

# **NEWMONT TANAMI PTY LTD**

F	6 <sup>th</sup> ANNUAL REPORT FOR THE BARROW CREEK PROJECT						
Ŷ		for the year ending 31/12/2003					
	EXPLORA	TION EL SE SE	LICENCES COVERED BY THIS REPORT: 10013 ANTELOPE L 10038 THUMPER L 22042 ODYSEUSS				
Ш		NC	ORTHERN TERRITORY Volume 1 of 1				
Ŷ	1:250,000 SHEET:		Lander RiverSF53-01Bonney WellSF53-02Mt PeakeSF53-03Barrow CreekSF53-06				
	1:100,000 SHEET:		Conical Hill5555Jarrah Jarrah5556Numalong5656Crawford5655Taylor5755				
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	TENEMENT HOLDERS:		Newmont Tanami Pty Ltd				
			Newmont Gold Exploration Pty Ltd				
Ζ	DISTRIBUTION:		Northern Territory Department of Business, Industry & Resource Development				
			Newmont Australia				
			Yuendumu Mining Co. NL				
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	March 2004		NEWMONT CR 31404				

#### SUMMARY

This is the sixth annual report for the Barrow Creek Project. As such, it details all exploration activity conducted over the project licences during the calendar year for 2003.

The area covered by the Barrow Creek Joint Venture (BCJV), located approximately 300km north of Alice Springs, is being explored for economic gold mineralisation.

During 2003, Newmont re-negotiated an agreement with the NTDBIRD to modify the group reporting arrangement for the Barrow Creek JV exploration licences to cover EL10013 (Antelope) and SEL10038 (Thumper).

On 8/12/2003 the SEL 22042 (Odysseus) was relinquished in full. A final report has been lodged with NTDBIRD but work completed during the year is also covered in this report.

EL	BCL	LAG	AC	m	samples
EL10013 (Antelope)	94	35	8	471	163
SEL10038 (Thumper)	53	11	33	1902	662
SEL22042 (Odysseus)	42	22	7	420	145
TOTALS:	189	68	48	2793	970

Exploration activities conducted over the reporting period comprised:

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#### **1 INTRODUCTION**

This document is the sixth project group report to be completed for the Barrow Creek JV Project (BCJV). It describes exploration activities associated with exploration licences held by the BCJV, namely EL's 10013, 10038 together with SEL 22042. The document reports on exploration activity covering the period 1<sup>st</sup> of January 2003 through to the 31<sup>st</sup> of December 2003 for the respective licences (Table 1).

### 2 LICENCE DETAILS

Newmont Gold Exploration Pty Ltd (Newmont) and Yuendumu Mining Company NL (YMC) hold the BCJV licences under the terms of the Barrow Creek Joint Venture (BCJV). The tenements are managed by Newmont Exploration. SEL 22042, Odysseus, was part of the BCJV and was relinquished 8/12/2003.

Licence	Detail	Date	Blocks	Km <sup>2</sup>	Title Holder
	Grant:	20/02/2002	48	154	
EL10013	First Relinquishment:	19/02/2004	20	89.5	100% Newmont Gold Exploration Pty Ltd
	Expiry:	19/02/2008			
SEI 10029	Grant:	16/05/2002	303	971	100% Newmont Gold
3EL10030	Expiry:	15/05/2006			Exploration Pty Ltd
SEL 22042	Grant:	09/12/1999	117	370	50% Newmont Gold
3EL22042	Surrender	08/12/03	0	0	50% Newmont Tanami

**TABLE 1: Tenement Summary for BCJV Exploration Licences** 

\* blocks/areas relinquished or surrendered

#### 2.1 LOCATION, ACCESS & PHYSIOGRAPHY

Exploration Licences within the BCJV are located approximately 300km north of Alice Springs and between 20 to 75km north to north-west of Barrow Creek.

Access from Barrow Creek is via the Stuart Highway to the north and then using numerous station tracks of variable but generally good quality. The licences are located on the Stirling and Neutral Junction stations (NT Portion 655 & NT POR. 3375 respectively).

The licence is covered by sandy plains with out dunes but vegetated by thick clumps of mulga, (Haines, P.W. et al., 1991). The Hanson River drains the western part of the plains.

The eastern portion of the licence is bordered to the east and west by the northwest\southeast trending Crawford and Osborne Ranges. These ranges are composed of steeply dipping sandstone.

1





#### **3 HISTORY OF AREA**

#### 3.1 PRE-NEWMONT

Exploration at Barrow Creek has historically been largely for base metals, gold and Sn/W/Ta deposits. Within the Crawford, Osborne and Watt Range areas, numerous copper workings can be found, including Home of Bullion and Petricks. The area to the south of the Crawford Range has been the site of the majority of tin, tungsten and tantalum workings, most being small, low tonnage operations.

Kewanee Australia Pty Ltd undertook a broad exploration program between 1970-1974 within the Crawford-Osborne Range area. Several targets were delineated by a combination of airborne magnetics, radiometrics and EM survey techniques. Targets generated by this method were followed up with geological mapping, sampling and a combination of percussion, reverse circulation and diamond drilling. This work delineated a sub-economic Cu-Ni resource (Prospect D), but grade was considered too low to warrant further investigation, and the ground was relinquished in 1973.

Limited exploration was conducted by Australis Mining NL during 1969, for base metal potential in the Crawford Range area. Pegmatites, granites and metadolerites were targeted with disappointing results.

More recently, Aberfoyle Ltd has explored for firstly base metal mineralisation, and thereafter, gold mineralisation in the Home of Bullion area.

#### 3.2 **NEWMONT EXPLORATION**

Newmont (and its precursor companies) has had an exploration presence in the Barrow Creek area since 1988. Work over this time has included reconnaissance techniques such as soil sampling and vacuum and RAB drilling as well as detailed aeromagnetic/radiometric surveys, regional ground-based gravity surveys and detailed regional regolith mapping.

Detailed prospect evaluation work has also been conducted, including reverse circulation and diamond drilling as well as prospect-based IP surveys.

The gold-mineralised prospects Kroda (8m @ 11.72g/t Au in RC drilling), NW Petricks (6m @ 1.6g/t Au in RC drilling) and Tiptoe (3m at 2.34 g/t in RC drilling) were discovered within the bounds of SEL22042 while the Morphett gold mineralised prospect (several metres at several g/t in RAB drilling) was found within EL7928.

In 1999 although no exploration activities were permitted, an extensive program was undertaken to rehabilitate sites of previous exploration drilling activities. Except for a few diamond holes, PVC collars were cut back below the surface and sealed with concrete plugs.

An independent geological consultant was contracted to provide an approximate resource calculation for the Kroda C5 gold mineralised prospect. As the majority of drilling into the prospect is RAB, the dataset is not of sufficient quality to report to the public. The resource estimate was undertaken in order to give Normandy NFM an independent assessment of the scope and potential of the prospect.

#### 4 GEOLOGY

#### 4.1 REGIONAL GEOLOGY

The oldest exposed basement in central Australia comprises metamorphic and igneous rocks of the Arunta Inlier (Haines et al., 1991). Rocks of the Arunta Inlier are interpreted as being at least partly correlative with sedimentary and volcanic sequences of the adjacent Tennant Creek and Granites-Tanami Inliers.

The Arunta Inlier (Early-Middle Proterozoic) is characterised by metamorphosed sedimentary and igneous rocks of low to medium pressure facies. Deformation and regional metamorphism to upper greenschist facies took place between 1810-1750 Ma (Black, 1981). Shaw and Stewart (1975) established three broad stratigraphic subdivisions based on facies assemblages and lithological correlations. From oldest to youngest, these subdivisions are named Division 1, 2 and 3. Using this model defined by Shaw and Stewart (1975), the orthogneiss east of Osborne Range, the calc-silicate rocks west of Crawford Range and the Bullion Schist would be included in Division 2, and the Ledan Schist in Division 3 of the Arunta Inlier.

Unconformably overlying these rocks are the Hatches Creek Group sediments and volcanics. Blake et al. (1987) formally subdivided the Group into the Ooradidgee, Wauchope and Hanlon Subgroups, comprising a total of 20 Formations and two Members. The Hatches Creek Group is a folded sequence of shallow-water sediments with interbedded volcanic units which reach thicknesses of at least 10,000 metres.

The sediments include ridge-forming quartzites, felspathic, lithic and minor conglomeratic arenites and friable arenite, siltstone, shale and carbonate. The Ooradidgee Subgroup consists mainly of fluvial sediments and sub-aerial volcanics which partly interfinger. The Wauchope Subgroup is characterised by large volumes of volcanics and sediments probably both marine and fluvial in origin. The Hanlon Subgroup may be entirely marine and lacks volcanics (Blake et al., 1987).

Deformation and regional metamorphism took place between 1810-1750 Ma (Black, 1981). Folding was about NW trending axes while metamorphism to upper greenschist facies took place. Later intrusion of both the Arunta basement and the Hatches Creek Group by granitoids of the Barrow Creek Granitic Complex took place around 1660 Ma (Blake et al., 1987). Contact metamorphism and metasomatism are often observed.

Sedimentation associated with the Georgina Basin commenced during the Late Proterozoic with the Amesbury Quartzite and was terminated during the Early Devonian after deposition of the Dulcie Sandstone. The Georgina Basin sequence was mildly affected by the Carboniferous Alice Springs Orogeny.

A long erosional period followed with subsequent deep weathering during the Tertiary produced silcrete and ferricrete horizons. A veneer of Quaternary sands and soils overlays much of the area, except where recent and active alluvial sedimentation is present.

#### 4.2 LOCAL GEOLOGY

Surface geology within the Barrow Creek project consists of thick cover in wash out areas, however on average there is 2-6m of soil cover. The dominant rock type includes mica-sericite schist, interpreted to be part of the Bullion Schist Formation, along with feldspathic and quartz-rich arenites of the Gwynne Sandstone, and intruding granites. A strong NW-SE foliation is observed in the region paralleled by numerous quartz veins. The reader is referred to Mujdrica, 1995b for a geological map of the licence area.

Residual soil and aeolian sand predominantly cover the C1 to C5 anomalies. Dominant rock types include quartz-mica schist with andalusite porphyroblasts (Bullion Schist) and amphibolite lenses, which appear conformable with the schist. Numerous quartz veins parallel S1 schistosity and fracture cleavage planes. The quartz veins are chalcedonic, usually highly fractured and locally gossanous.

Sheared quartz-mica schist (Bullion Schist) and locally epidotised amphibolite dominate NW Petricks. The amphibolite appears conformable to the schist unit as it parallels the S1 schistosity. Bullion Schist outcrops prominently in the area intruded by granite and diorite sills. A highly silicified porphyritic rhyolite with abundant quartz stockwork veining (Mt Strzelecki Volcanics) is also present in the area.

#### 5 EL 10013 - WORK COMPLETED

#### 5.1 RECONNAISSANCE

#### 5.1.1 Surface Sampling

A surface sampling program comprising 35 Lag samples and 94 soil samples was completed within the Antelope EL, see Figure 3 for sample locations. Lag sample locations were targeted to follow up previously reported low level As anomalism. Soil sampling targeted areas mapped as Lander Rock Beds, these are considered prospective host units for gold mineralisation.

Samples were sent to Genalysis and analysed using B/EETA (Au), A/MS (Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W) and A/AAS (Co, Cu, Fe, Ni, Zn) as detailed in Table 2 below.

Results were generally low, < 1ppb Au.

Sample Type	No of Samples	Sample Numbers	Elements Analysed	Genalysis Method
		3634933- 3634967	Au	B/EETA
LAG	35		Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W	A/MS
			Co, Cu, Fe, Ni, Zn	A/AAS
	94	3259596- 3259689	Au	B/EETA
Soil			Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W	A/MS
			Co, Cu, Fe, Ni, Zn	A/AAS

#### TABLE 2: EL 10013 - LAG and Soil Sample Details.

5.1.2

#### **Aircore Drilling**

Aircore drilling was undertaken within the Antelope SEL to test previously reported soil anomalism and to provide a better understanding of the regolith and base rock geology within the licence area. Drillhole locations are plotted in Figure 3.

A total of 8 drillholes for 471m and 163 samples were completed, see Table 3 for program details. Drillholes were drilled at a 60° dip and to a maximum depth of 60m. Samples were sent to ALS for analysis using Au-GF42 and ME-ICP43, see Table 4 for details.

Overall results were generally <1ppb Au.

Drillhole Type	Drillhole ID	No. Holes	Metres	Dip
Aircore	ANTAC0001- ANTAC0008	8	471	-60°

#### TABLE 3: EL 10013 - Drillhole Collar Details.

#### TABLE 4: EL 10013 - Drillhole Sample Details.

Sample Type	Sample ID	No. Samples	No. Samples Elements Analysed	
Aireoro	3180534- 3180600	163	Au	Au-GF42
Ancore	3180701- 3180796		As, Bi, Cu	ME-ICP43

#### 6 SEL 10038 - WORK COMPLETED

#### 6.1 RECONNAISSANCE

#### 6.1.1 Surface Sampling

A surface sampling program comprising 11 Lag samples and 53 soil samples was completed within the Thumper SEL, see Figure 3 for sample locations. Lag sample locations were targeted to follow up previously reported low level As anomalism. Soil sampling targeted areas mapped as Lander Rock Beds, these are considered prospective host units for gold mineralisation.

Samples were sent to Genalysis and analysed using B/EETA (Au), A/MS (Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W) and A/AAS (Co, Cu, Fe, Ni, Zn) as detailed in Table 5 below.

Results were generally low, < 1ppb Au.

Sample Type	No of Samples	Sample Numbers	Elements Analysed	Genalysis Method
	11	3634909- 3634917 3634931- 3634932	Au	B/EETA
LAG			Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W	A/MS
			Co, Cu, Fe, Ni, Zn	A/AAS
	53	3259501- 3259524 3259559- 3259587	Au	B/EETA
Soil			Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W	A/MS
			Co, Cu, Fe, Ni, Zn	A/AAS

#### TABLE 5: SEL 10038 - LAG and Soil Sample Details.

6.1.2

#### **Aircore Drilling**

Aircore drilling was undertaken within the Thumper SEL to test previously reported soil anomalism and to provide a better understanding of the regolith and base rock geology within the licence area. Drillhole locations are plotted in Figure 3.

A total of 33 drillholes for 1902m and 662 samples were completed, see Table 6 for program details. Drillholes were drilled at a  $60^{\circ}$  dip and to a maximum depth of 60m. Samples were sent to ALS for analysis using Au-GF42 and ME-ICP43, see Table 7 for details.

Drillhole Type	Drillhole ID	No. Holes	Metres	Dip
Aircore	THUAC0001- THUAC0033	33	1902	-60°

#### TABLE 6: SEL 10038 - Drillhole Collar Details.

#### TABLE 7: SEL 10038 - Drillhole Sample Details.

Sample Type	Sample ID	No. Samples	Elements Analysed	Genalysis Method
Aircore	3174724- 3175000	000	Au	Au-GF42
	3180001- 3180029 3180175- 3180533	662	As, Bi, Cu	ME-ICP43

#### 7 SEL 22042 - WORK COMPLETED

#### 7.1 RECONNAISSANCE

#### 7.1.1 Surface Sampling

A surface sampling program comprising 22 Lag samples and 42 soil samples was completed within the Odysseus SEL, see Figure 3 for sample locations. Lag sample locations were targeted to follow up previously reported low level As anomalism. Soil sampling targeted areas mapped as Lander Rock Beds, these are considered prospective host units for gold mineralisation.

Samples were sent to Genalysis and analysed using B/EETA (Au), A/MS (Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W) and A/AAS (Co, Cu, Fe, Ni, Zn) as detailed in Table 8 below.

Results were generally low, < 1ppb Au.

Sample Type	No of Samples	Sample Numbers	Elements Analysed	Genalysis Method
		3634900 – 3634908	Au	B/EETA
LAG	AG 22 3634918 - 3634919 3634921 - 3634928 3634930, 3634934, 3634939	Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W	A/MS	
		3634939	Co, Cu, Fe, Ni, Zn	A/AAS
		3259525 – 3259544	Au	B/EETA
Soil	<b>42</b> 3259546 - 3 3259552 - 3 3259588 - 3 3259595	3259546 – 3259549 3259552 – 3259558 3259588 – 3259589	Ag, As, Bi, Mo, Pb, Sn, Sb, Th, U, W	A/MS
		3259595	Co, Cu, Fe, Ni, Zn	A/AAS

#### TABLE 8: SEL 22042 - LAG and Soil Sample Details.

7.1.2

#### **Aircore Drilling**

Aircore drilling was undertaken within the Odysseus SEL to test previously reported soil anomalism and to provide a better understanding of the regolith and base rock geology within the licence area. Drillhole locations are plotted in Figure 3.

A total of 7 drillholes for 420m and 145 samples were completed, see Table 9 for program details. Samples were sent to ALS for analysis using Au-GF42 and ME-ICP43, see Table 10 for details.

Overall results were generally <1ppb Au, the best results returned were:

ODYAC0004 - 3m @ 9ppb Au

ODYAC0006 - 3m @ 8ppb Au

#### TABLE 9: SEL 22042 - Drillhole Collar Details.

Drillhole Type	Drillhole ID	No. Holes	Metres	Dip
Aircore	ODYAC0001- 0007	7	420	-60°

#### TABLE 10: SEL 22042 - Drillhole Sample Details.

Sample Type	Sample ID	No. Samples	Elements Analysed	Genalysis Method
Aircore	3180030 –	145	Au	Au-GF42
	3180174	145	As, Bi, Cu	ME-ICP43



Aircore Drillhole



#### 8 REFERENCE LIST/ANNUAL REPORT BIBLIOGRAPHY

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Whittaker, E.J, 2002. 4<sup>th</sup> Annual Report for the Barrow Creek Project Covering the 2001 Field Season. Newmont Gold Exploration Pty Ltd. Newmont CR: 29466.

Appendix 2

Northern Territory Department of Business, Industry & Resource Development

# 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)	EL 10013 SEL 10038 SEL22042			Company R Number	eport	port 31404				
Report Date	February 20	04		Anniversary	Date	31/03	8/**			
Group Project Name	Barrow Cree	Barrow Creek								
Report Title	6 <sup>th</sup> Annual Report for the Barrow Creek Project for the year ending 31/12/2003.									
Author(s)	M. Walter									
Corporate Author(s)	Newmont G	old Exp	oloratio	on						
Maps 1 : 250 000	SF53-01		SF53	3-02 SF53-05 SF53-			-06			
Maps 1 : 100 000	5555	555	56	5655	5656	5755				

Tectonic Units			
Amadeus Basin	Carpentaria Basin	McArthur Basin	Pine Creek Inlier

	Arafura Basin	Daly Basin	Money Shoal Basin	Simpson Basin
	Arnhem Inlier	Dunmarra Basin	Murphy Inlier	South Nicholson Basin
~	Arunta Inlier	Eromanga Basin	Musgrave Block	Tennant Creek Inlier
	Birrindudu Basin	Fitzmaurice Mobile Zone	Ngalia Basin	Victoria Basin
	Bonaparte Basin	Georgina Basin	Ord Basin	Warburton Basin
	Browse Basin	Granites-Tanami Inlier	Pedirka Basin	Wiso Basin
Other structural units				

Stratigraphic Names							
Lander Rock Beds							

AN	AMF Thesaurus Terms - General									
	Geological mapping		Regional Geology		Stratigraphy		Structural Geology			
	Metallogenesis		Remote sensing		Imagery		Landsat			
	Petrology		Lithology		Literature reviews		Metamorphism			
	Lineaments		Photogeology	~	Reconnaissance		Indicator minerals			
Other terms										

AMF Thesaurus Terms - Target Minerals								
✓ Gold	□ Silver	🗆 Tin	Diamonds					
□ Lead	Copper	<ul> <li>Platinum Group Minerals</li> </ul>	Industrial Minerals					
Zinc	🗆 Uranium	Bauxite						
Others								

AN	AMF Thesaurus Terms - Mining								
	Environmental impact surveys		Feasibility studies		Geostatistics		Metallurgy		
	Ore reserves		Resource assessment		Mineral resources		Mining geology		
	Mine design		Mine drainage		Mine evaluation		Pits		
Other terms									

AMF Thesaurus Terms - Geophysical Surveys							
	Aerial magnetic surveys		Aerial radioactivity surveys		Aerial EM surveys		Ground EM surveys
	Gravity surveys		Geophysical anomalies		Gravity anomalies		Bouger anomaly maps
	Sirotem surveys		Ground magnetic surveys		IP surveys		Resistivity surveys
	Seismic surveys		Magnetic anomalies		Geophysical interpretation		Geophysical logs
Other terms							

AMF Thesaurus Terms - Geochemical Exploration – Surface sampling						
<ul> <li>✓ Geochemical sampling</li> </ul>	Stream sediment sampling	t 🛛 Rock chip sampling	Bulk sampling			
✓ Soil sampling	Heavy mineral sampling	Geochemical anomalies	✓ Assaying			
Isotope geochemistry	Whole rock analysis	X ray diffraction	<ul> <li>✓ Sample location maps</li> </ul>			
Other terms	Lag sampling					

AMF Thesaurus Terms - Geochemical Exploration - Drill sampling							
🗆 Dia	amond drilling		RAB drilling		Percussion drilling	~	Aircore drilling
🗆 RC	c drilling		Rotary drilling		Vacuum drilling		Auger drilling
🗆 Dril	ll core		Drill cuttings		Drill hole logs		Drill core analysis
Other terms							

Drilling Type	No. of holes	Hole name(s)
Diamond		
Percussion		
Vacuum		
RAB		
Auger		
Air	48	ANTAC0001-0008, THUAC0001-0033, ODYAC0001-ODYAC0007
RC		
Rotary		
Other		

Mine / Deposit / Prosp	pects	Location - AMG	Location - Datum
Mines			
Deposits			
Prospects			
Other			