

000

J.M.	A.O.	C.G.	E.O.	...
S. DIR.				REGISTER
- 3 JUL 1984				E & IL
DEPT. OF MINES				
REF. No. 6658/84				

**MICROFILMED**

E.L. 5/83

LITTLE HENTY AREA

ANNUAL REPORT 1983-84

**OPEN FILE**

By: P. Komysan

June, 1984

Geologist

*P. Komysan*

Circulation: RGC (1)

Tasmanian Mines Department (1)

001

CONTENTS

Page No.

SUMMARY

1.	INTRODUCTION	1.
2.	EXPENDITURE	1.
3.	PREVIOUS WORK	1.
4.	WORK COMPLETED 1983-84.	2.
5.	CONCLUSIONS AND RECOMMENDATIONS.	2.
6.	REFERENCES	3.

APPENDIX

1. Expenditure since licence was pegged in February, 1983.
2. Sample descriptions and assays.

LIST OF FIGURESFigure

1. Locality Plan
2. Stream sediment Geochemistry, Sn 1:10,000
3. Stream sediment Geochemistry, As 1:10,000
4. Stream sediment Geochemistry, WO<sub>3</sub> 1:10,000
5. Stream sediment Geochemistry, Cu 1:10,000
6. Stream sediment Geochemistry, Pb 1:10,000
7. Stream sediment Geochemistry, Zn 1:10,000

003

SUMMARY

During 1983-84, a stream sediment sampling program was completed over pre-Devonian rocks, within the northern part of E.L. 5/83. Assays indicate the lack of any significant outcropping base metal or tin mineralization within the drainage area sampled.

Previous work has indicated that there is insufficient room on the E.L. for there to be an economic mineral sands deposit.

It is therefore recommended that no further work be carried out on this licence area.

**GOLD FIELDS EXPLORATION PTY. LIMITED**

004

1. INTRODUCTION

E.L. 5/83 covers a 34 sq. km. area south of Trial Harbour and includes a significant proportion of Ocean Beach (See Figure 1). The area was considered to have potential for mineral sands deposits and stanniferous carbonate replacement mineralization within pre-Devonian rocks. The latter only outcrop within the northern part of the licence.

Work during 1983-84 concentrated on stream sediment sampling over the area of pre-Devonian rocks during January-February.

2. EXPENDITURE

Expenditure on E.L. 5/83 since the licence was pegged in February, 1983 amounts to \$5,402.

Expenditure details are listed in Appendix 1

3. PREVIOUS WORK

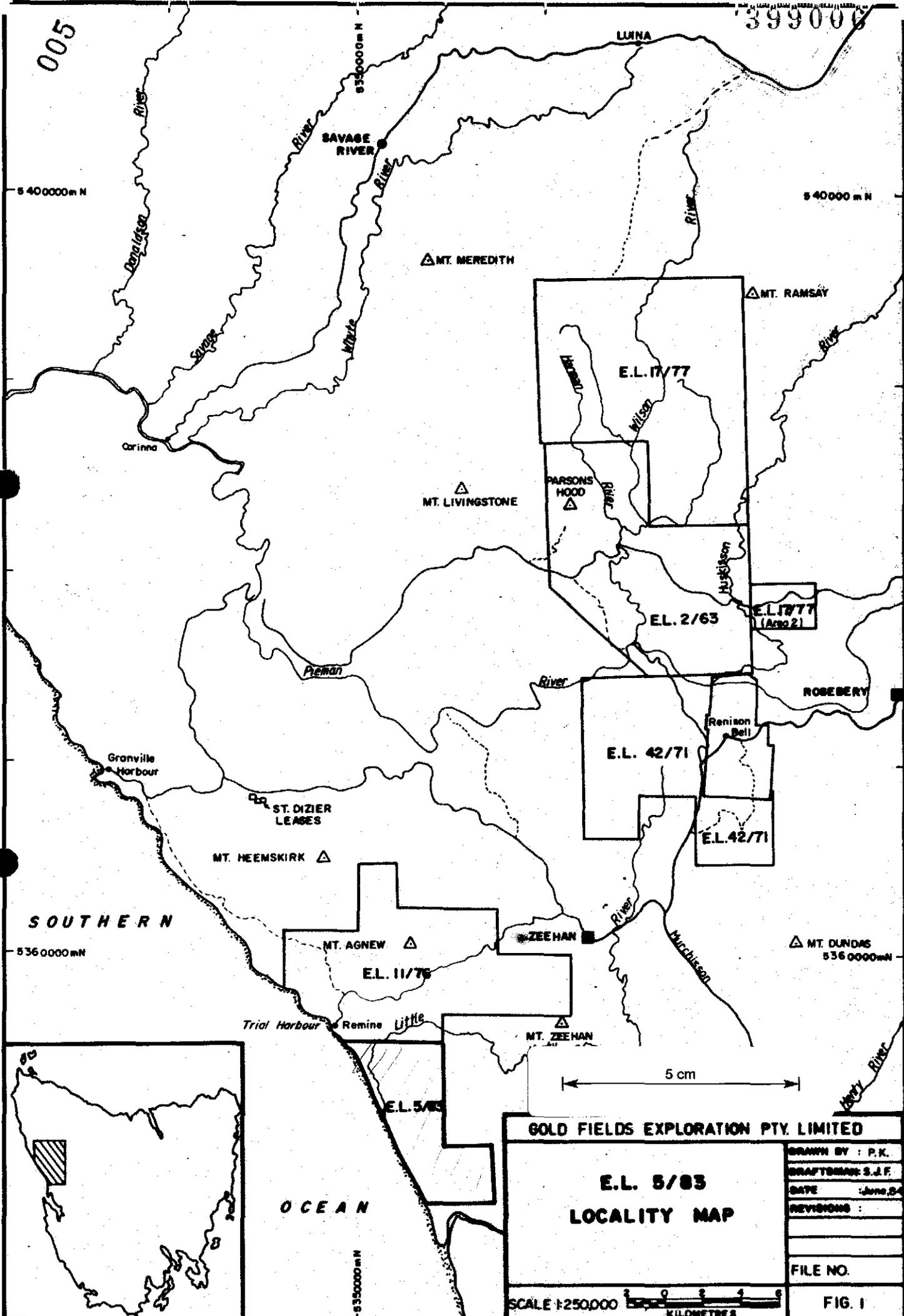
No early workings are recorded within this area. Work within this area by various companies has previously concentrated on mineral beach and dune sand deposits.

A Gold Fields Exploration investigation report by P. Holyland (1983) concluded that there is insufficient room for an economically viable mineral sand deposit within this area.

The only recorded attempt to look for stanniferous carbonate replacement mineralization within this area was by Geophoto who collected 24 soil samples within the Fen Creek valley during August, 1971 (Discala, L., 1974). The samples were taken on a button grass plain, interpreted to overlie Ordovician Limestone, just west of the north east corner of E.L. 5/83. All the samples were assayed for Pb, Zn and Ag and showed values generally below detection limit,

005

399000



<b>GOLD FIELDS EXPLORATION PTY. LIMITED</b>	
<b>E.L. 5/83 LOCALITY MAP</b>	
DRAWN BY : P.K.	
DRAFTSMAN: S.J.F.	
DATE : June 84	
REVISIONS :	
FILE NO.	
SCALE 1:250000	
KILOMETRES	
FIG. 1	

006

and maximum values of 140 ppm Pb and 15 ppm Zn.

4. WORK COMPLETED 1983-84

A program of stream sediment sampling was undertaken in the northern part of the licence area. Streams draining post-Devonian rocks to the south were not sampled. Samples were dried and sieved to -80#, then assayed for Sn, As,  $WO_3$ , Cu, Pb, Zn. Panned concentrates were crushed whole and assayed for Sn, As, Cu, Pb, Zn, Cr and Au. Two rock chip samples were taken and also assayed for Sn, As,  $WO_3$ , Cu, Pb and Zn. All assay data is tabulated in Appendix 2 and presented on Figures 2-7.

The results do not highlight any area of interest. Stream sediment assays for As,  $WO_3$ , Pb and Cu were below 20 ppm. The highest values for Zn ( $\leq 110$  ppm) are considered to be within background. Sn values of up to 270 ppm within a panned concentrate and 80 ppm within a stream sediment are not considered sufficiently elevated to warrant follow up.

5. CONCLUSIONS AND RECOMMENDATIONS

1. Assays of stream sediment samples have indicated the lack of any significant outcropping base metal or Sn mineralization within the drainage area sampled.
2. Post-Devonian rocks to the south of the sampled area are not considered prospective.
3. The mineral sands potential within E.L. 5/83 is low.
4. It is therefore recommended that no further work be carried out and that the licence be relinquished.

007

6. REFERENCES

Discala, L., 1974: Final report on the Heemskirk Area of E.L. 7/68 Western Tasmania. An unpublished report prepared by Geophoto Resources Consultants for Texius Development Pty. Ltd.

Holyland, P., 1983: Little Henty Beach Sands, a G.F.E.L. Memorandum.

008

APPENDIX 1

Expenditure on Little Henty Area, E.L. 5/83

since licence was pegged to end May, 1984

009

EXPENDITURE

\$

GEOLOGY

- Salaries	1,932
Salary on Costs	97
Transport	326
Miscellaneous	175
Outside Contractors	622
Travel	510
Stores	<u>273</u>
	<u>3,935</u>

GEOCHEMISTRY

- Transport	713
Assays	<u>30</u>
	<u>743</u>

LAND ACQUISITION

- Miscellaneous	<u>315</u>
-----------------	------------

MOTOR VEHICLE EXPENSES409

Total	<u><u>5,402</u></u>
-------	---------------------

010

APPENDIX 2

Sample Descriptions and assays

011

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: P. K.

PROJECT:

PROSPECT: Little Huntly

SAMPLE STORAGE REQ'D:

LABORATORY: RENISON

DATE DISPATCHED: FEB '60

1:250,000 SHEET:

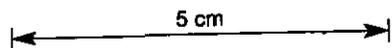
TYPE OF SAMPLE: STREAM SEGS

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES					
				S <sub>n</sub>	A <sub>s</sub>	W O <sub>2</sub>	C <sub>u</sub>	Pb	Zn
7959	5,355,180N	351,890E	sandstone gravel + fine sand + minor humus	<10	<10	10	15	20	90
7960	5,355,220N	351,890E	sandstone gravel	20	<10	<10	10	<10	<10
7961	5,355,140N	351,920E	ssstone gravel	<10	<10	<10	5	10	<10
7966	5,354,850N	350,600E	very fine sand + humus	40	<10	<10	20	50	60
9800	5,354,880N	353,550E	quartz sand + 20% humus	30	<10	10	25	<10	10
9801	5,354,630N	352,650E	quartz sand	40	<10	<10	25	<10	10
9802	5,354,650N	352,690E	pink gry quartz sand	10	<10	<10	25	<10	20
9803	5,354,450N	353,150E	pink quartz gravel	20	<10	<10	25	<10	20
9804	5,354,250N	353,550E	ss, quartz gravel + 50% humus	90	<10	10	<5	<10	20
9805	5,354,020N	353,800E	quartz gravel	10	<10	10	10	<10	110
9807	5,354,080N	353,850E	quartz sand	30	<10	<10	25	<10	10
9808	5,354,820N	353,340E	? fine gry sand + 10% humus	20	<10	<10	25	<10	10
9809	5,354,200N	354,080E	fine gry sand + 5% humus	20	<10	10	25	40	20
9810	5,354,320N	354,090E	fine gry sand + 5% humus	<10	<10	10	25	<10	<10
9811	5,354,530N	354,250E	50% clay, 50% humus	<10	<10	<10	25	<10	10
9812	5,354,600N	354,700E	gry qtz sand 5% humus	20	<10	<10	25	20	80
9813	5,353,850N	353,780E	ss, cony gravel	20	<10	<10	25	10	50
9814	5,353,720N	353,400E	qtz gravel	20	<10	10	25	<10	10
9815	5,353,700N	353,450E	qtz gravel	60	<10	<10	25	<10	20



399012



S O U T H E R N

O C E A N

399014

- Samples
- Panned Concentrate
  - ~ Stream Sediment
  - \* Rock Chip

ZEEHAN C/2	ZEEHAN D/1
ZEEHAN C/4	ZEEHAN D/3

RENISON LIMITED  
**ZEEHAN C/4**  
**STREAM SEDIMENT GEOCHEMISTRY**  
**TIN IN P.P.M., GOLD IN P.P.M.**

SCALE: 1:10,000 METRES

DRAWN	P.K.
TRACED	D.B.
DATE	June, 84
SCALE	1:10,000
DRAWING No.	84-2158
	<b>2</b>

S O U T H E R N

O C E A N



- Samples**
- Panned Concentrate
  - Stream Sediment
  - \* Rock Chip

ZEEHAN C/2	ZEEHAN D/1
ZEEHAN C/4	ZEEHAN D/3

RENISON LIMITED  
**ZEEHAN C/4**  
**STREAM SEDIMENT GEOCHEMISTRY**  
**ARSENIC IN P.P.M.**

SCALE: 1:10,000 METRES

DRAWN	P.K.
TRACED	D.B.
DATE	June, 84
SCALE	1:10,000
DRAWING No.	84-2158
	<b>3</b>

E.L. 5/83

S O U T H E R N

O C E A N

399016

5 cm

- Samples
- ◆ Panned Concentrate
  - ▲ Stream Sediment
  - \* Rock Chip

ZEEHAN D/2	ZEEHAN D/1
ZEEHAN D/4	ZEEHAN D/3

RENISON LIMITED	
ZEEHAN C/4	
STREAM SEDIMENT GEOCHEMISTRY	
TUNGSTEN IN P.P.M.	
SCALE: 1:10,000 METRES	
DRAWN	P.K.
TRACED	D.B.
DATE	June, 84
SCALE	1:10,000
DRAWING No.	4

E.L. 5/83

S O U T H E R N

O C E A N

399017

- Samples
- ◆ Panned Concentrate
  - ▲ Stream Sediment
  - \* Rock Chip

ZEEHAN C/2	ZEEHAN D/1
ZEEHAN C/L	ZEEHAN D/3

RENISON LIMITED

**ZEEHAN C/4**

**STREAM SEDIMENT GEOCHEMISTRY**

**COPPER IN P.P.M.**

SCALE: 1:10,000 METRES

DRAWN	P.K.
TRACED	D.B.
DATE	June, 84
SCALE	1:10,000
DRAWING No.	5

E.L. 5/83

S O U T H E R N

O C E A N

5 cm

399018

- Samples
- Panned Concentrate
  - Stream Sediment
  - Rock Chip

ZEEHAN C/2	ZEEHAN D/1
ZEEHAN D/4	ZEEHAN D/3

RENISON LIMITED		DRAWN	P.K.
ZEEHAN C/4		TRACED	D.B.
STREAM SEDIMENT GEOCHEMISTRY		DATE	June, 84
LEAD IN P.P.M.		SCALE	1:10,000
		DRAWING No.	
SCALE: 1:10,000 METRES			6

S O U T H E R N

O C E A N

399019

5 cm

GIS No 41825 - 41848  
= Survey No 219

- Samples
- ▶ Paired Concentrate
  - ▶ Stream Sediment
  - \* Rock Chip

ZEEHAN C/2	ZEEHAN D/1
ZEEHAN D/2	ZEEHAN D/3

RENISON LIMITED  
**ZEEHAN C/4**  
**STREAM SEDIMENT GEOCHEMISTRY**  
**ZINC IN P.P.M.**

SCALE: 1:10,000 METRES  
 0 200 400 600

DRAWN	P.K.
TRACED	D.B.
DATE	June, 84
SCALE	1:10,000
DRAWING No.	SL-2158
	7