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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
West Coast Mines

EXPLORATION LICENCE 51/80 (MISERY FLAT)

REPORT FOR SIX MONTHS ENDED
8TH NOVEMBER, 1981

J. Nyvlt,
Geologist.

Report No. 139

81-1654

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<u>DISTRIBUTION:</u>	E.Z., Rosebery	(2)
	" Sydney	(1)
	" Melbourne	(1)
	Mines Dept.	(1)

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1. INTRODUCTION

As part of a long term interest in the West Coast of Tasmania, E.Z. has broadened its exploration outlook in the area to determine the potential for other mineralisation types and non-base metal commodities. It is considered that the rocks in E.L. 51/80 have potential for two mineralisation types, namely:-

- i) Vein type tin mineralisation of the Queen Hill type.
- ii) Disseminated bulk low grade gold mineralisation of the Carlin type.

These two exploration targets represent hitherto unknown and untested styles of mineralisation in the area, an area which has been relatively unexplored.

The exploration programme undertaken is at a grass-roots level and is primarily aimed at locating areas of interest where further detailing may be warranted. The programme involves:-

- i) Office study into exploration work carried out in the area by other companies, research of Mines Department records and compilation of all relevant data.
- ii) A photo-geological interpretation of the area and preliminary mapping.
- iii) A landsat linear study.
- iv) An aerial magnetic survey.
- v) A geological mapping and stream sediment sampling programme.
- vi) Detailed gridding to follow up magnetic and stream geochemistry anomalies.

During the period of reporting (8th May to 8th November, 1981) only a small part of this programme was completed. Work on the licence was limited by winter weather and assignment of staff to other areas.

2. LAND TENURE

Exploration Licence 51/80 was granted to E.Z. on the 8th May, 1981 and is held solely by E.Z.. The location of the licence and coordinates of the licence boundaries can be found in Figure 2.1. and Table 2.2., respectively. The licence covers 155 sq. km..

3. ACCESS

Main access is provided by the Lyell Highway which is a sealed all weather road. The highway cuts across the north-east and passes through the southern half of the licence. The Lowana Road, which follows the path of the old Mt. Lyell Railway, provides access along the southern boundary of the licence. This road is unsealed but is currently being upgraded by local business interests. The north-west corner of the licence is covered by a network of forestry tracks. In the northern part of the licence there is a long network of logging tracks and these connect to the Lyell Highway. Unfortunately, the tracks are largely amenable to foot access only.

4. TOPOGRAPHIC BASE PLANS

4.1. Standard Plans.

The licence is covered by seven of a set of eight A0 size, 1:10,000 standard E.Z. topographic plans which cover both E.L. 51/80 and the adjoining SPL 806 (held by Tikon International Pty. Ltd. but included in a Joint Venture with E.Z.).

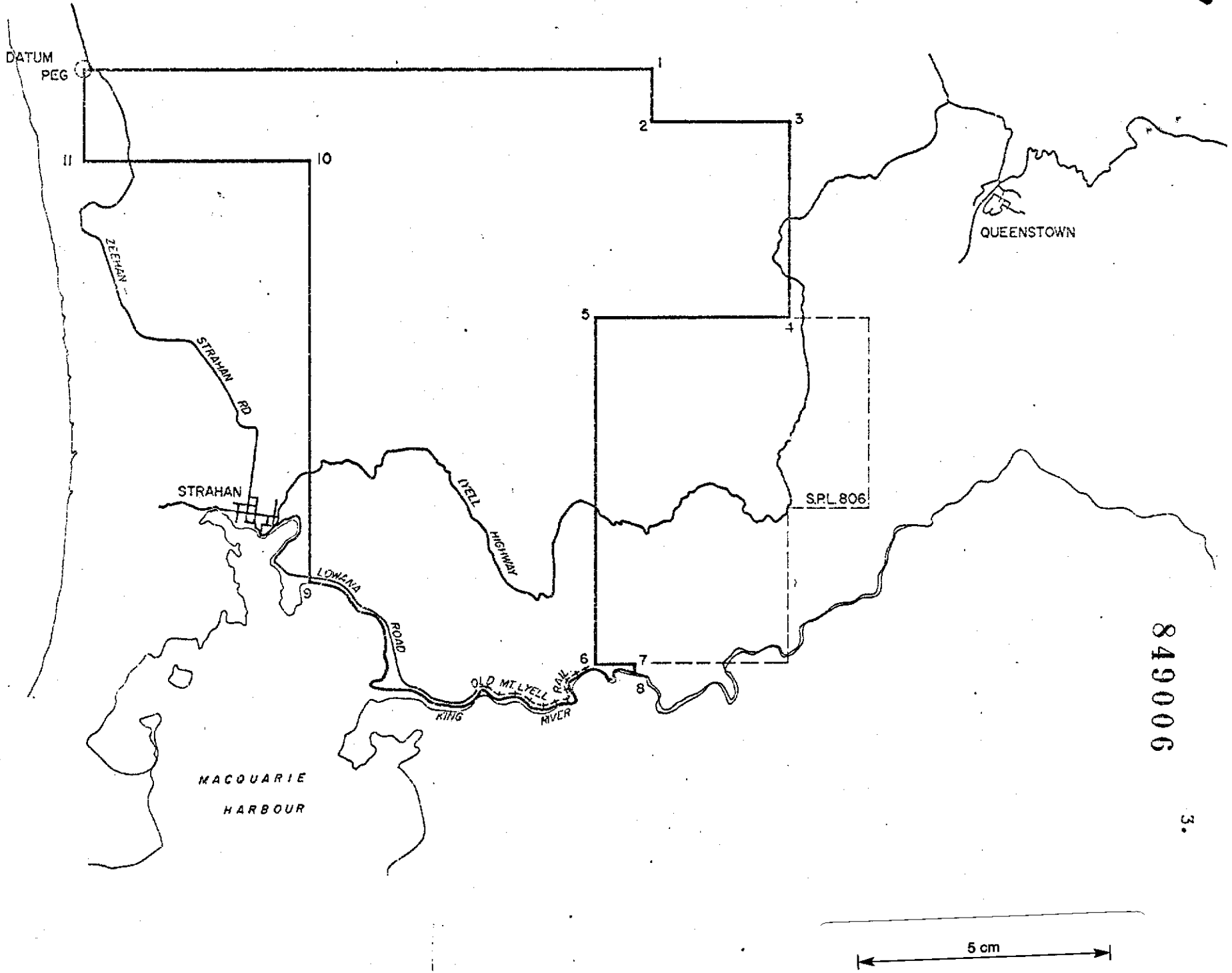


FIGURE 2.1
Scale 1:50 000

PLAN SHOWING THE BOUNDARIES OF
EXPLORATION LICENCE 51/80
MISERY FLAT

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TABLE 2.2. - LICENCE BOUNDARY CO-ORDINATES

(Refer to Figure 2.1. for the location of the numbered corners)

<u>Corner No.</u>	<u>Northing A.M.G.</u>	<u>Easting A.M.G.</u>
Datum Peg	5,343,350	356,775
1	5,343,350	371,480
2	5,342,005	371,480
3	5,342,005	375,000
4	5,337,000	375,000
5	5,337,000	370,000
6	5,328,000	370,000
7	5,328,000	371,000
8	5,327,800	371,000
9	5,330,200	362,580
10	5,340,985	362,580
11	5,340,985	356,775

The area covered and layout of the sheets is shown in Figure 4.1.. These plans were prepared from enlargements of the 1:15,840 and 1:20,000 scale Lands Department topographic maps. In addition, these plans have been modified for use as stream sediment plans and limited topographic plans (scale 1:10,000).

4.2. Special Plans

To conveniently cover the licence in one sheet a 1:50,000 topographic map was prepared from an enlargement of the 1:100,000 Lands Department topographic maps. The 1:50,000 scale map covers both E.L. 51/80 and S.P.L. 806.

5. GEOLOGY

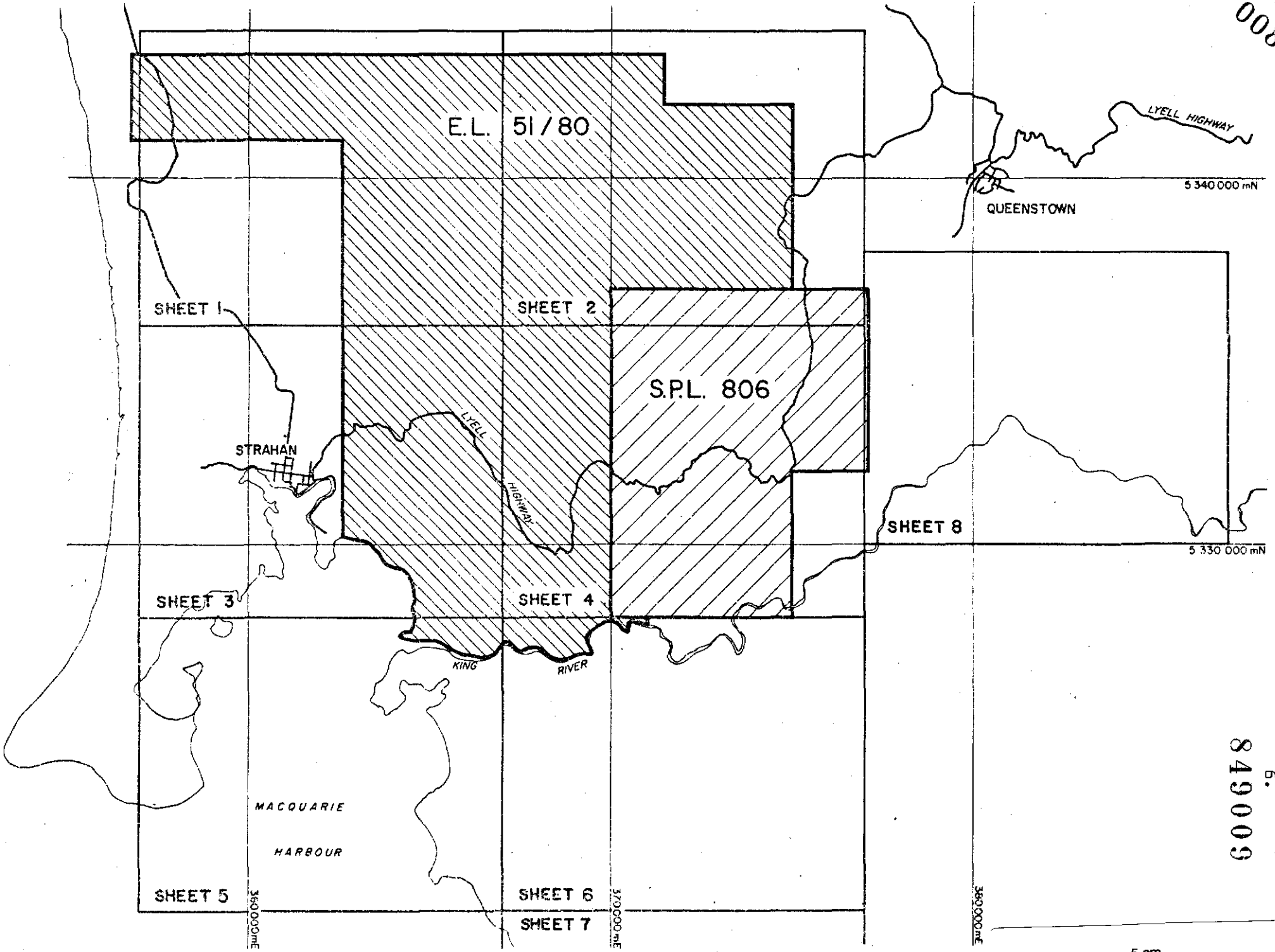
Work on the licence has been limited to preliminary field mapping and gaining familiarisation with the regional geology. E.L. 51/80 covers most of the northern portion of a 15-20 km wide structural basin. The basin contains rocks of the Eldon Group Correlate which range in age from Ordovician to Devonian. The licence area is typically rugged and deeply incised except for the north-west corner which grades into relatively flat button grass topography.

6. GEOCHEMISTRY

During preliminary field mapping, four rock chip samples and two tailings samples were collected. All values were low except for the Cu and As values from one of the tailings samples. The values returned are as follows (values in ppm unless specified):-

See attachment

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5 cm

FIGURE 4.1
Scale 1:150 000

LAYOUT OF STANDARD 1:10000 SCALE
TOPOGRAPHIC PLANS
COVERING F1 51/80 & S.P.L. 806

<u>Sample Type</u>	<u>Fe</u>	<u>Mn</u>	<u>Cu</u>	<u>Zn</u>	<u>As</u>	<u>Pb</u>	<u>Sb</u>	<u>Au</u>
Rock chip	6450	10	80	75	16	180	4.0	0.016
" "	9850	5	20	30	23	50	4.0	0.016
" "	5450	50	20	10	1	10	1.0	-
" "	4450	15	15	10	1	10	1.0	0.072
Tailings	8.9%	-	1100	10	1200	30	1.0	-
"	1.5%	20	30	15	19	-	1.0	0.064

Literature research indicates that the regional stream sediment work done by Pickand Mather revealed anomalous Pb-Zn values near the Queenstown Airport in the Bell Shale Correlate. The geochemical anomaly was not adequately explained.

7. GEOPHYSICS

No work carried out during this reporting period.

8. FUTURE EXPLORATION

Future exploration of the licence will be aimed at completing the work programme outlined in Section 1. Completion of the first pass geological mapping and geochemical sampling programme will have a high priority in the coming field season. A detailed photo-geological study is currently being conducted by a consulting group.

Negotiations have been made with the Tasmanian Mines Department so that access may be gained to data from their regional aerial magnetics survey of the West Coast of Tasmania. When it becomes available, this data will be assessed and if necessary, some in-fill lines will be flown.

APPENDIX A:SUMMARY OF PREVIOUS EXPLORATION

It is thought appropriate that a list of previous exploration carried out in the area be included in the first report for the licence as a reference source.

GEOPHYSICS1. Aerial Magnetic Surveys - Ground Magnetic Surveys

300 Results of Exploration Programme, Lynch Creek area
E.L. 47/70. File :58/37.

27 Lyell - E.Z., West Coast Mines Aero Mag Survey.
File: (Regional 6) Map Store.

2. Scintillometer Surveys

321 Howard L.E., 1956 - Airborne Scintillograph Survey, Tasmania
1955. Rec. Bur. Min. Resc. Geol. Geophys. Aust. 1956/88, 99.

78 Scott B., 1957 - Airborne E.M. Surveys.
File: 65/13.

76 Boniwell J.B., 1959 - Geophysical Surveys.
Howard File: 36/1.

3. Gravity Surveys

76

NOTE: Prefix number refers to "Applied Geophysics in Tasmania - Summary
of Surveys". Leaman ^{0^a} K., Tasmanian Department of Mines, 1980.

GEOCHEMISTRY

1966, Pickands Mather Regional Stream Sediment Survey of North-Western Tasmania.

E.Z. File: 57/5 (g)

GEOLOGY

Geological mapping of area by P.W. Baillie et al on Strahan Sheet 7913N at 1:50,000.

Geological mapping by Mr. Solomon at 1:31,680 scale. 2 plans held at Rosebery.

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**ELECTROLYTIC ZINC COMPANY
OF AUSTRALASIA LIMITED**

WEST COAST MINES
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TELEGRAMS AND CABLES
'ZINCORE' ROSEBERY
REF: IRMcD/amd

Please address all correspondence to:
"The Manager"

REFER TO P. 5-7.

9th February, 1982

Director of Mines,
Department of Mines,
G.P.O. Box 124-B,
HOBART, 7001.

J of M <i>Am</i>	A.O.	<i>8</i>	E.O.	D.S.M.E
Received Answered			11 FEB 1982	
DEPT. OF MINES				E & IL
REF. No. <u>1131/82</u>				<u>7</u>

ATS

Dear Sir,

E.L. 51/80 (Misery Flat)

In reply to your letter of 8th January, 1982, your ref. TCR 81-1654, I can now supply the location data requested on the reported samples.

All six samples were collected from a small area around the old Maquarie Au workings situated just west of the Queenstown-Strahan Road. The area is located around A.M.G. co-ordinates 5,377,900N 375,000E.

Attached is a sample data sheet giving all the sample details.

Yours faithfully,

G.B. Kremmer
per
G.B. Kremmer,
Manager, West Coast Mines

Attachment:

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

ROCK SAMPLE LEDGER

PROJECT: EL 51/80 Misery FLAT LOCALITY: Queenstown - Strahan Rd.

COLLECTED BY: I Mill

DATE: 23-1-61.

Sample Number	A.M.G.Co-ordinates		Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section:				Metal Content (p.p.m. unless specified)							
	N	E				T or P	By	Reference	Rock-type (Microscopic)	Cu	Pb	Zn	Fe	Mn	As	Sb	Au
38749	5,337,900	375,000	Rock chip	Grey shale, slightly pyritic from outcrop to west of Strahan-Q'town Rd.						80	180	75	6450	10	16	6	0.016
38750	5,337,900	375,000	Rock chip	Slightly pyritic shale from outcrop just west of Strahan-Q'town Road						20	50	30	9850	5	23	6	0.016
38751	5,337,900	375,000	Rock	White Quartzite with minor surficial Pyrite From the MacQuarie AV workings west of Strahan Q'town Road.						20	10	10	5450	50	1	1	N.D.
38752	5,337,900	375,000	Rock chip	Cleaved slate from Strahan-Q'town Rd.						15	10	10	4450	15	1	1	0.072
38753	5,337,900	375,000	Tailings?	Pyritic material from the MacQuarie prospect west of Strahan-Q'town Rd.						1100	30	10	8.9%	N.D.	1200	1	N.D.
38754	5,337,900	375,000	Rock chip	Fine grained white limonitic Sandstone from Strahan-Q'town Road.						30	N.D.	15	1.5%	20	19	1	0.064