



**3RD ANNUAL REPORT FOR
EL 8734 (PARGEE)**

for the period
09/09/2001 to 08/09/2002

**Mt Frederick
NORTHERN TERRITORY**

Volume 1 of 1

1:250,000 SHEET: Tanami SE52-15

1:100,000 SHEET: Pargee 4758
Mallee 4759

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TENEMENT HOLDERS: Normandy NFM Ltd (trading as Newmont NFM)
Simon Titchner

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Resource Development
☐ Newmont Australia
☐ Simon Titchner

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SUMMARY

The Pargee Exploration Licence 8734 is located in the Granites-Tanami block, approximately 150km north-west of the Granites Gold Mine. The licence was granted on the 9th September 1999. This is the 3rd annual report covering the period 09/09/2001 to 8/09/2002.

Exploration activity over the reporting period has incorporated:

- **Aircore Drilling:** 46 holes for 2075m, 435 samples
(incl. 10 duplicates and 8 standards)

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PAR_WADG1_DOW2002A.TXT
PAR_WADL1_DOW2002A.TXT
PAR_WADS1_DOW2002A.TXT
PAR_WASL1_DRI2002A.TXT
PAR_WASG1_SUR2002A.TXT
PAR_WASG2_SUR2002A.TXT

1 INTRODUCTION

Exploration Licence 8374 was granted to Simon Titchener and subsequently managed by Normandy NFM Limited on 9th September 1999 for a period of six years (Table 1). The area of the tenement stands at 456 blocks for 1468km².

This report covers the Pargee Tenement for the period 09/09/2001 to 24/07/2002.

2 TENEMENT DETAILS

Normandy NFM Limited (NNFM) had signed an Option Agreement with Simon Titchener (a copy of this Agreement has been lodged with the Department). Under the terms of the Agreement NNFM was responsible for all exploration, exploration programs, budgets, statutory reporting and compliance with the Mining Act. NNFM under the terms of the agreement has withdrawn from the agreement effective 22/08/2002. In addition a waiver of reduction has been submitted on behalf of Simon Titchner.

TABLE 1: EL8734 (Pargee) Tenement Summary

Area Name	Blocks	Km ²	Grant Date	Expiry Date	Covenant
Pargee	456	1468	09/09/99	08/09/05	\$70,000

3 LOCATION, ACCESS AND PHYSIOGRAPHY

The Pargee EL is located in the Tanami Desert region, approximately 150km NW of the Granites Gold Mine. The area is covered by the Tanami (SF52-15), 1:250 000 series map sheet, as shown on Figure 1.

Access to the tenement can be gained via the old Tanami Highway, or a seismic line that runs north of the Tanami Road toward the Pargee Range.

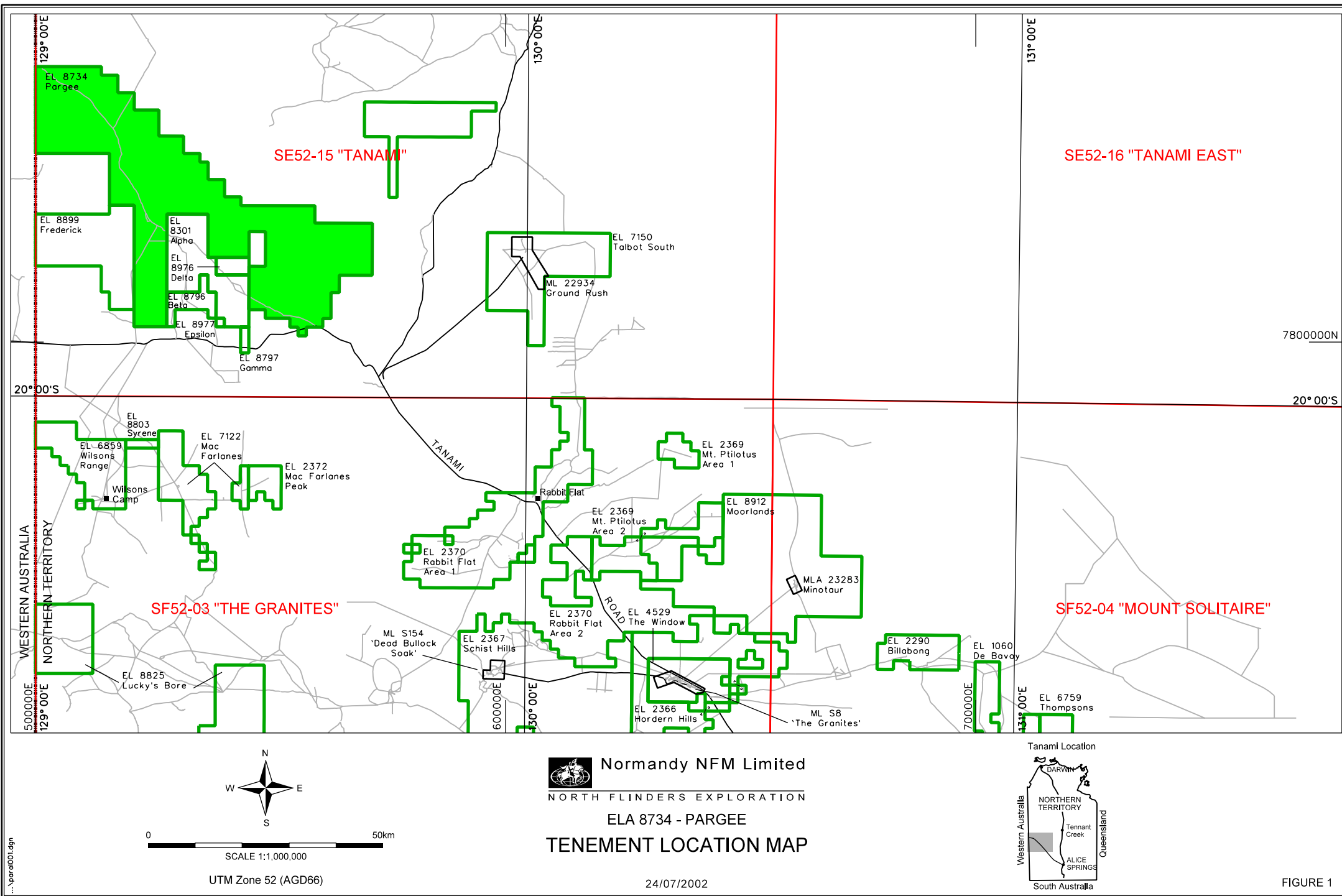
Approximately 70% of the project area is dominated by various thicknesses of alluvial cover, the depth of which is greatest within palaeodrainage systems. Hills and ridges are common in northern and central parts of the project area and range in height from less than 30m to more than 200m above the surrounding plains. They are often steeply incised by narrow channels and creeks, which pass into outwash fans before disappearing into the surrounding sand plains.

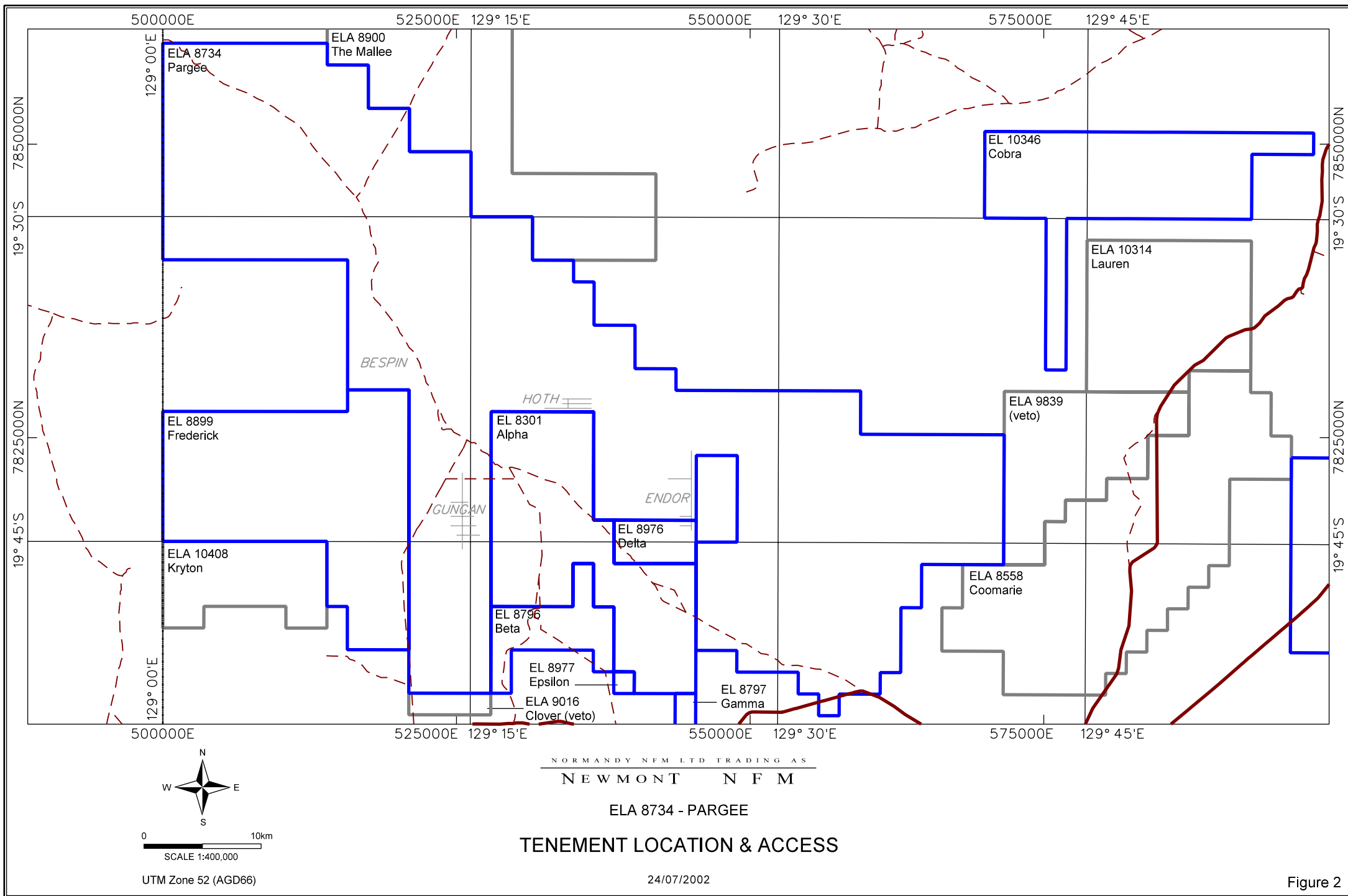
Vegetation is generally sparse, because of the arid climate and predominantly sandy soils, and consists mainly of spinifex with scattered low trees (mostly species of eucalyptus and acacia), shrubs and herbaceous plants. Few trees are taller than 8m with relatively large trees present only along creeks.

There are no permanent watercourses in the region, however water apparently persists at the Pargee Rockhole and in some creeks for at least a few months following seasonal rains.

4 HISTORICAL EXPLORATION

Limited exploration has been undertaken within the region presently occupied by the Pargee Exploration License. Power and Nuclear Corporation (PNC Exploration Australia) explored the district for uranium and gold from 1986-1990. No anomalism is reported within the area.





5 GEOLOGY

The Granites-Tanami Goldfield lies 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 overlapped by younger cover sequences including the extensive Palaeozoic Wiso Basin on its north-eastern margin. To the west, clastic sediments of the Middle Proterozoic Birrindudu Basin overlie and separate the Inlier from similar age rocks in the Halls Creek Province.

Meso Proterozoic Birrindudu Group sediments dominate the northern portion of the reporting area. These comprise mature fluvial sandstones and interbedded shales of the Gardiner formation and to a lesser extent calcareous sediments of the Talbot Well formation. The Birrindudu sediments are unmetamorphosed, shallowly dipping and unconformably overlie Palaeo Proterozoic sediments of the Pargee formation, which is characterised by immature fluvial sandstone and intercalated siltstones. The Pargee sequence unconformably overlies turbiditic greywacke and pelitic sedimentary sequences of the Killi Killi group. The Palaeo Proterozoic units have been subject to complex, polyphase deformation and have reached greenschist facies metamorphism during the regional Barramundi Orogeny. The south-eastern portion of the tenement is dominated by the post orogenic Coomarie Batholith.

6 WORK COMPLETED

6.1 Aircore Drilling

Aircore drilling was used to make an initial regolith and lithological assessment of priority areas (Figure 3).

Drilling method was predominantly aircore blade. Limited slim-line RC hammer was used to crack through thick silcrete layers. All holes were vertical. Three metre composite samples were collected from a hole depth of 18 metres through to the bottom of hole. Duplicates are at 00's and 50's and standards at 25's and 75's.

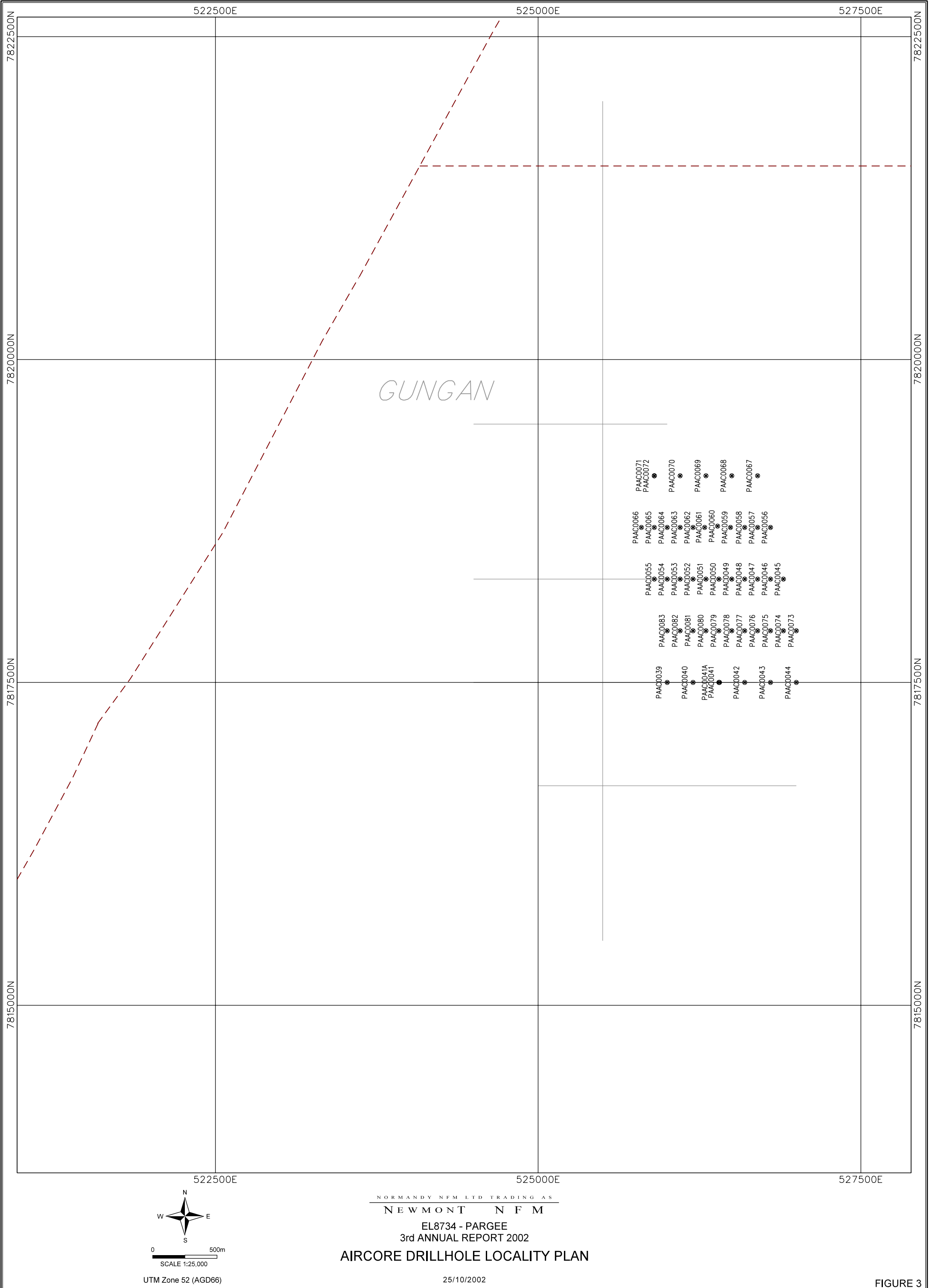
Drilling conditions were challenging with 26 metres of water saturated cover (including 6 metres of nodular free-flowing calcrete), up to 7 metres of hard silcrete and a saprolitic clay horizon. Dominant bedrock lithology was a weakly foliated siltstone. Other lithologies included sandstones and possible chert (boudin) horizons. No intrusives.

Complete assay records and sample descriptions are included in Appendix 1.

Samples were sent to Amdel for multielement analysis by the ARM1 analytical technique (see Table 2 for details) and drill chips were retained for later inspection and storage.

TABLE 2: EL8734 - Pargee Aircore Drillhole Details

Drillhole ID	Total Holes	Metres	Total samples	Sample type	Laboratory	Elements Analysed
PAAC039-083 (incl. PAAC0041A)	46	2075	417	3m composite	Amdel ARM 1 Aqua Regia leach / ICP- MS	Ag, As, Au, Bi, Cd, Co, Cu, Mo, Ni, Pb, Sb, Se, Te, Zn
46 holes for 2075m, 417 samples (plus. 18 QC samples)						



7 EXPENDITURE INCURRED FOR THE REPORTING PERIOD

TABLE 6: EL8734 (Pargee) Exploration Expenditure for the Year to 08/09/2002

COST CENTRE	EL8734 TOTAL
Employee Costs	22,972.53
Operating Costs	18,440.82
Laboratory Costs	4,644.20
Drilling	27,366.50
Specialist Services	4,147.90
TOTAL	\$77,571.95
COVENANT	\$70,000.00

8 FORWARD PROGRAM

As NNFM has withdrawn from the Option Agreement, effective 22/08/2002, further work on the licence will be the responsibility of Simon Titchner. It is anticipated that this work will involve geophysical surveys, surficial sampling and aircore drilling.

9 REFERENCE LIST / ANNUAL REPORT BIBLIOGRAPHY

References

- Blake, D., Hodgson, I.M., and Muhling, P.C., 1979. Geology of The Granites-Tanami Region, Northern Territory and Western Australia, *Bur. Miner. Resour. Geol. Geophys. Aust. Bull.* 197.
- Davidson, A.A. 1905. Journal of Explorations in Central Australia, by the Central Australian Exploration Syndicate, Limited, *South Australia Parliamentary Paper* 27.
- Gee, L.C.E. 1911. General Report on Tanami Goldfield and District (Northwestern Central Australia). *South Australia Parliamentary Paper* 31.
- Hossfeld, P.S. 1940b. The Gold Deposits of The Granites-Tanami District, Central Australia. *Aer. Geol. Geophys. Surv. N.Aust., Northern Territory Report* 43.
- Mayer, T.E. 1990. The Granites Gold Field, in *Geology of the Mineral Deposits of Australia and Papua New Guinea* (Ed F.E. Hughes) pp 719-724 (The Australasian Institute of Mining and Metallurgy: Melbourne).
- Plumb, K.A. 1990. Halls Creek Province and The Granites-Tanami Inlier - regional geology and mineralisation, in *Geology of the Mineral Deposits of Australia and Papua New Guinea* (Ed F.E. Hughes) pp 681-695 (The Australasian Institute of Mining and Metallurgy: Melbourne).

Reports to NTDME

- Power, D. 2000. Annual Report for EL8734 (Pargee) for the Year to 8 September 2000. Normandy NFM Ltd. Normandy CR:27235.
- Power, D. 2001. Second Annual Report for EL8734 (Pargee) for the Year to 8 September 2001. Normandy NFM Ltd. Normandy CR:29121

APPENDIX 1 – DIGITAL DATA

REPORT METADATA FORM

(MINERAL EXPLORATION)

PART A (DME USE ONLY)					
Report Number	Date Received				
Collation	___ pp.	___ figs	___ logs	___ maps	___ apps.
Media	___ CDs	___ 1.5"	___ Exab.	___ DLT	___ vols.

PART B					
Tenure Number(s)	EL8734		Company Report Number	30999	
Report Date	October 2002		Anniversary Date	09/09/**	
Group Project Name	Mt Frederick				
Report Title	3 rd Annual Report for EL8734 (Pargee) for the period 09/09/2001 to 08/09/2002				
Author(s)	M. Walter, D. Power				
Corporate Author(s)	Newmont Australia				
Maps 1 : 250 000	SE52-15				
Maps 1 : 100 000	4758	4759			

Tectonic Units			
<input type="checkbox"/> Amadeus Basin	<input type="checkbox"/> Carpentaria Basin	<input type="checkbox"/> McArthur Basin	<input type="checkbox"/> Pine Creek Inlier
<input type="checkbox"/> Arafura Basin	<input type="checkbox"/> Daly Basin	<input type="checkbox"/> Money Shoal Basin	<input type="checkbox"/> Simpson Basin
<input type="checkbox"/> Arnhem Inlier	<input type="checkbox"/> Dunmarra Basin	<input type="checkbox"/> Murphy Inlier	<input type="checkbox"/> South Nicholson Basin
<input type="checkbox"/> Arunta Inlier	<input type="checkbox"/> Eromanga Basin	<input type="checkbox"/> Musgrave Block	<input type="checkbox"/> Tennant Creek Inlier
<input checked="" type="checkbox"/> Birrindudu Basin	<input type="checkbox"/> Fitzmaurice Mobile Zone	<input type="checkbox"/> Ngalia Basin	<input type="checkbox"/> Victoria Basin
<input type="checkbox"/> Bonaparte Basin	<input type="checkbox"/> Georgina Basin	<input type="checkbox"/> Ord Basin	<input type="checkbox"/> Warburton Basin
<input type="checkbox"/> Browse Basin	<input checked="" type="checkbox"/> Granites-Tanami Inlier	<input type="checkbox"/> Pedirka Basin	<input checked="" type="checkbox"/> Wiso Basin
Other structural units	Coomarie Batholith		

Stratigraphic Names			
Birrindudu Group	Talbot Well Formation	Killi Killi Group	
Gardiner Complex	Pargee Formation		

AMF Thesaurus Terms - General			
<input type="checkbox"/> Geological mapping	<input type="checkbox"/> Regional Geology	<input type="checkbox"/> Stratigraphy	<input type="checkbox"/> Structural Geology
<input type="checkbox"/> Metallogenesis	<input type="checkbox"/> Remote sensing	<input type="checkbox"/> Imagery	<input type="checkbox"/> Landsat
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Other terms ...			

AMF Thesaurus Terms - Target Minerals			
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<input type="checkbox"/> Lead	<input type="checkbox"/> Copper	<input type="checkbox"/> Platinum Group Minerals	<input type="checkbox"/> Industrial Minerals
<input type="checkbox"/> Zinc	<input type="checkbox"/> Uranium	<input type="checkbox"/> Bauxite	<input type="checkbox"/>
Others...			

AMF Thesaurus Terms - Mining			
<input type="checkbox"/> Environmental impact surveys	<input type="checkbox"/> Feasibility studies	<input type="checkbox"/> Geostatistics	<input type="checkbox"/> Metallurgy
<input type="checkbox"/> Ore reserves	<input type="checkbox"/> Resource assessment	<input type="checkbox"/> Mineral resources	<input type="checkbox"/> Mining geology
<input type="checkbox"/> Mine design	<input type="checkbox"/> Mine drainage	<input type="checkbox"/> Mine evaluation	<input type="checkbox"/> Pits
Other terms ...			

AMF Thesaurus Terms - Geophysical Surveys			
<input type="checkbox"/> Aerial magnetic surveys	<input type="checkbox"/> Aerial radioactivity surveys	<input type="checkbox"/> Aerial EM surveys	<input type="checkbox"/> Ground EM surveys
<input type="checkbox"/> Gravity surveys	<input type="checkbox"/> Geophysical anomalies	<input type="checkbox"/> Gravity anomalies	<input type="checkbox"/> Bouguer anomaly maps
<input type="checkbox"/> Sirotem surveys	<input type="checkbox"/> Ground magnetic surveys	<input type="checkbox"/> IP surveys	<input type="checkbox"/> Resistivity surveys
<input type="checkbox"/> Seismic surveys	<input type="checkbox"/> Magnetic anomalies	<input type="checkbox"/> Geophysical interpretation	<input type="checkbox"/> Geophysical logs
Other terms ...			

AMF Thesaurus Terms - Geochemical Exploration – Surface sampling			
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<input type="checkbox"/> Soil sampling	<input type="checkbox"/> Heavy mineral sampling	<input type="checkbox"/> Geochemical anomalies	<input type="checkbox"/> Assaying
<input type="checkbox"/> Isotope geochemistry	<input type="checkbox"/> Whole rock analysis	<input type="checkbox"/> X ray diffraction	<input type="checkbox"/> Sample location maps
Other terms ...			

AMF Thesaurus Terms - Geochemical Exploration - Drill sampling			
<input type="checkbox"/> Diamond drilling	<input type="checkbox"/> RAB drilling	<input type="checkbox"/> Percussion drilling	<input checked="" type="checkbox"/> Air drilling
<input type="checkbox"/> RC drilling	<input type="checkbox"/> Rotary drilling	<input type="checkbox"/> Vacuum drilling	<input type="checkbox"/> Auger drilling
<input type="checkbox"/> Drill core	<input type="checkbox"/> Drill cuttings	<input type="checkbox"/> Drill hole logs	<input type="checkbox"/> Drill core analysis
Other terms ...			

Drilling Type	No. of holes	Hole name(s)
Diamond		
Percussion		
Vacuum		
RAB		
Auger		
Air	46	PAAC0039-0083
RC		
Rotary		
Other ...		

Mine / Deposit / Prospects	Location - AMG	Location - Datum
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Mines			
Deposits			
Prospects	Gungan		
Other ...			