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1.

## 1. INTRODUCTION

E.L. 11/76 covers an area of 35 sq. km. west and south-west of Zeehan, Western Tasmania (Figure 1).

Geologically, the licence area covers a sequence of folded and faulted Upper Proterozoic to Paleozoic sediments, volcanics and basic to ultra-basic intrusives, intruded by the Upper Devonian Heemskirk Granite.

Known mineralization within the E.L. comprises stanniferous magnetite skarn in the Tenth Legion area at the western end of the licence area, and base metals-silver mineralization in veins and fault infillings at its eastern end.

Exploration within the current licence area has concentrated on two sections of the E.L., viz. the Area D/East Heemskirk Grids in the west and the Stonehenge Grid in the east. The former were explored for skarn and carbonate replacement tin mineralization during the 1974-1980 period; the latter has been the main focus of interest on the E.L. in recent years and has been explored for Queen Hill-style carbonate replacement tin orebodies.

## 2. HISTORY OF EXPLORATION BY RGC GROUP COMPANIES

The history of exploration on the relinquished area is briefly summarized below. Details of the work done and results obtained are described in the reports listed. The reader of these reports should be aware that the area currently covered by E.L. 11/76 was once held in the name of Mt. Lyell (another member of the R.G.C. Group of Companies) as S.P.L. 129.

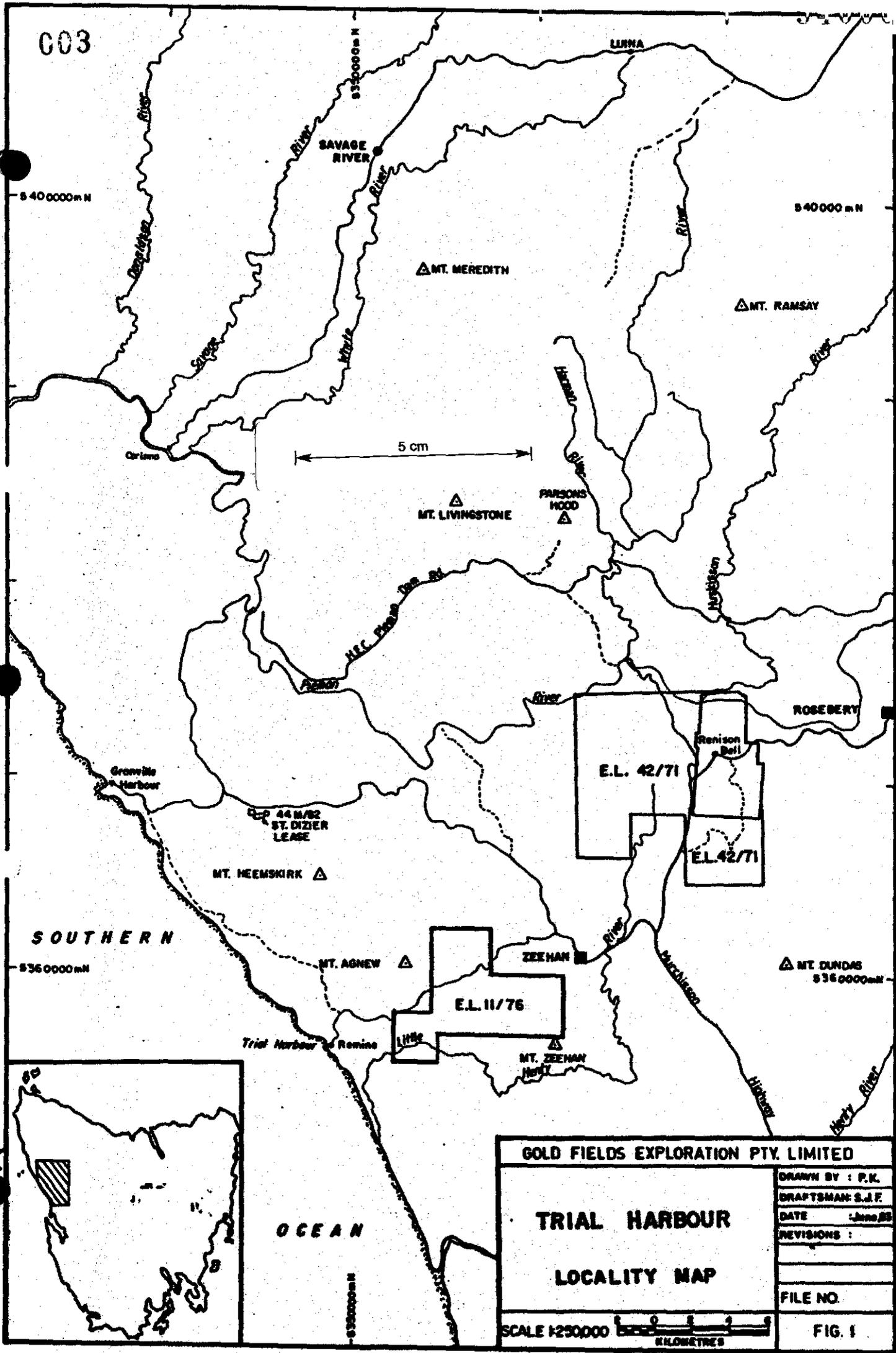
1974 : S.P.L. 129 granted.

1974-75: Gridding, geological mapping, soil geochemistry, ground magnetics, I.P. surveys and completion of one 413m long diamond drill hole on Area D grid. Test airborne EM INPUT survey over the eastern part of the S.P.L. References: Lees and Newnham (1974) and Wells (1975).

1975-76: Geological mapping, soil geochemistry and ground magnetics on Area D grid. Follow-up work, including gridding, ground magnetics and soil geochemistry, over area covered by INPUT survey. Reference: Wells, (1976).

1976-77: Gridding, soil geochemistry, ground magnetics and completion

003



<b>GOLD FIELDS EXPLORATION PTY. LIMITED</b>	
<b>TRIAL HARBOUR</b>	
DRAWN BY : P.K.	REVISIONS :
DRAFTSMAN: S.J.F.	
DATE : June 85	
FILE NO.	
SCALE 1:250000	FIG. 1

004

2.

of one 513m long diamond drill hole on the Area D and East Heemskirk grids. Reference: Ross (1977).

1977-78: Geological mapping, soil geochemistry, ground magnetics and I.P. surveys on the East Heemskirk Grid. Reference: Stephenson (1978).

1978-79: Geological mapping, soil geochemistry ground magnetics surveys on the East Heemskirk Grid. Completion of one 352m long diamond drill hole on the Area D. Grid. Reference: Ross (1979).

1979-80: I.P. Survey and completion of three diamond drill holes, totalling 367m on the East Heemskirk Grid. Reference: Roberts (1980).

1980-81: Geological mapping over the eastern end of the S.P.L. 129 by contract geologist R. Poltock. Reference: Roberts (1981).

1981-82: Airborne EM/magnetics DIGHEM survey over the eastern end of the S.P.L. (Stonehenge area). Reference: Kilpatrick (1982).

1982-83: Gridding, geological mapping, bedrock geochemistry, ground magnetics, VLF-EM and gradient array I.P. on the Stonehenge Grid. Reference: Roberts et al (1983).

1983-84: Geological mapping and limited additional ground magnetics on the Stonehenge Grid, and completion of data on old workings. Reference: Komysan et al (1984).

1984-85: Ground EM surveys and limited gridding, ground magnetics and bedrock geochemistry on the Stonehenge Grid. Reference: Roberts (1986).

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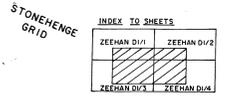
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- 1976: Annual Report. Trial Harbour, S.P.L. 129, 1975-76. Renison Ltd. Unpubl. Rept., 15p.



**AREA TO BE RETAINED (3 sq km)**

**AREA TO BE RELINQUISHED (32 sq km)**



- Legend**
- Quaternary:
    - Q1: Recent Alluvium
    - Q2: Recent Conglomerate
  - Tertiary:
    - T1: Fluvio-lacustrine, Sand, Silt, Clay, Shale, Sandstone, Lignite, Peat, Organic Residue
    - T2: Iron Rich Sand, Residual Sand, Lignite, Shale
  - Carboniferous Group:
    - C1: Black Shale
    - C2: Shale, Siltstone, Sandstone, Quartzite
    - C3: Sandstone, Shale
    - C4: Siltstone, Shale
    - C5: Sandstone
  - Permian Group:
    - P1: Sandstone, Shale, Siltstone, Quartzite, Conglomerate
    - P2: Sandstone, Shale, Siltstone, Quartzite, Conglomerate
    - P3: Sandstone, Shale, Siltstone, Quartzite, Conglomerate
    - P4: Sandstone, Shale, Siltstone, Quartzite, Conglomerate
    - P5: Sandstone, Shale, Siltstone, Quartzite, Conglomerate

- SYMBOLS**
- Geological boundary
  - Structural boundary
  - Line of faulting
  - Fault and other negative topographic features
  - Line of scarp slope
  - Dip and strike of bedding
  - Dip and strike of bedding (unroofed)
  - Dip and strike of stratum
  - Anticline axis line
  - Trunc bedding
  - Rock sample location
  - Min workings Adit
  - Shaft
  - Other

**GOLD FIELDS EXPLORATION PTY LIMITED**

**E.L. 11/76**  
**STONEHENGE GRID**  
**PROPOSED LICENCE AREA REDUCTION**

SCALE 1:5000

DRAWN BY: BK/RP  
 DRAFTSMAN: S.F.  
 DATE: MAR. 86  
 REVISIONS: MAR. 87

FILE NO. **FIG 2**