

FINAL RELINQUISHMENT REPORT FOR EL 22746

for the period
23/07/2003 to 24/12/2007

NORTHERN TERRITORY

Volume **1** of **1**

1:250,000 SHEET: The Granites SF52-03

1:100,000 SHEET: Ptilotus 4957

AUTHOR: F. Parker

TENEMENT HOLDERS: Newmont Tanami Pty Ltd

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and Mines

 ☐ Newmont Asia Pacific

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SUMMARY

This is the final relinquishment report for EL 22746. As such, it details all exploration activity conducted over the licence for the period 23rd July 2003 to 24th December 2007.

The tenement is located approximately 650km northwest of Alice Springs. The tenement is located approximately 35 km north northeast of The Granites Gold Mine.

TABLE OF CONTENTS

1	INTRODUCTION	1
2	LICENCE DETAILS	1
2.1	LOCATION, ACCESS & PHYSIOGRAPHY	1
3	GEOLOGY	1
4	EXPLORATION HISTORY	2
5	REFERENCE LIST/ANNUAL REPORT BIBLIOGRAPHY	3

LIST OF TABLES

TABLE 1: Tenement Summary for EL 22746.....	1
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LIST OF FIGURES

Figure No.	Title	Scale
1	Tenement Location and Access	1:500,000
2	Tenement Relinquishment	1:150,000
3	Exploration Index	1:500,000
4	Surface Geochemistry	1:150,000

LIST OF APPENDICES

APPENDIX 1:	DIGITAL SAMPLE & DRILLHOLE DATA
	EL22746_NTSG3SSASS_2007S.txt EL22746_WASL3SSAMP_2007S.txt

1 INTRODUCTION

This document is the final relinquishment report for EL 22746. It describes exploration activities over the tenement from 23rd July 2003 to the 24th December 2007.

2 LICENCE DETAILS

Newmont Tanami Pty Ltd (Newmont) held and managed EL 22746.

TABLE 1: Tenement Summary for EL 22746

Licence	Grant	Surrender	Blocks	Km ²	Title Holder
EL 22746	23/07/2003	24/12/2007	85	273	100% Newmont Tanami Pty Ltd

2.1 LOCATION, ACCESS & PHYSIOGRAPHY

The tenement comprises 85 blocks situated approximately 35 km north northeast of The Granites Gold Mine.

Main access is via the Tanami Track.

3 GEOLOGY

The Granites-Tanami Goldfields lie in the eastern part of the Early Proterozoic Granites-Tanami Inlier, which is part of the Northern Australian Orogenic Province (Plumb, 1990). The Inlier abuts the Arunta Complex to the south and east and is probably a continuation of the Halls Creek Orogen in Western Australia (Hendrickx, et al, 2000). The Inlier underlies younger cover sequences including the extensive Paleozoic Wiso Basin on its northeastern margin, and Victoria River Basin to the north. To the west, clastic sediments of the Middle Proterozoic Birrindudu Basin overlie and separate the Inlier from the similar age rocks in the Halls Creek Province.

The oldest rocks of the Tanami region belong to the Billabong Complex, a suite of Archaean age gneiss and schist. This is unconformably overlain by the Proterozoic MacFarlanes Peak Group (mafic volcanic and volcanoclastic rocks), followed by a thick succession of clastic sediments of the Tanami Group. (Hendrickx et al, 2000). A suite of syn- to post-deformation dolerites and gabbros are found intruding both the MacFarlane Peak and Tanami Groups.

Complex, polyphase deformation during the Barramundi Orogeny (1845 – 1840Ma) has affected the entire Granites-Tanami Inlier. It appears to have been largely controlled by two sets of regional scale fundamental crustal fractures that trend NNE and WNW. This is evidenced by the orientation of successive phases of macroscopic folding in the region and the consistent sympathetic trends of late tectonic faults.

Peak metamorphism during the Barramundi Orogeny reached amphibolite facies (The Granites Gold Mine), but is more generally greenschist facies through the Inlier (Callie Gold Mine). Contact metamorphic aureoles, commonly identified in pelitic schist units by randomly orientated andalusite porphyroblasts, are well developed at the margins of the syn- and post-orogenic granite plutons.

Localised extension followed, forming small basins which filled with shallow marine sediments to the west (Pargee Sandstone) and pillow basalts and turbiditic sediments to the east (Mt. Charles Formation).

Following the period of extension, widespread granite intrusion and volcanism followed in the period 1830 – 1810 Ma. At least three suites of granitic intrusives and two volcanic complexes are present. The last intrusion of (undeformed) granite occurred at around 1800 – 1795Ma, with intrusion of The Granites Suite (Hendrickx et al, 2000).

Residual hills of gently folded Carpentarian Gardiner Sandstone unconformably overlie Early Proterozoic lithologies. Younger flatlying Cambrian Antrim Plateau Basalts are also preserved as platform cover in areas protected from erosional stripping.

Tertiary drainage channels, now completely filled with alluvial and lacustrine clays and calcrete are a major feature of the region. Some drainage profiles are 10 km wide and greater than 100m deep.

A desert terrain comprising transported and residual colluvial cover sediments and aeolian sand blanket a large portion of the Inlier, with an estimated outcrop exposure of less than 10% of the early Proterozoic lithological units.

Gold mineralisation within the Newmont Tanami tenement holdings is dominantly hosted by the Tanami Group, a sequence of fine to medium-grained turbiditic metagreywackes with lesser amounts of metapelite, carbonaceous siltstone and schist, banded iron-formation, chert and calcsilicates. (Hendrickx et al, 2000). Owing to their more resistant nature, only the cherts and iron-formations and associated interbedded graphitic schists tend to outcrop above the sand plain. The interlayered pillow basalts and sediments of the Mt.Charles Formation at the Tanami Mine deposits also host significant gold mineralisation.

4 EXPLORATION HISTORY

During 2005 reconnaissance geochemical sampling was carried out the Persistence North (EL 22746). The lag (31 samples) / rock chip (1 sample) sampling program was concentrated over virgin ground at nominal 500m x 1000m spacing with samples collected as close as 300m when appropriate.

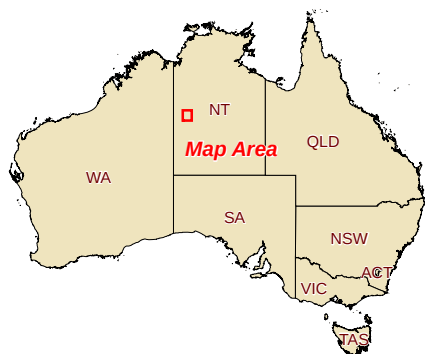
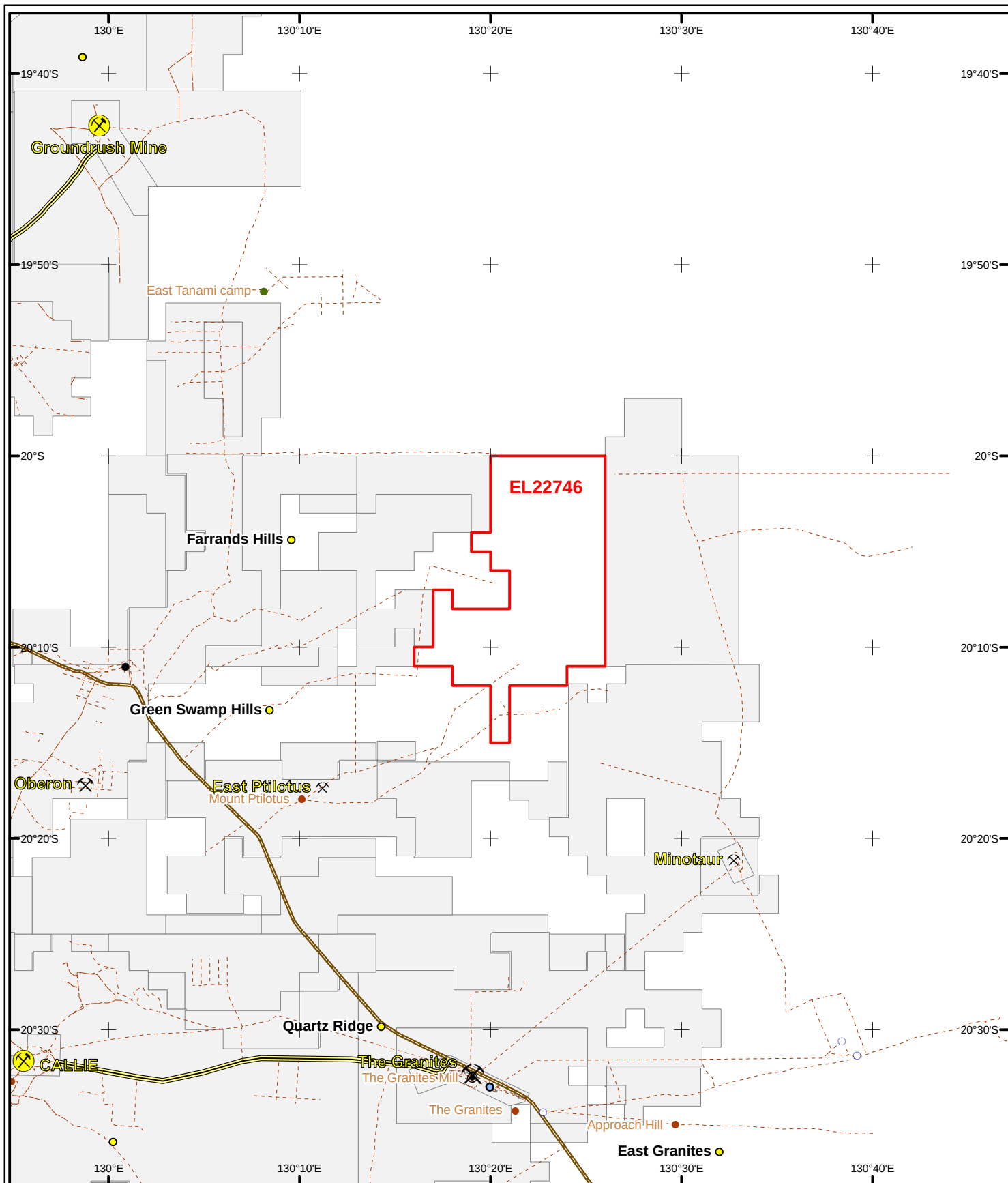
5 REFERENCE LIST/ANNUAL REPORT BIBLIOGRAPHY

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Kilometers

NEWMONT **NEWMONT EXPLORATION PTY LTD**

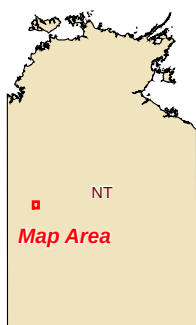
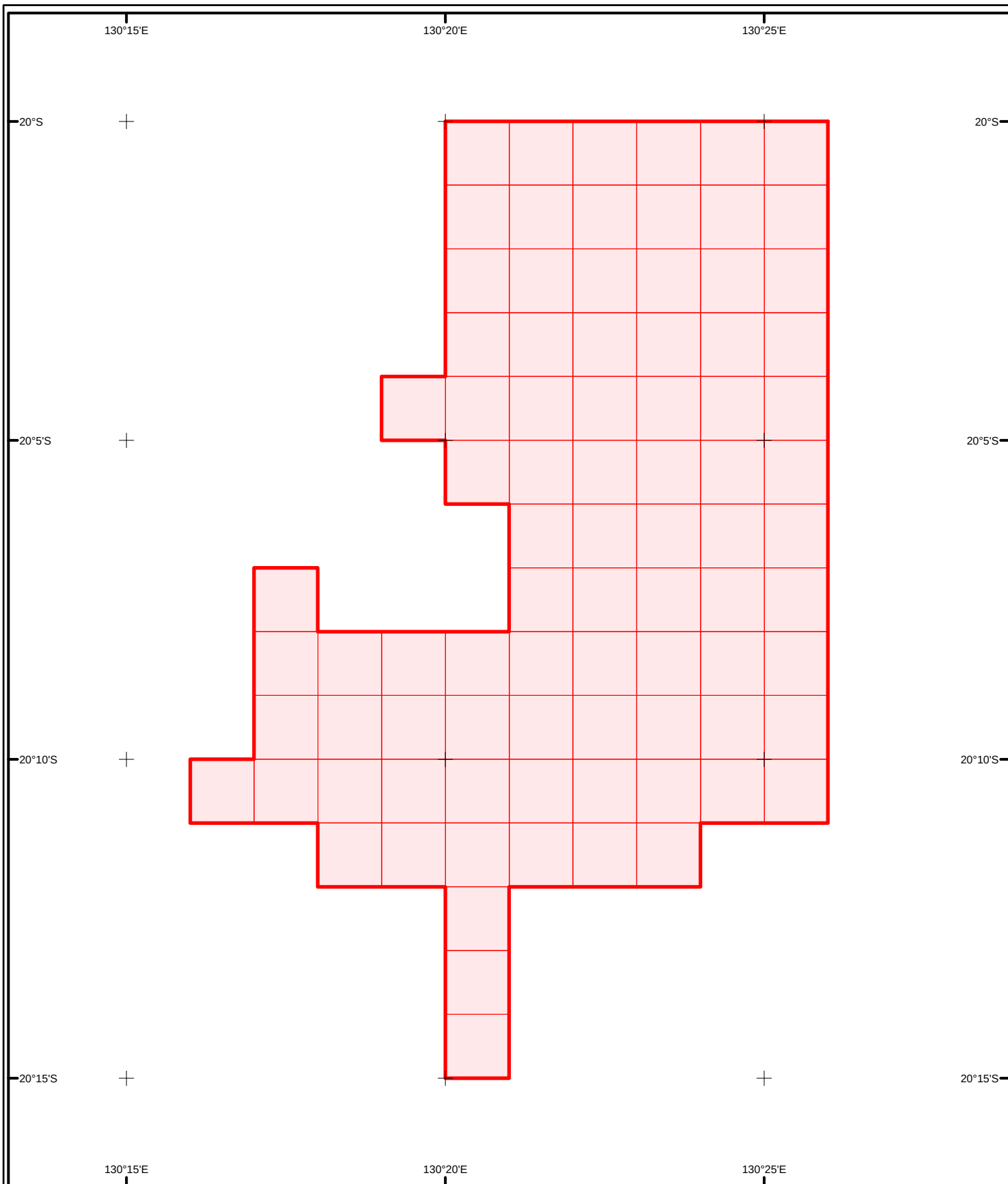
Tanami Project

EL 22746

LOCATION AND ACCESS

FIGURE 1

Author: F. Parker	Scale: 1:500 000
Drawn: V. Preedy	Date: Apr 2008
File: TAN_Lnd_Ten_A4_EL22746surr1.mxd Projection: Lat/Long (GDA 94) \\AUS\INT\Tanami_Tenements\MXD\Reports\	



Area Surrendered - 85 blocks



0 2.5 5
Kilometers

NEWMONT **NEWMONT EXPLORATION PTY LTD**

Tanami Project

EL 22746

TENEMENT RELINQUISHMENT

FIGURE 2

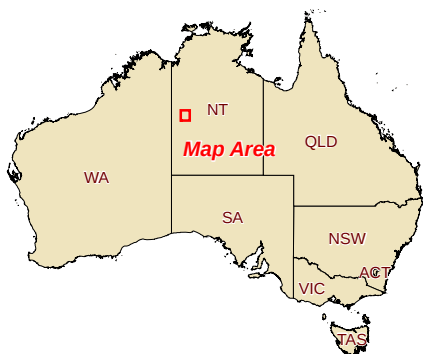
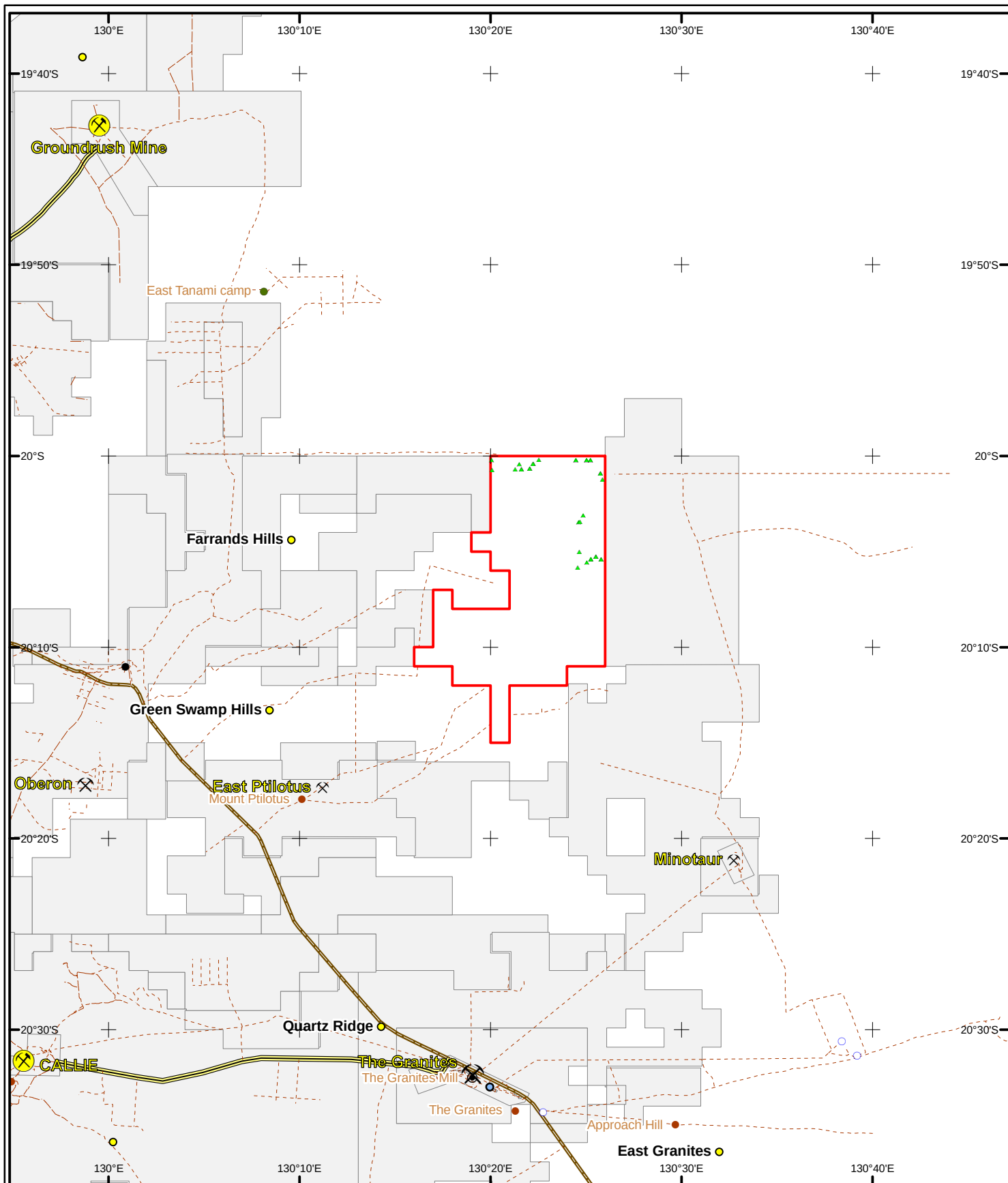
Author: F. Parker

Scale: 1:150 000

Drawn: V. Preedy

Date: Apr 2008

File: TAN_Lnd_Ten_A4_EL22746surr2.mxd Projection: Lat/Long (GDA 94)
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▲ Surface Sampling



0 5 10

Kilometers

NEWMONT EXPLORATION PTY LTD

Tanami Project

EL 22746

EXPLORATION INDEX

FIGURE 3

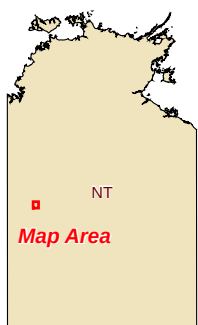
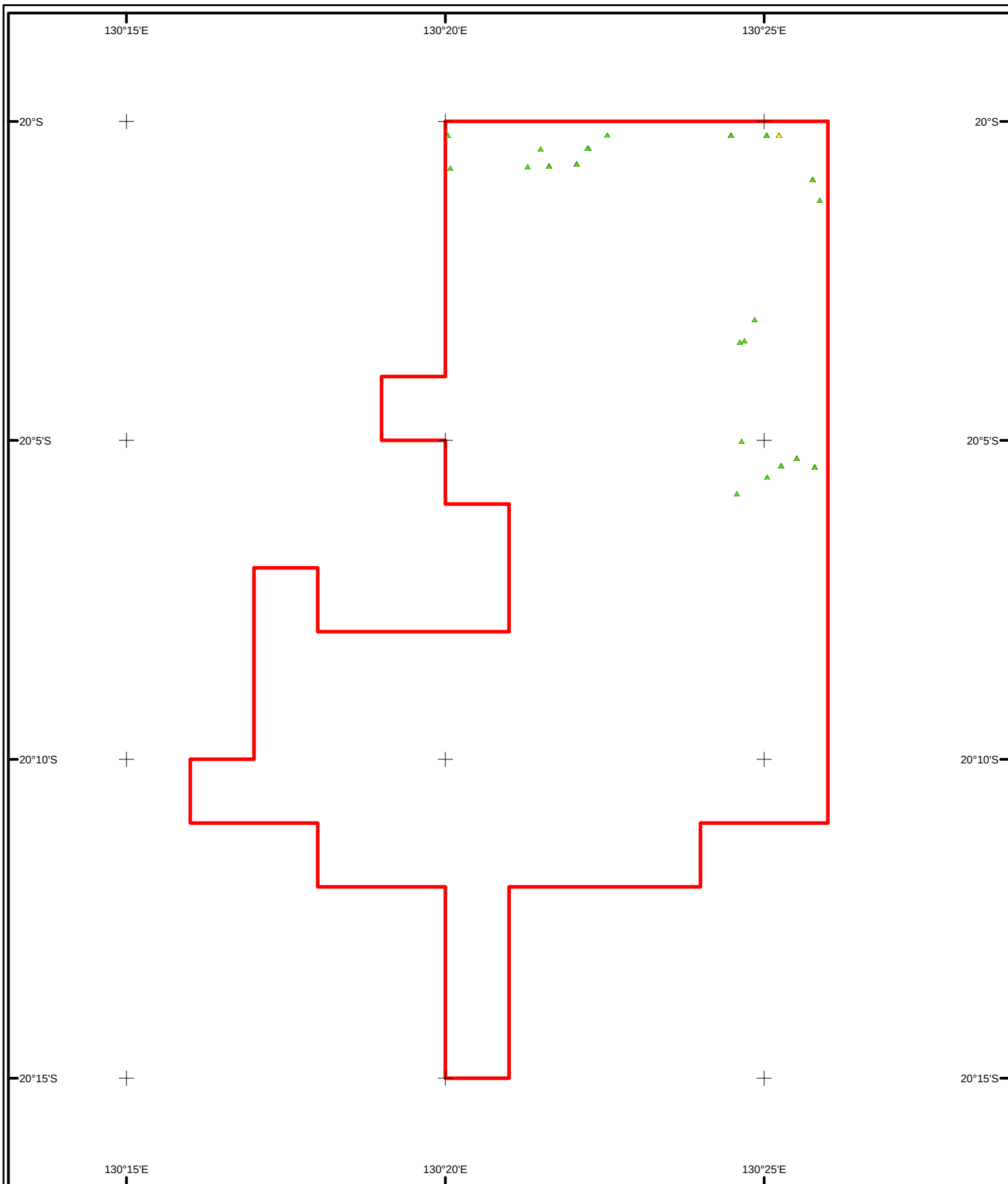
Author: F. Parker

Scale: 1:500 000

Drawn: V. Preedy

Date: Apr 2008

File: TAN_Lnd_Ten_A4_EL22746surr3.mxd Projection: Lat/Long (GDA 94)
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Surface Sampling

- ▲ LAG
- ▲ Rockchip



0 2.5 5
Kilometers

NEWMONT **NEWMONT EXPLORATION PTY LTD**

Tanami Project

EL 22746

SURFACE GEOCHEMISTRY

FIGURE 4

Author: F. Parker	Scale: 1:150 000
Drawn: V. Preedy	Date: Apr 2008
File: TAN_Lnd_Ten_A4_EL22746surr4.mxd Projection: Lat/Long (GDA 94) \\AUS\INT\Tanami\Tenements\MXD\Reports\	