PALADIN RESOURCES N.L.



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ANNUAL REPORT on Exploration Licence 8862

PINE CREEK
NORTHERN TERRITORY

COVERING THE PERIOD

15 November 1994 to 14 November 1995

COMPILED BY: K S TAYLOR

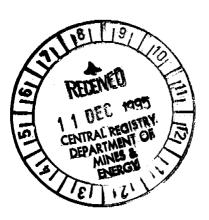
December 1995



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(ii) TABLE OF CONTENTS

SUMMARY			PAGE (i)
TABLE OF CONTENTS			(ii)
1.	INTRODUCTION	•	1
2.	LOCATION		1
3.	GEOLOGY		1
4.	INVESTIGATIONS		2
	4.1 Airborne Magnetics		2
	4.2 Geological Mapping		2
5.	STATEMENT OF EXPENDIT	URE	3
	<u>LIST</u>	OF FIGURES	
Figure 1	14D01	Pine Creek Project, Location Map	
Figure 2		Total Field Magnetic Contours	
Figure 3	19A05	EL 8862 Geological Map	

(i) SUMMARY

EL 8862 was granted to J A Earthrowl, J J Farrell, G Mainelis, J A Cooke, M I Cooke on 15 November 1994. The tenement forms part of the North Goodall Project in which Paladin is earning an interest by carrying out exploration on the project area.

Work carried out during the first year of tenure included airborne magnetics and geological mapping.

Exploration is focussed on gold.

1. INTRODUCTION

Exploration Licence 8862, covering an area of five blocks (16km²) was granted on 15 November 1994 to J A Earthrowl, J J Farrell, G M Mainelis, M I Cooke and J A Cooke, in equal shares. Giants Reef Exploration Pty Ltd (Giants Reef) has an agreement over the tenement and it forms part of the North Goodall Project in which Paladin Resources NL (Paladin) in earning an interest under an agreement signed on 28 August 1995.

The tenement is one of several worked by Paladin as the North Goodall Project.

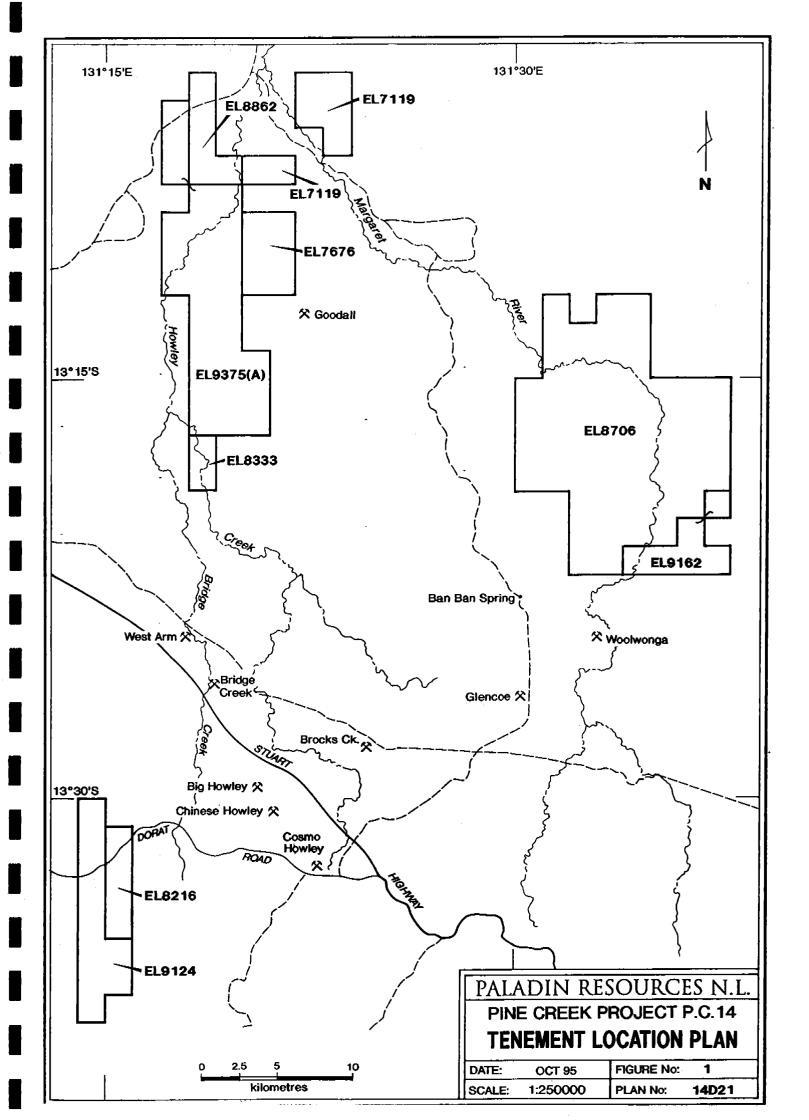
This report covers exploration work carried out by Paladin during the first year of tenure.

2. LOCATION

EL 8862 lies approximately midway between Batchelor and Pine Creek on the PINE CREEK 1:250,000 map sheet SD 52-8 and the MARGARET RIVER 1:50,000 map sheet 14/ 2-I (Figure 1).

3. **GEOLOGY**

The North Goodall Project lies within the Central Marrakai Structural Domain with the majority of tenement areas situated adjacent to the Howley Anticline. In this region the prospective South Alligator Group and Burrell Creek Formation rocks have been uplifted by intruding granitoid plutons such as the Burnside Granite and subsequently exposed on the flanks and marginal to the cores of regional domes. Gold mineralisation occurs preferentially within carbonaceous and sulphidic units of the South Alligator Group and Greywackes of the Burrell Creek Formation in quartz reefs or stockworks in a variety of structural settings though usually in association with anticlinal axes.



Stratigraphically the South Alligator Group consists of the basal Koolpin Formation made up of BIF, carbonaceous phyllite and siltstone overlain by tuff, siltstone and phyllite of the Gerowie Tuff, and is topped by phyllite, chert and BIF of the Mt Bonnie Formation. Burrell Creek Formation flysch sediments of the Finnis River Group conformably overlay the South Alligator Group. The sediments were intruded by the Zamu Dolerite before the onset of metamorphism and deformation. The rocks are metamorphosed to lower greenschist facies by the Pine Creek orogeny. The tight isoclinal folds trend north and north-west and are refolded by east-west trending open folds.

4. <u>INVESTIGATIONS</u>

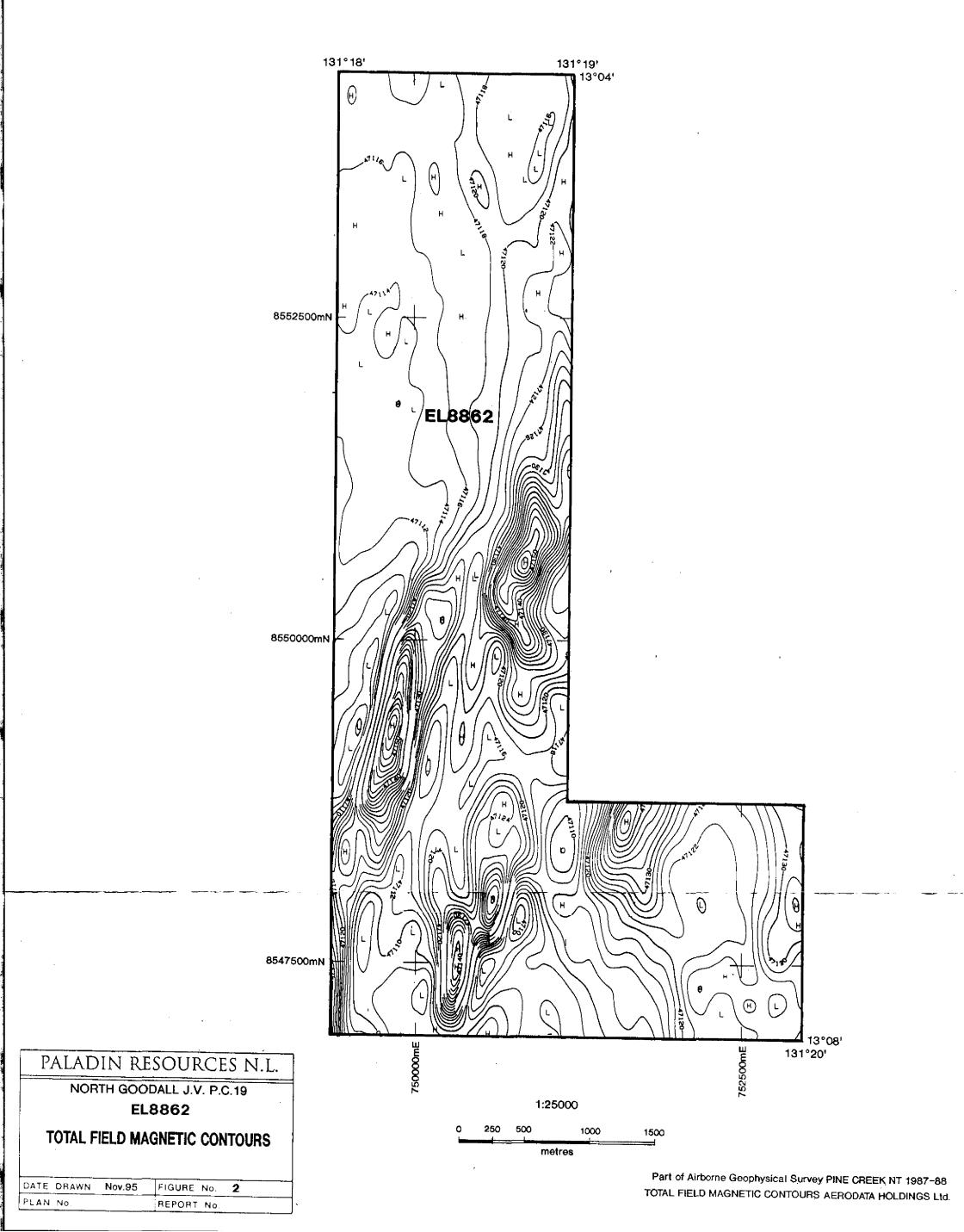
4.1 Airborne Magnetics

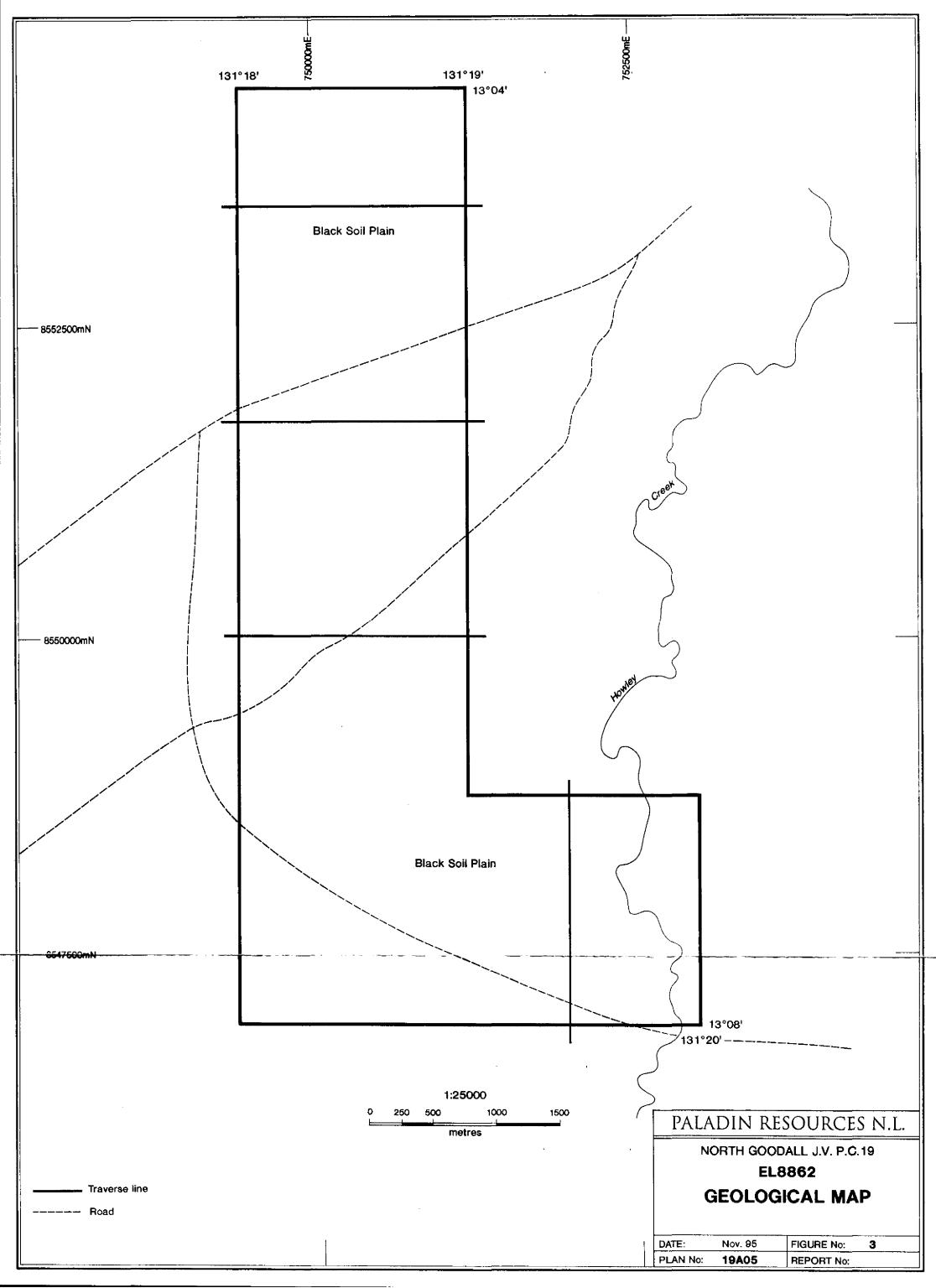
High resolution multi-client aeromagnetic data, covering the tenement and surrounding areas, was purchased from World Geoscience. The survey was flown by Aerodata Holdings Ltd during the period December 1987 - May 1988. The data was used to provide an in-house interpretation of the physical structure in geology of the area. (Figure 2)

4.2 Geological Mapping

The tenement was mapped on aerial photo overlays at a scale of 1:25,000.

The tenement is entirely covered by quartenary alluvial and black soil plain sediments. Minor tertiary laterites were observed in gravel pits. (Figure 3)





5.

STATEMENT OF EXPENDITURE

EXPLORATION LICENCE 8862

COVERING THE PERIOD

15/11/94 TO 14/11/95

CATEGORY	AMOUNT	
	\$	
Salaries & Wages	2317	
Consultants / Contractors	49	
Bulldozing / Grading	-	
Drilling RAB	-	
Drilling PDH/RC	-	
Geochemistry - Stream	-	
Geochemistry - Soil	-	
Geochemistry - Rock Chip / Drill	-	
Geophysics - Airborne	500	
Fuel	50	
Vehicles & Equipment	200	
Camp Operating & Consumables	20	
Travel, Accommodation & Meals	400	
Drafting, Printing & Maps	100	
Subtotal	3636	
Overheads (Standard 12%)	436	
TOTAL	• 4072	