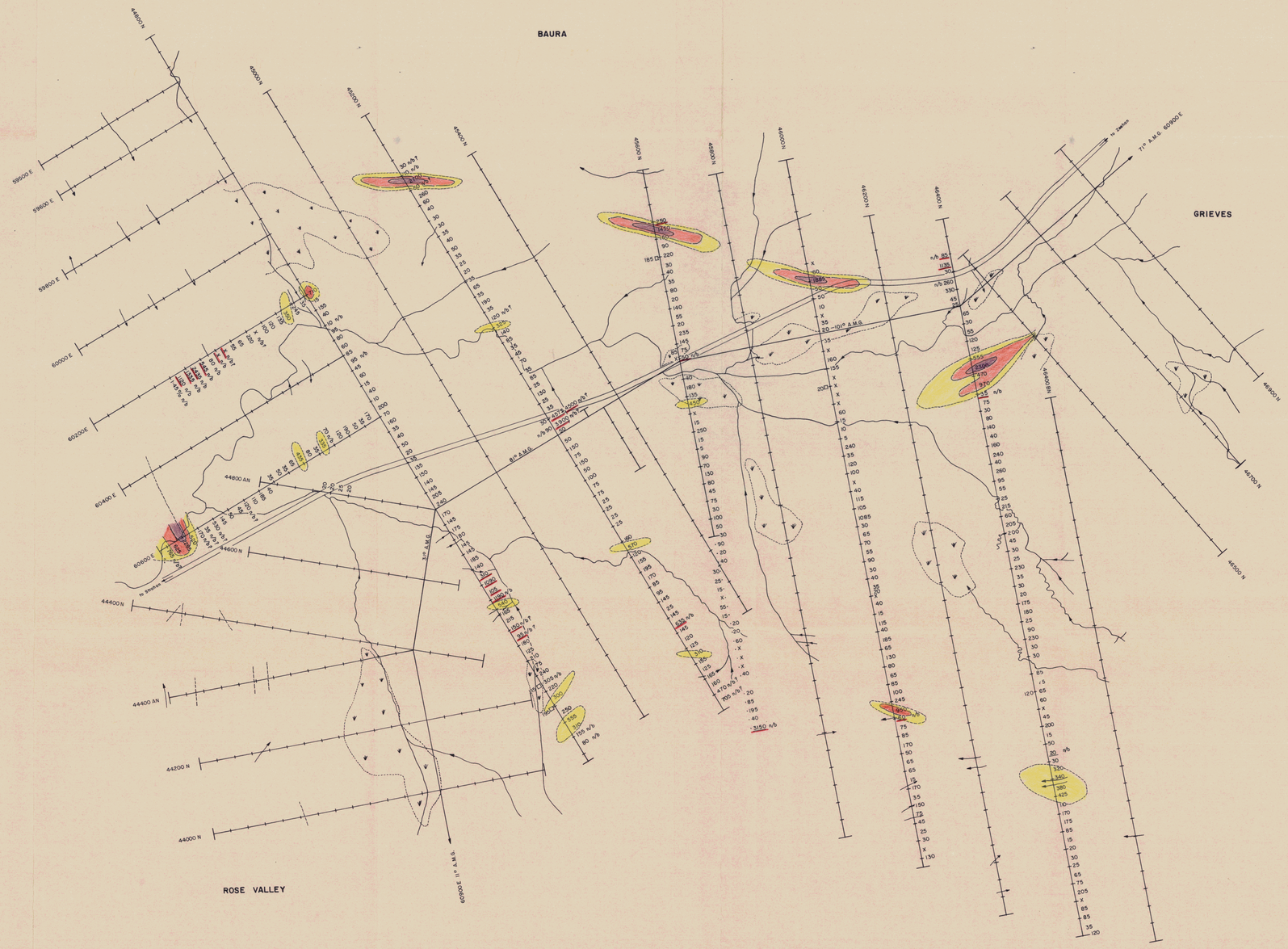
PL. 5

Scale: 1:5000	Survey: I.MAT.	Revised:
Reference: AI-532-	Date: 29-8-84	Ref. No. AO-532-0102
Drawn: R.J.R.	Checked:	

86-2547

5768

5768



LEGEND

COLOUR

pk - pink
br - brown
bl - blue
gy - grey
rd - red
cr - cream
lt - light
wh - white
bk - black
gr - green
yl - yellow
or - orange
pl - pale
dk - dark

TEXTURE

fg - fine grained
mg - medium grained
cg - coarse grained
bxd - brecciated
clvd - cleaved
shrd - sheared
calc - calcareous
carb - carbonaceous
lam - laminated
xbd - cross bedded
tn bd - thin bedded
tk bd - thick bedded
vn - veins, veining
foss - fossiliferous
sil - siliceous
mic - micaceous
ferr - ferruginous
int - intense
wk - weak
v - very
pb - pebble
cb - cobble
tr - trace
in bd - inter bedded
tbcl - tubicolor
frct - fractured

ROCK TYPE

SST - sandstone
LST - limestone
BX - breccia
SH - shale
QZT - quartzite
GRIT - grit
PUG - pug
SLT - siltstone
DLST - dolomite
CGL - conglomerate
BSH - black shale
LIM - ironstone
CLY - clay
GRA - gravel

MINERALOGY or ALTERATION

qz - quartz
gn - galena
lim - limonite
cbd - carbonated
c - calcite
py - pyrite
sp - sphalerite
cp - chalcopyrite
sil'd - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sil'd

TOPOGRAPHICAL

cut grid lines
roads
tracks
tramways
power lines
rivers, creeks
swampy area
joint
joint - vertical
overturned
bedding
bedding - vertical
quarries

N.B. - a/b = not bedrock.

300 – 600 ppm.
600 – 1200 ppm.
>1200 ppm.

20 Geochemistry → Overburden.

20□ Soil Pit – Bedrock Sample.

032168

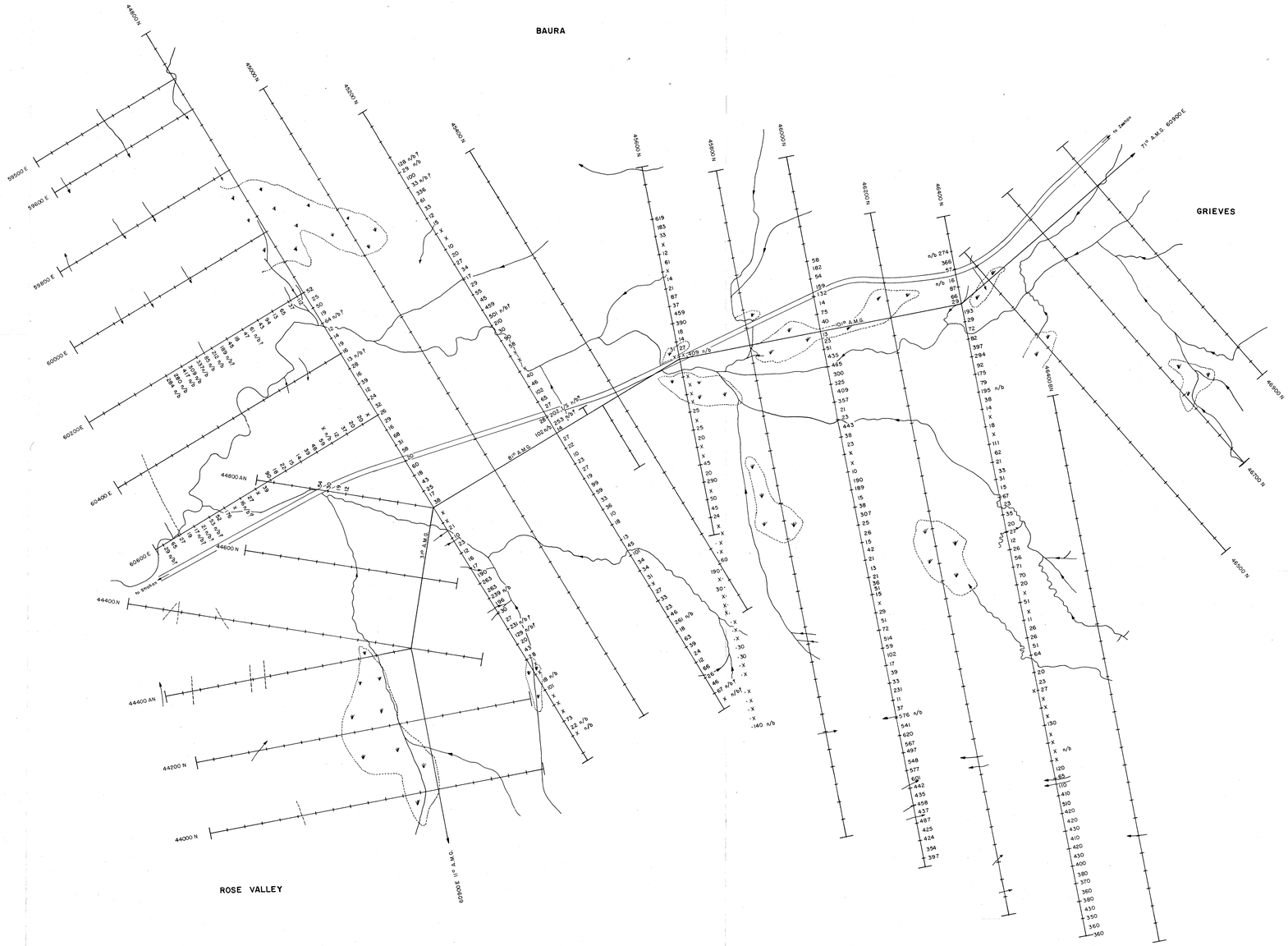
5 cm

ELECTOLYTIC ZINC CO. OF A'ASIA LTD.		
PROJECT: E.L. 4/78 ZEEHAN ,TAS.		
BAURA GRID BEDROCK GEOCHEMISTRY Zn (WACKER)		PL. 6
Scale: 1:5000	Survey: I.MAT.	Revised:
Reference: AI-532-	Date: 29-8-'84	Ref. No.
Drawn: R.J.R.	Checked:	AO-532-0101

86-2547

5769

5769



LEGEND

COLOUR

pk – pink
br – brown
bl – blue
gy – grey
rd – red
cr – cream
lt – light
wh – white
bk – black
gr – green
yl – yellow
or – orange
pl – pale
dk – dark

TEXTURE

fg – fine grained
mg – medium grained
cg – coarse grained
bxd – brecciated
clvd – cleaved
shrd – sheared
calc – calcareous
carb – carbonaceous
lam – laminated
xbd – cross bedded
tn bd – thin bedded
tk bd – thick bedded
vn – veins, veining
foss – fossiliferous
sil – siliceous
mic – micaceous
ferr – ferruginous
int – intense
wk – weak
v – very
pb – pebble
cb – cobble
tr – trace
in bd – inter bedded
tbcl – tubicolar
frct – fractured

ROCK TYPE

SST – sandstone
LST – limestone
BX – breccia
SH – shale
QZT – quartzite
GRIT – grit
PUG – pug
SLT – siltstone
DLST – dolomite
CGL – conglomerate
BSH – black shale
LIM – ironstone
CLY – clay
GRA – gravel

MINERALOGY or ALTERATION

qz – quartz
gn – galena
lim – limonite
cbd – carbonated
c – calcite
py – pyrite
sp – sphalerite
cp – chalcopyrite
sid – silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils.
e.g.
dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

cut grid lines
roads
tracks
tramways
power lines
rivers, creeks
swampy area
joint
joint – vertical
overturned
bedding
bedding – vertical
quarries

N.B. – n/b = not bedrock.

TN MN 10°

032170

5 cm

ELECTOLYTIC ZINC CO. OF A'ASIA LTD.		
PROJECT: E.L. 4/78 ZEEHAN ,TAS.		
BAURA GRID BEDROCK GEOCHEMISTRY Ba (WACKER) PL. 7		
Scale: 1:5000	Survey: I.MAT.	Revised:
Reference: AI-532-	Date: 29-8-'84	Ref. No. AO-532-0105
Drawn: R.J.R.	Checked:	

86-2547

5770

S770

LEGEND

COLOUR

pk - pink	wh - white
br - brown	bk - black
bl - blue	gr - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - brecciated	ferr - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - trace
tn bd - thin bedded	in bd - inter bedded
tk bd - thick bedded	tbcl - tubicolar
vn - veins, veining	frct - fractured

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	LIM - ironstone
GRIT - grit	CLY - clay
PUG - pug	GRA - gravel

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
gn - galena	sp - sphalerite
lim - limonite	cp - chalcopyrite
cbd - carbonated	si'd - silicified
c - calcite	

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils.

e.g.

dk gy mg foss SST. or gy calc SH py or pl gy LST si'd

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks (or)
- tramways
- power lines
- rivers, creeks (or)
- swampy area
- joint
- joint - vertical
- overturned
- bedding
- bedding - vertical
- quarries

N.B. - n/b = not bedrock.

TN MN 10°

032171

5 cm

ELECTOLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: E.L. 4/78 ZEEHAN ,TAS.

BAURA GRID

BEDROCK GEOCHEMISTRY

Mn

(WACKER)

PL. 8

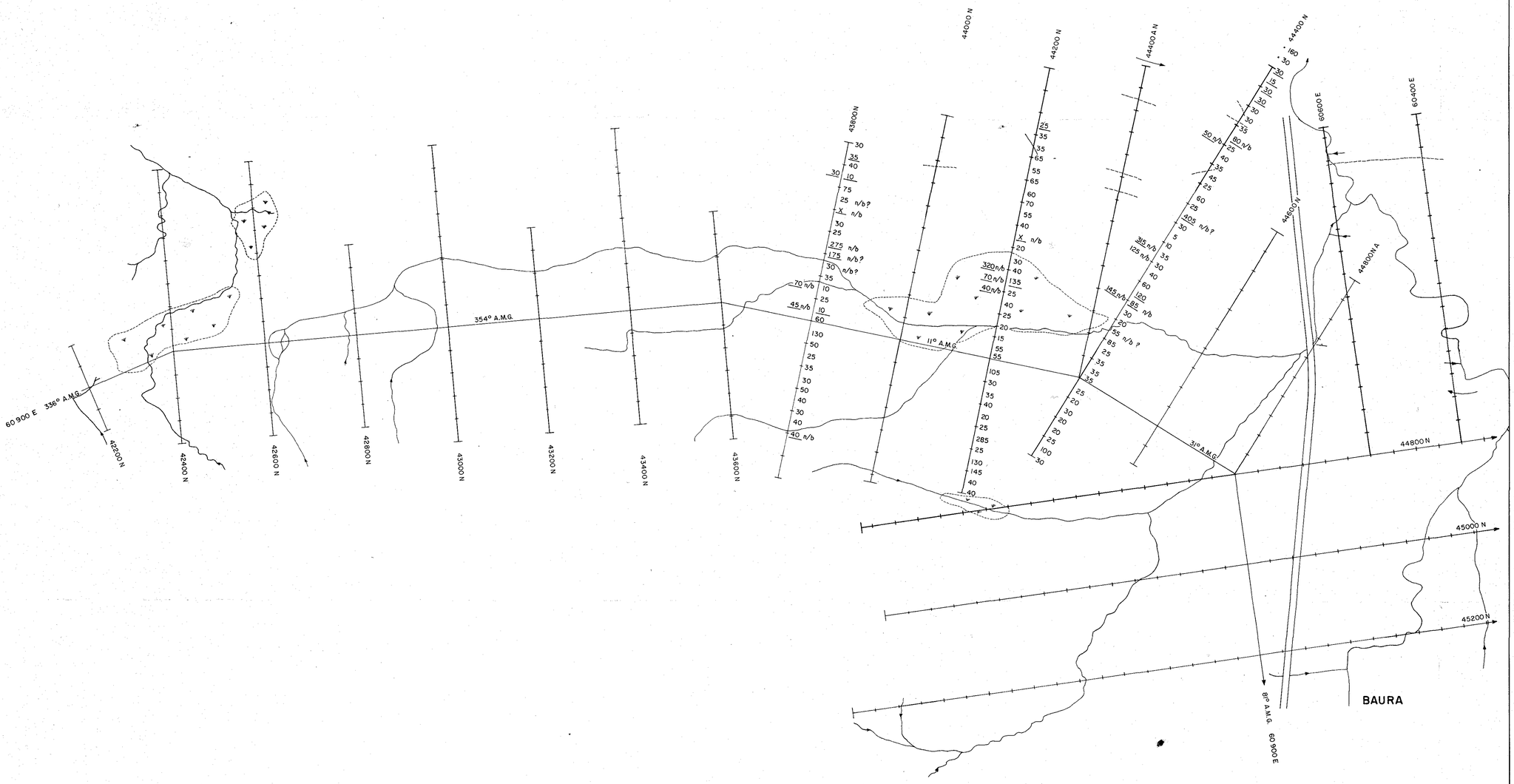
Scale: 1:5000	Survey: I. MAT.	Revised:
Reference: AI-532-	Date: 29-8-84	Ref. No. AO-532-0104
Drawn: R.J.R.	Checked:	

86-2547

5771

5771

ROSE VALLEY



LEGEND

COLOUR

pk - pink	wh white
br - brown	bk - black
bl - blue	gr - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - brecciated	ferr - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - trace
thn bd - thin bedded	int bd - inter bedded
thk bd - thick bedded	tbcl - tubicolar
vn - veins, veining	frct - fractured

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	LIM - ironstone
GRIT - grit	CLY - clay
PUG - pug	GRA - gravel

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
gn - galena	sp - sphalerite
lim - limonite	cp - chalcopyrite
cbd - carbonated	sid - silicified
c - calcite	

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

- cut grid lines
- roads
- or tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- 090° joint
- 090° joint vertical
- 090° overturned
- 090° bedding
- 090° bedding - vertical
- quarries

All Results are ppm.

n/b = Not Bedrock.

X = Less than 5 ppm.

85 GEOCHEMISTRY → Overburden

11° TN

MN

5 cm

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

032172

ROSE VALLEY GRID

BEDROCK GEOCHEMISTRY

Pb

(WACKER)

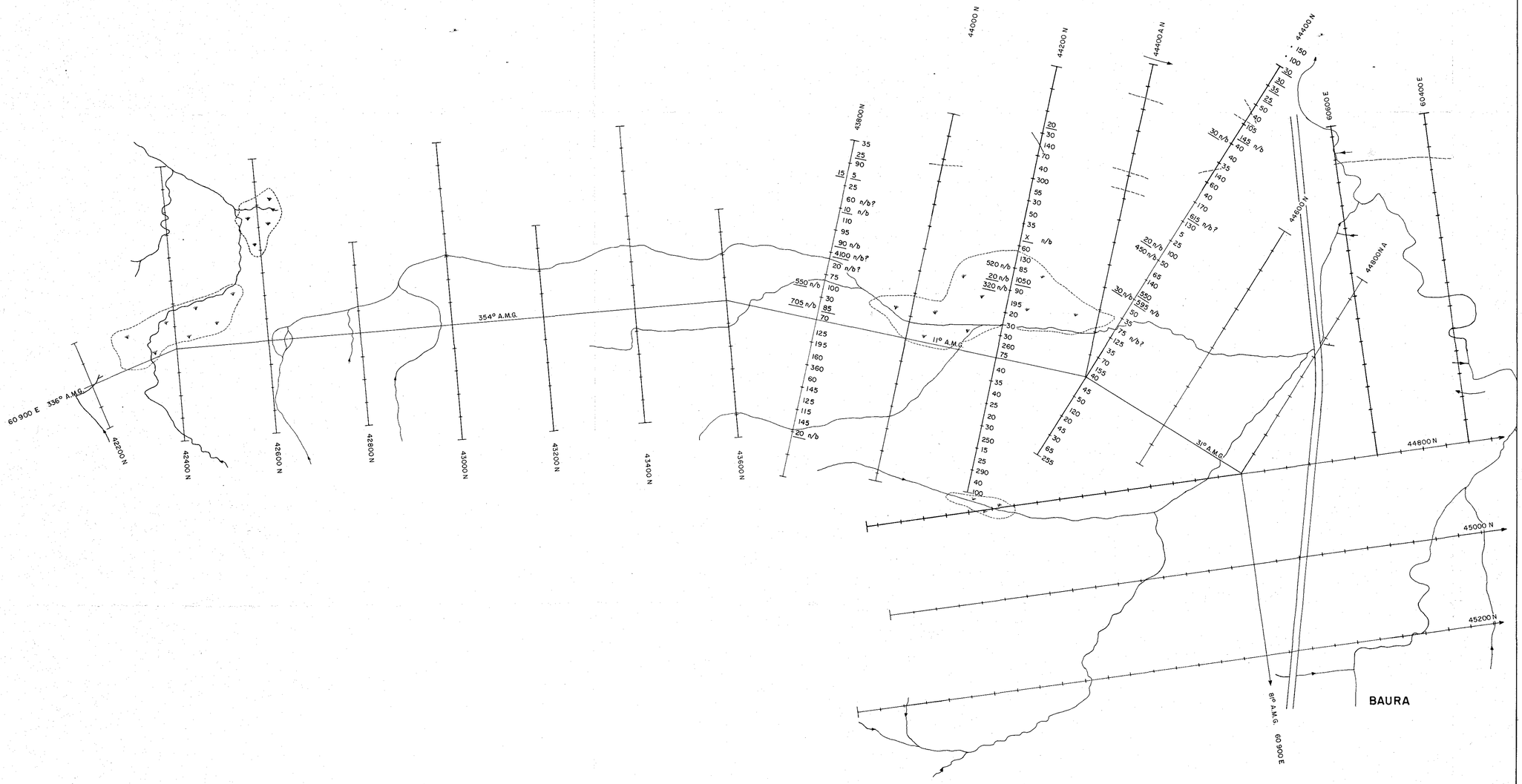
PL. 9

Scale : 1:5000	Survey: I. MAT.	Revised:
Reference: A-78-60 B	Date: 9-10-'85	REF. No. AI-532-0133
Drawn: R. J. R.	Checked:	

86-2547

5772

ROSE VALLEY



LEGEND

COLOUR

pk - pink	wh - white
br - brown	bk - black
bl - blue	gr - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - brecciated	ferr - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - trace
thn bd - thin bedded	int bd - inter bedded
thk bd - thick bedded	tbcl - tubicolar
vn - veins, veining	frct - fractured

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	I M - ironstone
GR T - grit	CLY - clay
PUG - pug	GRA - gravel

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
gn - galena	sp - sphalerite
lm - limonite	cp - chalcopyrite
cbd - carbonated	sild - silicified
c - calcite	

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sld

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- 090° joint
- 090° joint vertical
- 090° overturned
- 060/090° bedding
- 090° bedding vertical
- quarries

All Results are ppm.
n/b = Not Bedrock.
X = Less than 5 ppm.

550 Geochemistry → Overburden

11° TN MN

5 cm

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

032173

ROSE VALLEY GRID

BEDROCK GEOCHEMISTRY

Zn

(WACKER)

PL. 10

Scale : 1:5000	Survey: I. MAT.	Revised:
Reference: A-78-60 B	Date: 9-10-'85	REF. No.
Drawn: R. J. R.	Checked:	AI-532-0132

86-2547

5773

ROSE VALLEY

LEGEND

COLOUR

pk - pink
br - brown
bl - blue
gy - grey
rd - red
cr - cream
lt - light
wh - white
bk - black
gr - green
yl - yellow
or - orange
pl - pale
dk - dark

TEXTURE

fg - fine grained
mg - medium grained
cg - coarse grained
bxd - brecciated
clvd - cleaved
shrd - sheared
calc - calcareous
carb - carbonaceous
lam - laminated
xbd - cross bedded
thn bd - thin bedded
thk bd - thick bedded
vn - veins, veining
foss - fossiliferous
sil - siliceous
mic - micaceous
ferr - ferruginous
int - intense
wk - weak
v - very
pb - pebble
cb - cobble
tr - trace
interbd - interbedded
tbcl - tubicolar
frct - fractured

ROCK TYPE

SST - sandstone
LST - limestone
BX - breccia
SH - shale
QZT - quartzite
GRT - grit
PUG - pug
SLT - siltstone
DLST - dolomite
CGL - conglomerate
BSH - black shale
IRN - ironstone
CLY - clay
GRA - gravel

MINERALOGY or ALTERATION

qz - quartz
gn - galena
lm - limonite
cbd - carbonated
c - calcite
py - pyrite
sp - sphalerite
cp - chalcopyrite
sid - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g

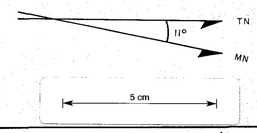
dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- 090° joint
- 090° joint vert. cc.
- 090° overturned
- 090° bedding
- 090° bedding vertica
- quarries

All Results are ppm.
n/b = Not Bedrock.
X = Less than 5 ppm.

Above 400 p.p.m.



ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

032174

ROSE VALLEY GRID

BEDROCK GEOCHEMISTRY

Ba

(WACKER)

PL. II

Scale : 1:5000	Survey: I. MAT.	Revised:
Reference: A-78-60 B	Date: 9-10-'85	REF. No.
Drawn: R. J. R.	Checked:	AI-532-0136

86-2547

5774

ROSE VALLEY

LEGEND

COLOUR

pk - pink
br - brown
bl - blue
gy - grey
rd - red
cr - cream
lt - light
wh - white
bk - black
gr - green
yl - yellow
or - orange
pl - pale
dk - dark

TEXTURE

fg - fine grained
mg - medium grained
cg - coarse grained
bxd - brecciated
clvd - cleaved
shrd - sheared
calc - calcareous
carb - carbonaceous
lam - laminated
xbd - cross bedded
thn bd - thin bedded
thk bd - thick bedded
vn - veins, veining
foss - fossiliferous
sil - siliceous
mic - micaceous
ferr - ferruginous
int - intense
wk - weak
v - very
pb - pebble
cb - cobble
tr - trace
mn bd - inter bedded
tbcl - tubicolar
fract - fractured

ROCK TYPE

SST - sandstone
LST - limestone
Bx - breccia
SH - shale
QZT - quartzite
GRT - grit
PEG - pug
SLT - siltstone
DLST - dolomite
CGL - conglomerate
BSH - black shale
MST - mudstone
CLY - clay
GRA - gravel

MINERALOGY or ALTERATION

qz - quartz
gn - galena
lm - limonite
cbd - carbonated
c - calcite
py - pyrite
sp - sphalerite
cp - chalcopyrite
sil'd - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sil'd

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- 090° joint
- 090° joint vertical
- 090° overturned
- 090° bedding
- 090° bedding vertical
- quarries

All Results are ppm.
n/b = Not Bedrock.
X = Less than 5 ppm.

TN
11°
MN

5 cm

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

032175

ROSE VALLEY GRID

BEDROCK GEOCHEMISTRY

Mn

(WACKER)

PL. 12

Scale : 1:5000	Survey: I. MAT.	Revised:
Reference: A-78-60 B	Date: 9-10-'85	REF. No.
Drawn: R. J. R.	Checked:	AI-532-0135

86-2547

5775

MYRTLE

E.L. 4/78

GRIEVES

E.L. 15/76

Professor Fault

Tasman Highway

Ridge

Ogu

Ogs

Ogl

Sc

Os

Om

Og

?Ogs

Silicification

364 000 E

361 000 E

365 000 E

60500 E
359° A.M.G.

52° A.M.G.

48400N

48600N

48800N

49000N

49200N

49400N

49600N

49800N

50000N

50200N

50400N

50600N

50800N

51000N

1:5000

351 000 N

LEGEND

COLOUR

pk - pink	wh - white
br - brown	bk - black
bl - blue	gr - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - bracciated	ferr - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - trace
tn bd - thin bedded	in bd - inter bedded
tk bd - thick bedded	tbcl - tubicolar
vn - veins, veining	frct - fractured
ms - massive	xyst - crystalline

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	LIM - ironstone
GRIT - grit	CLY - clay
PUG - pug	GRA - gravel

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
gn - galena	sp - sphalerite
lim - limonite	cp - chalcopyrite
cbd - carbonated	sil'd - silicified
c - calcite	ba - barite

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sil'd.

TOPOGRAPHICAL

- cut grid lines
- roads
- or tracks
- tramways
- power lines
- or rivers, creeks
- swampy area
- Costean
- 090° joint
- 090° joint - vertical
- 090° overturned
- 090° bedding
- 090° bedding - vertical
- quarries
- 090° cleavage
- 356° cleavage - vertical
- 140° 356° vein (barite) with dip
- up abrupt break of slope
- ZM 1003 Diamond Drill Hole

LEGEND

Ps	Permian Sediments
Sc	Crotty Quartzite
Ogu	Upper Limestone
Ogs	Siltstone Member
Ogl	Lower Limestone
GORDON LIMESTONE	Undifferentiated Og
Os	Siltstones
Om	Moina Sandstone
~~	Fault - approximate
~?~?~	Fault - inferred
————	Lithological boundary - approximate
—?—?—	Lithological boundary - inferred

TN 11° GN MN

SUPERCEDES A1-532-0052

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

5 cm

MYRTLE GRID

032176

GEOLOGY (INTERP.)

PL. 13

Scale 1:5000	Survey: I.MAT.	Revised:
Reference: A-78-60B	Date 4-6-'85	REF. No. A1-532-0120
Drawn: R.J.R.	Checked: I.MAT.	

86-2547

5776

LEGEND

Ps		Permian Sediments
Sc		Crotty Quartzite
Ogu	GORDON LIMESTONE	Upper Limestone
Ogs	GORDON LIMESTONE	Siltstone Member
Ogl	GORDON LIMESTONE	Lower Limestone
Os		Siltstones
Om		Moina Sandstone
∿∿∿		Fault - approximate
∿?∿?∿		Fault - inferred
———		Lithological boundary - approximate
--?--?--		Lithological boundary - inferred

BAURA

GRIEVES

MYRTLE

RIDGE

Section Line Fig 8

Gravels

Fault

Silicification

TRAMWAY (abandoned)

D.M.R GRAVEL QUARRY

D.M.R GRAVEL QUARRY

SUPERCEDES AI-532-0051

LEGEND

COLOUR

pk - pink	wh - white
br - brown	bk - black
bl - blue	gr - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - brecciated	ferr - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - trace
th bd - thin bedded	in bd - inter bedded
tk bd - thick bedded	tbcl - tubicolar
vn - veins, veining	frct - fractured

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	LIM - ironstone
GRIT - grit	CLY - clay
PUG - pug	GRA - gravel

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
gn - galena	sp - sphalerite
lim - limonite	cp - chalcopyrite
cbd - carbonated	sid - silicified
c - calcite	

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g

dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks (or)
- tramways
- power lines
- rivers, creeks (or)
- swampy area
- 090°/60° joint
- 090° joint - vertical
- 090° overturned
- 090°/60° bedding
- 090° bedding - vertical
- quarries
- ZG 1001 Diamond Drill Hole
- Costean

GN TN TP MN

ELECTROLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN | TAS.

032177

GRIEVES GRID

GEOLOGY (INTERP.)

PL. 14

Scale 1:5000	Survey I.MAT.	Revised
Reference A-78-60B	Date 4-6-'85	REF No. AI-532-0119
Drawn R.J.R.	Checked	

86-2547 5777

BAURA

GRIEVES

ROSE VALLEY

Sc

Ogu

Ogs

Ogl

Og

Ps

Om

Os

RIDGE

SYNCLINE

ANTICLINE

FAULT

5 350000

5 349000

5 348000

5 347000

598000 E

598600 E

599200 E

599800 E

600400 E

601000 E

601600 E

602200 E

602800 E

603400 E

603000 E

45800 N

46200 N

46600 N

47000 N

47400 N

47800 N

48200 N

48600 N

48800 N

44800 AN

44600 AN

44400 AN

44200 N

44000 N

59007 dk gy DLST, ol LIM, pisolitic

59008 dk gy SLT, very fossiliferous

59009 dk gy SLT, fg, mor fossils

59010 dk gy CLY, mor py

59011 dk CLY, mor py

59012 dk gy CLY

59013 blue CLY, 1-5% py

59014 dk gy CLY

59015 dk gy CLY

58254 dk gy vfg sil SST

58253 dk gy fg sil SST

58252 dk gy slty DLST

58251 dk gy SLT Bx siliceous

58250 dk gy SLT, fg int c vn

58249 dk gy vfg sil CGL, pb (plus BSH)

58248 dk gy SLT, fg int c vn

58247 dk gy SLT, fg int c vn

58246 dk gy SLT, fg int c vn

58245 dk gy SLT, fg int c vn

58244 dk gy SLT, fg int c vn

ZEEHAN-STRAHAN ROAD

PYRAMID CREEK

TRAMWAY

ABANDONED TRAMWAY

LITTLE HENTY RIVER

1800E 1700E 1600E 1500E 1400E 1300E 1200E 1100E 1000E

3500N 3400N 2900N 2800N 2700N 2600N 2500N 2400N 2350N 2250N 2100N 2000N 1900N 1800N 1700N 1600N 1500N 1400N 1300N 1200N 1100N 1000N 900N 800N 700N

5 396 000

364 000

LEGEND

COLOUR

pk - pink	wh - white
br - brown	bk - black
bl - blue	gr - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - brecciated	fer - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - trace
th bd - thin bedded	inbd - inter bedded
tk bd - thick bedded	

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	LIM - ironstone
GRIT - grit	CLAY - clay
PUG - pug	

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
gn - galena	sp - sphalerite
lim - limonite	cp - chalcopyrite
cbd - carbonated	sil - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sil'd

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- 090° joint
- 090° joint - vertical
- 090° overturned
- 090° bedding
- 090° bedding - vertical
- quarries

n/b = not bedrock

X = less than 5 ppm

815 Geochemistry → Overburden

- 200 – 400 ppm.
- 400 – 800 ppm.
- > 800 ppm.

TN MN 11°

032179

ELECTOLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN ,TAS.

5 cm

PYRAMID GRID

WACKER GEOCHEMISTRY

Pb

PL. 16

Scale: 1:2500	Survey: I. MAT.	Revised:
Reference: M83-2053	Date: 12-7-'85	Ref. No. AO-532-0122
Drawn: R.J.R.	Checked:	

5779

86-2547

5779

LEGEND

COLOUR

pk - pink	wh - white
br - brown	bk - black
bl - blue	gn - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - brecciated	ferr - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - trace
thn bd - thin bedded	inter bedded
thk bd - thick bedded	

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	LMst - ironstone
GRIT - grit	CLAY - clay
PUG - pug	

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
gn - galena	sp - sphalerite
lim - limonite	cp - chalcopyrite
cbd - carbonated	sid - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- joint
- joint - vertical
- overturned
- bedding
- bedding - vertical
- quarries

n/b = not bedrock.

X = less than 5 ppm.

1395 Geochemistry → Overburden.

- 300 – 600 ppm.
- 600 – 1200 ppm.
- > 1200 ppm.

TN MN 11°

032180

ELECTOLYTIC ZINC CO. OF A'SIA LTD.

PROJECT: EL 4/78 ZEEHAN ,TAS.

5 cm

PYRAMID GRID

WACKER GEOCHEMISTRY

Zn

PL. 17

Scale: 1:2500	Survey: I. MAT.	Revised:
Reference: M83-2053	Date: 12-7-85	Ref. No. AO-532-0123
Drawn: R. J. R.	Checked:	

86-2547

5780

5780

LEGEND

COLOUR

pk - pink	wh - white
br - brown	bk - black
bl - blue	gr - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - brecciated	fer - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - tricpe
thn bd - thin bedded	inbd - inter bedded
thk bd - thick bedded	

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	LIM - ironstone
GRIT - grit	CLAY - clay
PUG - pug	

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
gn - galena	sp - sphalerite
lim - limonite	cp - chalcopyrite
cbd - carbonated	sid - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e.g.

dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- joint
- joint - vertical
- overturned
- bedding
- bedding - vertical
- quarries

n/b = not bedrock.

X = less than 5 ppm.

Above 400 ppm Ba

032181

ELECTOLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN ,TAS.

5 cm

PYRAMID GRID

WACKER GEOCHEMISTRY

Ba

P.L. 18

Scale: 1:2500	Survey: I. MAT.	Revised:
Reference: M83-2053	Date: 12-7-'85	Ref. No. AO-532-0126
Drawn: R. J. R.	Checked:	

5781

86-254

5781

LEGEND

COLOUR

pk - pink	wh - white
br - brown	bk - black
bl - blue	gr - green
gy - grey	yl - yellow
rd - red	or - orange
cr - cream	pl - pale
lt - light	dk - dark

TEXTURE

fg - fine grained	foss - fossiliferous
mg - medium grained	sil - siliceous
cg - coarse grained	mic - micaceous
bxd - brecciated	ferr - ferruginous
clvd - cleaved	int - intense
shrd - sheared	wk - weak
calc - calcareous	v - very
carb - carbonaceous	pb - pebble
lam - laminated	cb - cobble
xbd - cross bedded	tr - trace
th bd - thin bedded	in bd - inter bedded
tk bd - thick bedded	

ROCK TYPE

SST - sandstone	SLT - siltstone
LST - limestone	DLST - dolomite
BX - breccia	CGL - conglomerate
SH - shale	BSH - black shale
QZT - quartzite	IM - ironstone
GRIT - grit	CLAY - clay
PUG - pug	

MINERALOGY or ALTERATION

qz - quartz	py - pyrite
ga - galena	sp - sphalerite
lim - limonite	cp - chalcopyrite
cbd - carbonated	sid - silicified

ORDER

Colour, Texture, Rock Type, Mineralogy or Alteration, Fossils

e g

dk gy mg foss SST or gy calc SH py or pl gy LST sid

TOPOGRAPHICAL

- cut grid lines
- roads
- tracks
- tramways
- power lines
- rivers, creeks
- swampy area
- joint
- joint - vertical
- overturned
- bedding
- bedding - vertical
- quarries

n/b= not bedrock.

X = less than 5 ppm.

All results are ppm unless shown otherwise.

- 500 - 1000 p.p.m.
- 1000 - 2000 p.p.m.
- > 2000 p.p.m.

TN MN 11°

032182

ELECTOLYTIC ZINC CO. OF A'ASIA LTD.

PROJECT: EL 4/78 ZEEHAN ,TAS.

5 cm

PYRAMID GRID

WACKER GEOCHEMISTRY

Mn

PL. 19

Scale: 1:2500	Survey: I. MAT.	Revised:
Reference: M83-2053	Date: 12-7-'85	Ref. No. AO-532-0125
Drawn: R. J. R.	Checked:	

5782

86-2547

5782