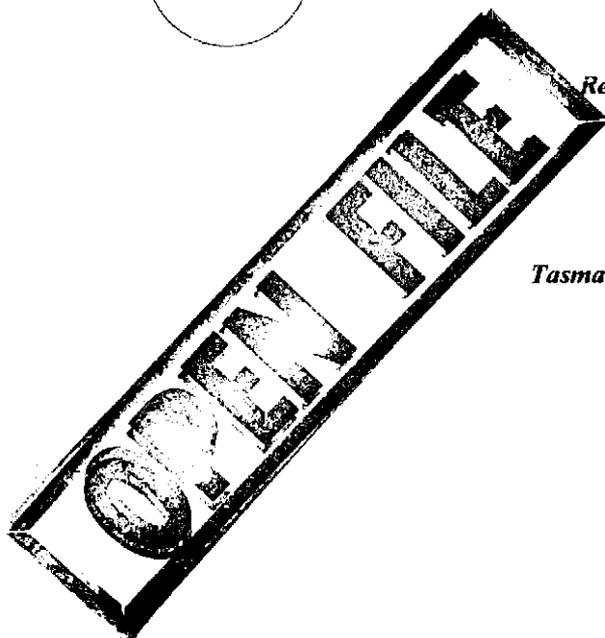
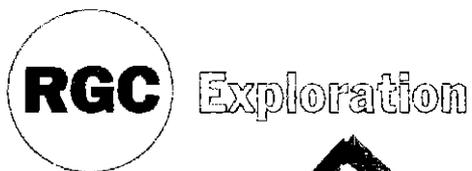


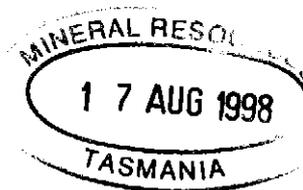
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*Relinquishment Report  
May 1998*



*Tasmanian Base Metals Project*

*E.L. 32/94*

*Gowrie Park*

*EL32/94*

*Vol 1 of 1*

*See Folio 71*

**HELD BY: Renison Limited**

**MANAGER & OPERATOR: RGC Exploration Pty Ltd**

**AUTHOR(s):  
M Vicary**



**6 July, 1998**

**PROSPECTS: Gowrie Park**

**MAP SHEETS:**

**1:25,000: Cethana**

**1:100,000: Forth**

**GEOGRAPHIC COORDS**

**Min East: 432 000 mE**

**Max East: 438 000 mE**

**Min North: 5 406 000 mN**

**Max North: 5 409 000 mN**

**COMMODITY(s): Cu, Pb, Zn, Ag, Au**

**KEY WORDS: Massive sulphide, geochemistry, geophysics, alteration**

**Distribution:**

**ference:**

# 98-4198

Relinquishment Report  
EL 32/94 - RGC - Gowrie Park  
M Vicary

## SUMMARY

This report concludes the exploration conducted by RGC Exploration Pty Ltd in EL 32/94 - Gowrie Park.

The Gowrie Park EL consists of interbedded rhyolitic - dacitic lavas and volcanoclastic sediments which are variably sericite-chlorite-pyrite altered and host minor stringer zone style Pb-Zn mineralisation. It forms the eastern strike extent of the Cethana Pyrite Zone. This sequence is overlain by a thick sequence of relatively unaltered andesitic lavas and volcanoclastic sediments.

RGC exploration targeted an inferred sea-floor position at the contact between the andesite and rhyolite/dacite sequences primarily defined by the asymmetric nature of the footwall alteration.

An extensive grid was established in the Gowrie Park area and several soil sampling and geophysical surveys performed. A short RC drilling program aimed at testing the andesite and rhyolite/dacite contact failed to produce targets worthy of additional follow-up. A largely conceptual drill target along strike from the RC drilling was proposed in late 1997. This target was not drilled prior to relinquishment.

**CONTENTS****SUMMARY****1. INTRODUCTION****2. LAND TENURE****3. PREVIOUS EXPLORATION****4. WORK COMPLETED BY RGC EXPLORATION 1995-1998****5. RECOMMENDATIONS****6. REFERENCES****LIST OF FIGURES**

**Figure 1.**                    Location Plan

**LIST OF APPENDICES**

**APPENDIX 1**            List of digital data supplied to Mineral Resources Tasmania

## 1. INTRODUCTION

EL 32/94 - Gowrie Park is held by Renison Limited and is explored by RGC Exploration, both wholly owned subsidiaries of RGC Limited. The licence is located in northern Tasmania approximately 34 km south of Devonport, and is situated on the northwestern slopes of Mount Roland, Mount Van Dyke and Mount Claude (Figure 1). It was granted on January 13, 1995 and covers an area of 18 sq km.

Gowrie Park is a disused Hydro Electric Commission village and is approximately 10 km southwest of Sheffield, the nearest major township. The major access to the EL from Sheffield is via Claude Road.

The topography of the EL is dominated by the steep northern and western slopes of Mount Claude, Van Dyke and Roland. These form an elevated ridge that defines the southern and eastern boundaries to the EL. The Dasher River flows in a broad valley in the northwest corner of the lease and O'Neills Creek forms a major drainage in the gully between Mount Roland and Mount Claude.

The vegetation consists predominantly of medium eucalypt forest and light tea tree scrub with some patches of rainforest. The more fertile soils of the Dasher Valley have been cleared and support farming activities.

The area was acquired for its potential to host Rosebery style Cu-Pb-Zn-Ag mineralisation.

The digital data relevant to exploration at Gowrie Park has been supplied to Mineral resources Tasmania in a CD supplied separately from this report. A list of the digital data is presented in Appendix 1.

## 2. TENURE

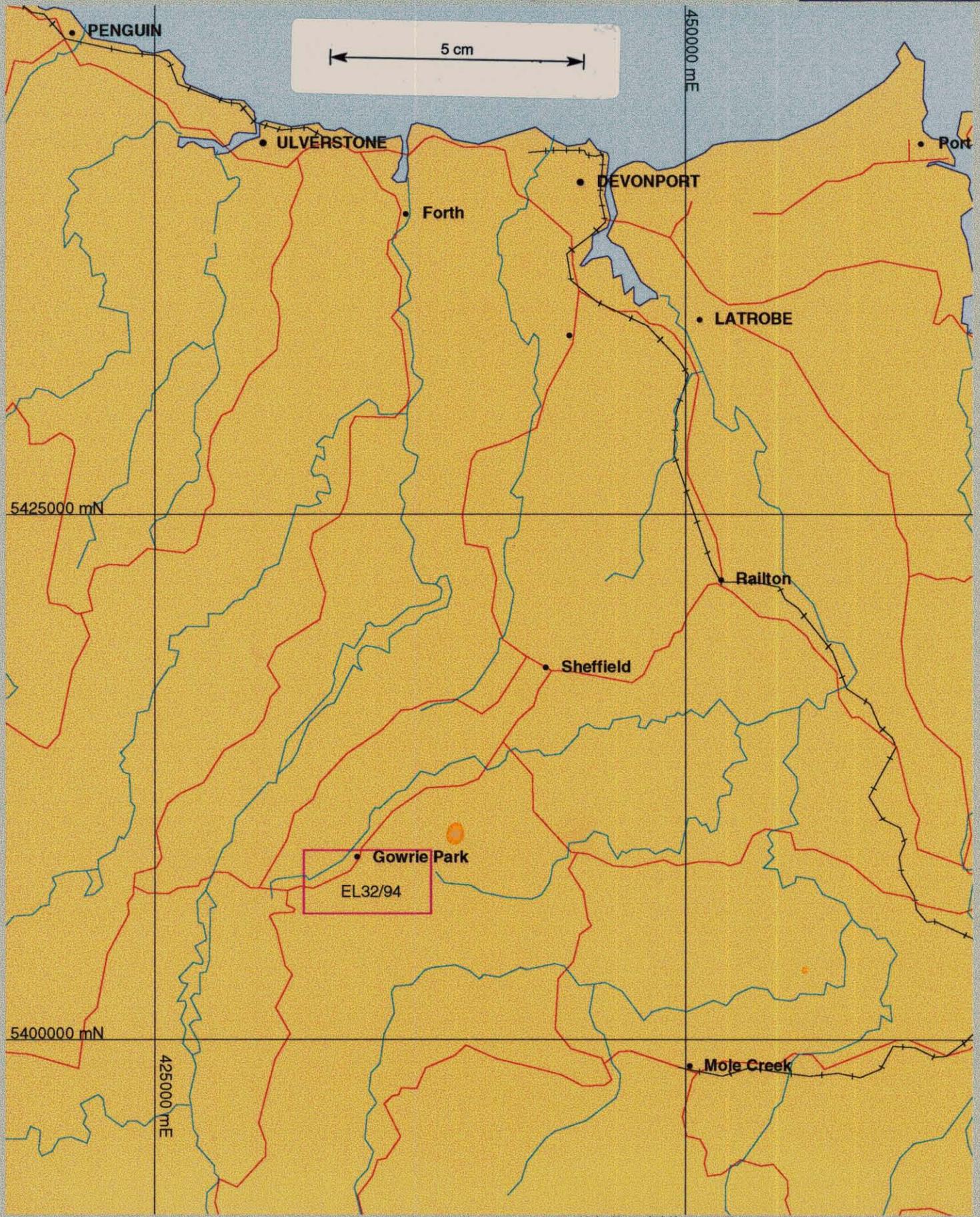
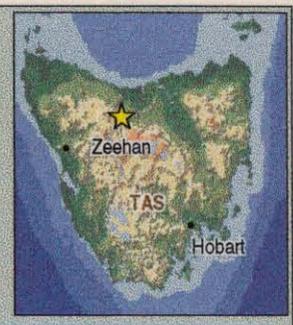
The EL comprises:

- Private Property
- Crown Land (Deferred Forest Land)
- Crown Land
- Land Vested in HEC.

## 3. PREVIOUS EXPLORATION

Gowrie Park consists of a sequence of Cambrian andesitic - rhyolitic lavas and volcanoclastics of the Mt Read Volcanic Belt. It has been explored since 1973 for VHMS mineralisation. Within Gowrie Park a sericite alteration zone with a coincident poorly defined Pb - Zn soil anomaly within rhyolitic volcanics has been the focus for much of the previous exploration. The previous exploration history of EL 32/94 prior to 1995 has been summarised by Halley & Vicary (1996).

# Gowrie Park Location Plan Figure 1



#### 4. WORK COMPLETED BY RGC EXPLORATION 1995-1998

The exploration completed by RGC Exploration in the Gowrie Park area between 1995 and 1998 is reported in the following Annual Reports:-

1995-96	Halley and Vicary, 1996,
1996-97	Gregory, 1997 and
1997-98	Stockwell, 1997.

The following section summarises RGC's exploration program. Refer to the above reports for a more detailed discussion.

##### 1995 - 1996

Access	37 line kms of grid cut
Geology	Literature review of previous exploration 1:5000 geological mapping
Drilling	Relogging of previous drill holes
Geochemistry	23 rock chip samples analysed 587 soil samples analysed
Geophysics	Ground magnetic survey of grid

##### 1996 - 1997

Access	3.4 line km of infill grid cut
Drilling	6 short RC holes (GPRC1-2, GPRC5-8)
Geochemistry	118 chip samples from RC drilling program analysed 33 soil samples analysed 35 soil samples analysed for Mobile Metal Ions
Geophysics	SP survey Gradient array IP survey VLF-EM survey

##### 1997 - January 1998

Geology	Project review by Wally Herrmann
Geochemistry	43 soil samples analysed
Drilling	One diamond drill hole planned

##### January 1998 - May 1998

No additional work completed.

## 5. RECOMMENDATIONS

Stockwell, 1997 lists the geological features at Gowrie Park common to VHMS systems:-

- 1) a bimodal volcanic package
- 2) characteristic sericite-pyrite footwall? alteration
- 3) jasper - quartz - carbonate veining in the footwall? rhyolites
- 4) occurrence of albite alteration in the hangingwall? andesites
- 5) an asymmetrical alteration halo
- 6) known base metal stringers of Cambrian age in the footwall? rhyolites.

Consideration of the above features and the extent of the alteration from Gowrie Park to Cethana suggests that a substantial hydrothermal system was operative.

Previous exploration efforts have focused along strike from the CRA known mineralisation and along strike of the andesite - rhyolite contact and have failed to locate significant mineralisation close to the surface.

It was recommended (Stockwell, 1997) that additional exploration in the Gowrie Park area focus on those areas hidden from previous exploration techniques. Geophysical techniques, RC drilling and soil geochemistry have failed to outline any obvious near surface targets, forcing exploration to look below the well-tested upper 200m.

A largely conceptual drill target to test the andesite - rhyolite contact, the inferred sea floor position at the time the rhyolite hosted stringer mineralisation was being deposited, was proposed. This target was not drilled due to changes in the corporate exploration strategy and as a result the Gowrie Park area is recommended for relinquishment.

## 6. REFERENCES

Gregory D., 1997, Annual Report. Jan 1996 - Jan 1997. Tasmanian Base Metals Project. EL 32/94. RGC Exploration Pty Ltd.

Halley S. W., and Vicary M. J., 1996. Tasmanian Base Metals Project. EL 32/94 Gowrie Park Annual Report. Jan 1995 - Jan 1996. RGC Exploration Pty Ltd.

Stockwell, R., 1997. Annual Report Jan 1997 - Jan 1998. Tasmanian Base Metals Project. EL 32/94 Gowrie Park. RGC Exploration Pty Ltd

**APPENDIX 1**

**LIST OF DIGITAL DATA SUPPLIED TO MINERAL  
RESOURCES TASMANIA**

**List of digital data supplied to Mineral Resources Tasmania**

<b>Geochemistry</b>	Gowrieallsoil.xls - All soil assays from Gowrie Park area Gowriercdrill.xls - RC drill hole assay results
<b>Geology</b>	Various MapInfo .ID, .MAP, .DAT, and .IND Files (Faults, Geology, Local grids, Tenements)
<b>Drilling</b>	Collar.xls - Collar details for all Gowrie Park drill holes Geology.xls - Down hole geology for RC drill holes Survey.xls - Survey details for all Gowrie Park drill holes
<b>Geophysics</b>	Results from various Ground Magnetic, IP, SP and VLF-EM surveys.