



# GIANTS REEF MINING N.L.

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## EXPLORATION LICENCE 9372

*GUM RIDGE*

### SECOND ANNUAL REPORT

*6 December 1996 - 5 December 1997*

*LICENSEE:*

**GIANTS REEF EXPLORATION PTY LTD**

A.C.N. 009 200 346

*AUTHOR:*

**P. G. SIMPSON**

*December, 1997*

#### DISTRIBUTION:

Department of Mines & Energy  
Giants Reef Exploration Pty Ltd  
Giants Reef Mining N.L.

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SE53-14  
TENNANT CREEK 1:250 000  
5758  
TENNANT CREEK 1:100 000

## SUMMARY

Exploration Licence 9372, *Gum Ridge*, covering 6 blocks, is centred 27 kilometres east-northeast of Tennant Creek. The Licence was granted to Giants Reef Exploration Pty Ltd on 6 December 1995 for 6 years.

This report covers work carried out during its second year of tenure.

Targets are gold and copper orebodies.

Exploration during the second year of tenure included rock chip sampling, gridding, magnetic interpretation and drill-site preparation.

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2. Licence Area
3. Rock Chip Sample Locations

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1. Rock Chip Sample Assays

## 1. INTRODUCTION

EL 9372 is located east-northeast of Tennant Creek and immediately north and east of the abandoned Gigantic and Blue Moon mines. The Licence is one of a contiguous group of tenements, referred to as the *Eastern Project Area*, being explored by Giants Reef. The others are, ERL 85, ELs 7636, 7712, 7985, 9408, 9645 and 9685.

This report records the exploration work done on EL 9372 during the second year of tenure, from the 6th of December 1996 to the 5th of December 1997.

## 2. LOCATION

EL 9372, *Gum Ridge*, is approximately 27 kilometres east-northeast of Tennant Creek. It is located on the Tennant Creek 1:100 000 scale map sheet.

Access is via a four-wheel drive, dry weather track originating near the Tennant Creek microwave repeater tower and following the "Lone Star" trend of workings to the Gigantic mine. At the Gigantic, the track divides with one branch leading south past Metallic Hill and the other branch runs southeast past Blue Moon to the Trakside prospect and on to the Gum Ridge trig station. During and immediately after rain the area is generally inaccessible.

Figure 1 shows the EL and surrounding tenements.

## 3. TENURE

EL 9372, covering 6 blocks (approximately 19 square kilometres), was granted to Giants Reef Exploration Pty Ltd on the 6th of December 1995 for a period of 6 years.

The Licence is within NT Portion 1075, Perpetual Pastoral Lease 1142, Tennant Creek Station.

Figure 2 shows the Licence area.

## 4. GEOLOGY

Poorly-exposed siltstone, sandstone and shale outcrops of the Palaeoproterozoic Warramunga Formation are found in the central part of the EL, extending in a belt running north from around Blue Moon. In the eastern and northeastern parts is a low plateau of Neoproterozoic to Cambrian basalts (Helen Springs Volcanics) and varied sediments (Gum Ridge Formation) of the Georgina Basin margin. Elsewhere the bedrock is covered by Quaternary alluvium, red sand and outwash from the Cambrian plateau.

## 5. WORK DONE DURING THE YEAR

### 5.1 Rock chip sampling

Figure 3 shows the rock chip sample locations and the geology of the Trakside prospect.

Assay results are given in Appendix 1.

### 5.2 Gridding

To provide control for the proposed drilling, a grid on AMG co-ordinates was established by contract surveyor P. Youngs, and tied into the Gum Ridge trig station.

### 5.3 Drill site preparation

The washed-out track leading east from the Blue Moon mine to the Gum Ridge trig station was re-graded as far as the Trackside prospect, a distance of 1.5 kilometres. At the prospect, an area was cleared and pegs put in the ground to mark the positions of two RC percussion holes which were designed to test the exposed ironstone at depth.

The two holes were postponed because of the very encouraging drilling results at the Ganymede and Callisto prospects in neighbouring EL 9465.

### 5.4 Magnetic interpretation

Apart from the Cambrian strata in the eastern half of the EL, there is not much bedrock exposure. In particular, there is very little exposure of the prospective Warramunga Formation which, from Giants Reef's 1993 detailed aeromagnetic of the area, underlies the outwash covered areas of the EL west on Gum Ridge. Several magnetic features have been noted in the north and northwest parts of the EL which will be the subjects of ground magnetics surveys in the third year of tenure.

## 6. CONCLUSIONS

The area is still regarded as prospective, and the intended drilling at the Trackside prospect which is planned to be carried out in the third year of the Licence, should provide useful geological information on the area.

## 7. EXPENDITURE

The minimum expenditure covenant for the second year of tenure was \$8,700. Actual expenditure was as follows:

	\$
Geology .....	3,303
Gridding.....	550
Geophysics .....	940
Geochemistry .....	249
Analytical .....	51
Drill site preparation and road works.....	3,134
Administration and Overheads.....	1,272
TOTAL	\$9,499

## 8. PROPOSED PROGRAMME AND EXPENDITURE FOR NEXT YEAR

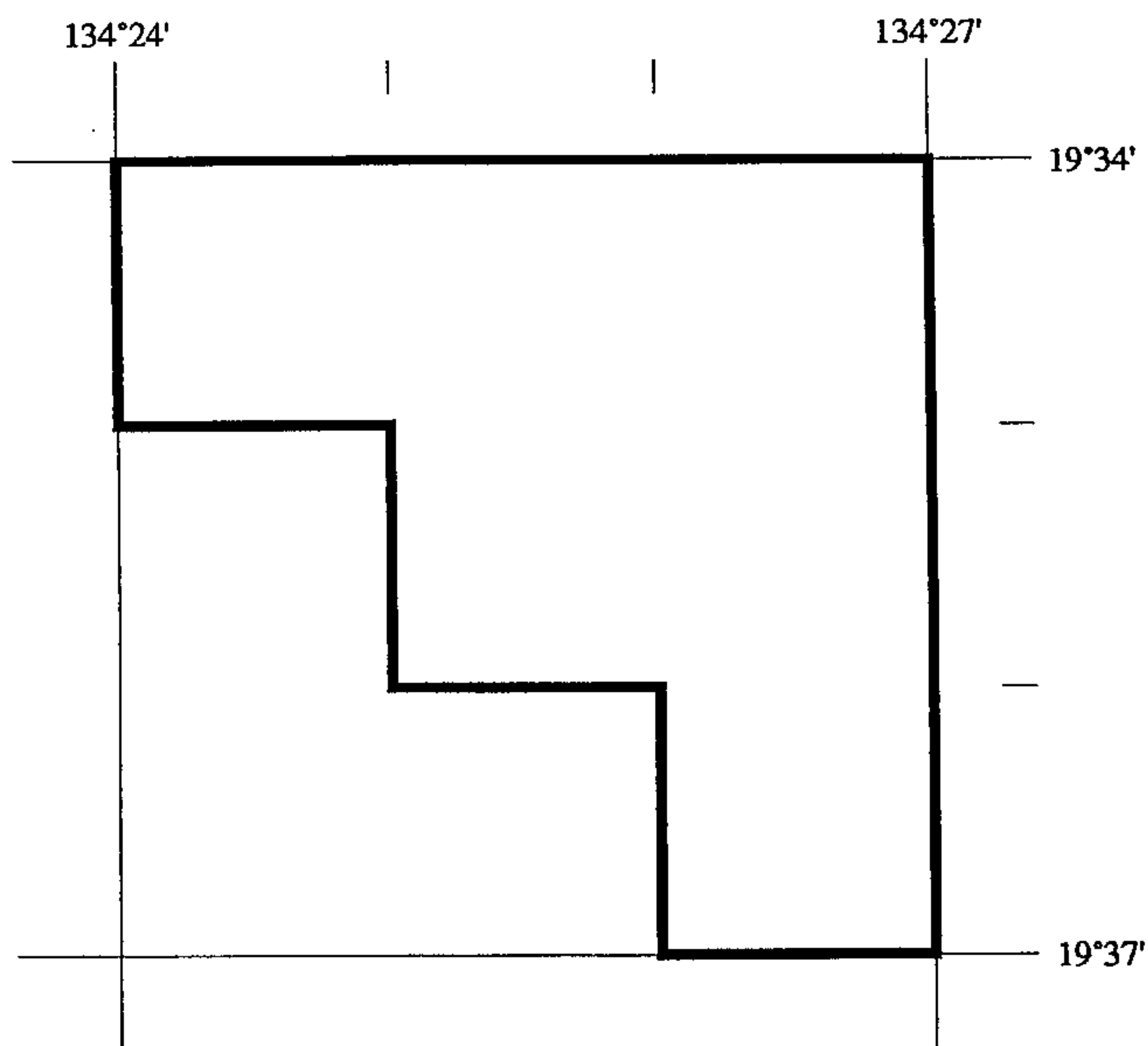
	\$
Geology .....	2,500
target refinement	
Geophysics .....	3,500
ground magnetics and interpretation	
Drilling .....	6,000
RC percussion	
Analytical.....	3,000
Administration and Overheads.....	2,250
TOTAL	\$17,250

Exploration programmes can be affected by results, and while this is the proposed minimum expenditure, specific activities may vary according to the results achieved.

P. G. SIMPSON  
EXPLORATION MANAGER



GIANTS REEF EXPLORATION PTY LTD			
TENNANT CREEK NORTHERN TERRITORY			
AREA	EL 9372 - GUM RIDGE		
MAP REF.	5758 TENNANT CREEK 1:100 000		
SUBJECT	Location and Surrounding Tenements Extract DME MINING TENURE 52/5		
DATE	AUTHOR	SCALE	
DEC 1997			FIGURE 1



**EL9372**  
**6 BLOCKS**  
**19 sq kms**

GIANTS REEF EXPLORATION PTY LTD			
TENNANT CREEK NORTHERN TERRITORY			
AREA	EL 9372 - GUM RIDGE		
MAP REF.	5758 TENNANT CREEK 1:100 000		
SUBJECT	Year 2 Licence Area Extract DME SCHEDULE		
DATE	AUTHOR	SCALE	
			FIGURE 2



GIANTS REEF EXPLORATION PTY LTD			
TENNANT CREEK NORTHERN TERRITORY			
AREA	EL 9372 - GUM RIDGE		
MAP REF.	5758 TENNANT CREEK 1:100 000		
SUBJECT	Rock Chip Sample Locations <i>Trackside Prospect</i>		
DATE	AUTHOR	SCALE	
Nov 1997	PGS	1:2 000	FIGURE 3

## APPENDIX 1

### ROCK CHIP SAMPLE ASSAYS

#### Analysis Summary

SAMPLE NUMBERS		LABORATORY	ANALYSIS REPORT NO.	No. of Samples	DATE
From	To				
130184	130186	Assaycorp	AC38478	4	12.09.97



# ASSAYCORP

Report Code: ..... AC 38478

Samples Received: ..... 12/09/97

Number of Samples: ..... 19

## Giants Reef Mining NL

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Tennant Creek NT 0861

Assaycorp Pty Ltd

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Pine Creek NT 0847

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## Report Distribution

Peter Simpson

Reference: ..... 16158

Project: .....

Cost Code: .....

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## Sample Preparation:

## Assay Data:

Analysis	Analytical Method	Digest	Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	FA	AAS	Acc. $\pm 15\%$	0.01	ppm
Au(R)	FA50	FA	AAS	Acc. $\pm 15\%$	0.01	ppm
Bi	G300H	MA3	HYDRIDE	Prec. $\pm 10\%$	1	ppm
Cu	G300I	MA3	ICP-OES	Prec. $\pm 10\%$	1	ppm
Fe	G300I	MA3	ICP-OES	Prec. $\pm 10\%$	0.01	percent

Report Comment: This cover sheet is an integral part of the report. This report can only be reproduced in full.

Authorisation: Ray Wooldridge

Report Dated: 15/09/97



# ASSAYCORP

ASSAY CODE: AC 38478

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Sample	Au (ppm)	Au(R) (ppm)	Bi (ppm)	Cu (ppm)	Fe (%)
--------	-------------	----------------	-------------	-------------	-----------

0183	<0.01		<1	59	3.05
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130184	<0.01		14	54	14.8
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130185	0.02		5	107	16.3
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130186	<0.01		13	156	12.3
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Method	FA50	FA50	G300H	G300I	G300I
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