

TANAMI EXPLORATION N.L. ABN 45 063 213 598

FOURTH

ANNUAL REPORT

EL 23122 ' Krakatoa'

HOME OF BULLION PROJECT

For Year Ending 5 February 2007

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KT_WASG3_SURF_2007A KT_WASG3_SSASSAY_2007A TGNL Geological Codes Rockchip samples Rockchip samples normalised Description of geology codes

1.0 SUMMARY

Tanami Gold NL identified the potential for Palaeoproterozoic gold mineralisation and Neoproterozoic base metals mineralisation in the Home of Bullion region of Central Australia in 1998. The tenements of the Home of Bullion Project are situated in Central Australia, approximately 230 kilometres north of Alice Springs (Figure 1). The tenements are situated in close proximity to the boundary between the Arunta Region and the Southern Georgina Basin

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EL 23122 'Krakatoa' is the remaining tenement in the Home of Bullion Project. It was granted on 3 February 2003 to Tanami Exploration NL (TENL), a wholly owned subsidiary of Tanami Gold NL (TGNL).

Exploration in 2006 consisted of regional rock chip sampling over the Ledan corridor. A total of three samples taken on EL 23122 returned a best result of 193 ppb (0.193 ppm) Au from float derived from a coarsely crystalline massive quartz (50%)-specular haematite (50%) vein.

2.0 INTRODUCTION

The Home of Bullion Project is located approximately 230 kilometres north of Alice Springs. Access to the project area is via the Stuart Highway and station tracks, with the Alice-Darwin Railway service track providing further access throughout the project area.

3.0 TENURE

The Home of Bullion Project originally included tenements EL 23122 'Krakatoa', EL 10051 "Illoquara' and EL 10050 'Millionaires Well'. EL 10051 and EL 10050 were surrendered during the reporting year.

TENL is the registered holder of E 23122 'Krakatoa, while further tenement details are listed in Table 1.

Table 1:Tenement Details

Tenement	Tenement No.	Blocks	Km ²	Grant Date	Expiry	Current Covenant
Krakatoa	EL 23122	172	549	3-Feb-03	2-Feb-09	\$23,000

For the purposes of conducting initial reconnaissance exploration, a 'self clearing' program was granted by the CLC in April 2003, whereby TENL could conduct a geological appraisal of the tenements and wide-spaced non-systematic ('grab') sampling to assess prospectivity. Areas of possible cultural significance recorded within the Aboriginal Areas Protection Authority (AAPA) database were noted and avoided.

4.0 GEOLOGY

The Home of Bullion Project tenements cover parts of the northern Arunta Inlier and the southern margin of the Georgina Basin. The surface geology has been mapped and described by the Northern Territory Geological Survey (NTGS) in the 1:250 000 scale Barrow Creek (SF53-6) sheet and explanatory notes (Haines *et al.* 1991). About 60–70% of the tenement area comprises outcropping Palaeoproterozoic crystalline Arunta basement rocks and Neoproterozoic to Palaeozoic Georgina Basin







sedimentary sequences. The remaining areas are covered by Cainozoic sediments, predominantly variably vegetated colluvium, uncemented aeolian sand plains and dunes.

The Palaeoproterozoic Arunta basement rocks consist of tightly folded metasediments intruded by massive granites of the Barrow Creek Granite Complex. The metasediments have been mapped as the Bullion Schist to the north-east and the Ledan Schist to the south-west. The Bullion schist is an interbedded sequence of schists with minor micaceous arenite and metamorphosed felsic volcanics. The Ledan Schist is dominated by tourmaline-bearing biotite-muscovite-quartz schist with lesser interbedded quartzite, metamorphosed conglomerate, metamorphosed felsic rocks and amphibolite.

The Bullion and Ledan Schists are belived to be lateral equivalents of the Lander Group, which in turn is interpreted to be contiguous with the Killi Killi Formation – a host unit to major Au mineralisation in the Tanami region.

The Bullion and Ledan Schists form inliers within the Neoproterozoic Georgina Basin sediments, and where outcropping, were tested for gold mineralisation. Along strike to the northwest the Bullion Schist hosts the abandoned Home of Bullion copper mine. In addition to copper, the Home of Bullion deposit is also enriched in lead, zinc, silver and gold. Quartz-tourmaline and tourmaline-pegmatites also occur within the Bullion Schist, and become increasingly common in the northern exposures. In the northernmost exposures (adjacent to the Stuart Highway) tourmalinised metasediments host a number of minor W, Sn and Ta mineral occurrences.

The Ledan Schist is probably a lateral equivalent to the Home of Bullion Schist and has a lower metamorphic grade in the project area. The Ledan Schist is considered more prospective for vein-related gold-only mineralisation as a result.

The **Wapiti** gold prospect, situated on EL 23122, comprises intensely deformed pelitic schist with thin psammitic interbeds. These rocks are considered to be part of the Ledan Schist sequence (Haines *et al.*, 1991). In general, the metasediments have been intensely altered to fine white mica and cut by numerous generations of quartz veins. The dominant foliation is sub-parallel to bedding and dips steeply towards 240°. A major northwest-trending fault runs along the eastern flank of a prominent strike ridge and separates a more prospective area with abundant quartz veins to the east from one with coarser metasediment and few quartz veins. This fault is probably a splay off the regional Stirling Fault (Haines *et al.*, 1991).

5.0 PREVIOUS EXPLORATION

The Home of Bullion tenements are situated within what TGNL calls the Delny-Mount Sainthill corridor, which broadly coincides with the western margin of the Georgina Basin. Limited modern exploration has been undertaken along this corridor, although the discovery of Au-bearing quartz veins at the Wapiti prospect by Normandy in 1998 (1.36 g/t Au) provides evidence for epithermal gold in the Delny-Mount Sainthill corridor. Resampling of this vein in 1999 produced 5.52 g/t Au.

Exploration by TENL in the **first** year of tenure consisted of regional reconnaissance. The Palaeoproterozoic Bullion and Ledan Schists, which occur in the form of basement inliers, were explored for gold mineralisation mainly in the north west of EL 23122 'Krakatoa' and the Wapiti area in the south east of EL 23122. A red bed sequence from the Neoproterozoic southern Georgina Basin was the target for base metals mineralisation.

A total of 48 rockchip samples, 15 soil samples and 257 fine lag samples were taken. No significantly elevated gold or base metal values were returned from the reconnaissance sampling, apart from a best result of 21 ppb Au in the Wapiti area.

Exploration in the **second** year of tenure consisted of further reconnaissance / rockchip sampling at the Wapiti prospect as well as investigating the Stirling Fault to the north. A total of thirteen samples were collected at the Wapiti prospect along an east-west traverse, including quartz veins with abundant specular haematite and Fe-oxide alteration. Four samples returned elevated Au-Cu values, although the original >1 g/t Au result was not repeated by additional sampling. The best result was 98 ppb Au from a 1 m wide quartz vein with significant FeMn-oxide staining and inclusions. No anomalism was noted in the altered country rock.

The Stirling Fault (see above geology) is a major northwest-trending fault which comprises the boundary between Ledan and Bullion Schist about 1500 m north of Wapiti (Haines *et al.*, 1991). To investigate the affect of the Stirling Fault on younger rocks, an area immediately north of Millionaire's Well was visited, where the Stirling Fault cuts the Adnera Member of the Central Mount Stuart Formation. Here, the fault defines a narrow topographic depression in the ridge-forming, coarse-grained, bedded sandstone of the Adnera Member. There is no evidence of alteration or veining, and hence the mineralisation at Wapiti is probably not related to Palaeozoic tectonic events, such as the Alice Springs Orogeny, despite these major faults being active at this time.

No field exploration was carried out in the third year of tenure.

6.0 FOURTH YEAR EXPLORATION

A regional reconnaissance was carried out over the Ledan Corridor to attempt to define the boundaries of the prospective Ledan Schist host unit. The Ledan schist is considered to be a prospective host for gold mineralisation. Selected outcrops of Ledan Schist along the entire length of the corridor were visited as well as the western extent of the mapped retrograde greenschist facies along the Delny-Mt Sainthill shear zone.

The **Wapiti** Prospect area was earmarked for further exploration in 2006. Abundant haematite-quartz veins are hosted by Ledan Schist metasediments near the contact with quartz-epidote altered metamafic rock, rhyolite and nearby quartz porphyry. A total of three samples taken on EL 23122 returned a best result of 193 ppb (0.193 ppm) Au from float derived from a coarsely crystalline massive quartz (50%)-specular haematite (50%) vein. A more thorough lag and rock chip sampling program is planned.

7.0 EXPENDITURE AND EXPLORATION BUDGET

The annual expenditure and exploration programs and budget has been reported separately.

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. Unpublished Tanami Gold NL In-house report.



Weathering and Other Events

Base of transported BOA Base of complete oxidation BOCO Top of palaeochannel TOP Top of saprolite TOSA Top of saprock TOSR Top of fresh rock TOFR Top of basement TOB Water table WΤ

Colour	
Black	bk
Blue	bl
Blue-green	bg
Brown	br
Cream	CW
Green	gr
Green-grey	gg
Grey	gу
Grey-brown	gb
Olive green	og
Orange	or
Orange-brown	ob
Pink	pk
Purple	pu
Red	rd
Red-brown	rb
Transluscent	tt
White	wh
Yellow	ye
Yellow-brown	yb
Yellow-green	уg
* Light (I) and dark (d) prefix optiona	I

GEOLOGY **Regolith Variant** LOGGING CODES May 2006 **Regolith Group** Aeolian EO Alluvium AL Calcrete CT Clay Zone CY Colluvium CV

FK

GS

LA LE

LG

LT

ΜZ

SR

SA

SC

SL

TR

D

Μ

W

S

Ferricrete

Lacustrine

Lacustrine Evaporites

Lateritic Residuum

Sample Condition

Moist – can be moulded by

Wet – a slurry that is wet to the touch, but no free water

Saturated – sample suspende in free running water, note that water may contain suspended clay particles and therefore be discoloured

hand but not wet to the touch

Mottled Zone

Saprock

Saprolite

Transported

Dry – no water

Silcrete

Soil

Gossan

Lag

	Bleached	DI
	Breccia	bx
	Calcareous	ca
	Carbonaceous	CS
	Chert	ch
	Clay	су
	Duricrust	du
	Ferruginuous	fe
	Goethite	go
	Gravel	gv
	Gypsum	gm
	Haematite	hm
	Halides	ha
	Hardpanised/Indurated	hp
	Iron Segregation	is
	Kaolinite	kn
	Lateritic	lt
	Lignite/Plant material	lg
	Limonitic	li
	Lithic Fragments	lk
	Loess	lo
	Mega-Mottled	mb
	Mn-Co-Fe	mf
	Mottled	mu
	Mud	md
	Nodules	nd
	Nontronitic	no
	Pisoliths	ps
	Quartz	qt
	Sand	sd
	Siliceous	SI
	SIII	st
	Silty clay	ys
	Smectite	sg
	Oxidised sulphides	OS
	Taic White mise	tC
	white mica	wm

WeatheringFresh rockNo visible signs of rock weatheringFRSlightly weatheredStained along discontinuity surfaces, original colour and texture recognisableSWModerately weatheredStained throughout, original texture recognisable throughoutMWHighly weatheredOriginal colour and hardness severely altered, some texture visibleHWCompletely weatheredRock exhibits soil-like properties (ie can be remoulded), some rock fragments may remairCW

Hardness	
Unconsolidated	UC
Very weak - may be broken by hand	VW
Weak - Crumbles under firm blow with sharp end of geological hammer	W
Moderately weak - Cannot be cut by hand into triaxial specimen	MW
Moderately strong - 5mm indentation with sharp end of geological hammer	MS
Strong - Hand held specimen can be broken with single blow of geological hammer	S
Very strong - More than one blow of geological hammer required to break specimen	VS
Extremely strong - More than one blow of geological hammer required to break specimen	ES

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Muscovite ms Magnetite mt Monazite mz Nontronite no Nepheline np Oxide od	Manganese	mn
Muscovite ms Magnetite mt Monazite mz Nontronite no Nepheline np Oxide od	Montmonilonite	mr
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Nepheline np Oxide od	Nontronite	
Oxide od	Nondonie	110 nn
	Ovide	nh Uh
Olivine	Olivine	ol
Opalised on	Opalised	on

Variante Minora	
Oxidised sulpride	05
Dhlaganita	0X Da
Philogopite	pg
Phosphate(IC)	pn
Plagioclase	рі
Pyroxene	рх
Quartz	qt
Rutile	ru
Sanidine	se
Sphene	sf
Smectite	sg
Siderite	sj
Sillimanite	sm
Cassiterite	sn
Staurolite	SO
Sphalerite	sp
Serpentine	sr
Sulphur	sv
Sylvite	sy
Talc	tc
Tremolite	tm
Tourmaline	to
Wolframite	wf
White Mica	wm
Zircon	7r
Zeolite	21 71
	<u> </u>
	20
Variants - Sulphides	/ Ore
Variants - Sulphides Minerals	/ Ore
Variants - Sulphides Minerals Arsenopyrite	/ Ore as
Variants - Sulphides Minerals Arsenopyrite Azurite	/ Ore as az
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite	/ Ore as az bn
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite	/ Ore as az bn cc
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite	/ Ore as az bn cc cp
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chalcopyrite	/ Ore as az bn cc cp cr
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper_pative	/ Ore as az bn cc cp cr
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native	/ Ore as az bn cc cp cr cu cv
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite	/ Ore as az bn cc cp cr cu cv cv
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite	/ Ore as az bn cc cp cr cu cv cv ct
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum	/ Ore as az bn cc cp cr cu cv ct el
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite	/ Ore as az bn cc cp cr cu cv ct el en al
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena	/ Ore as az bn cc cp cr cu cv ct el en gl
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native	/ Ore as az bn cc cp cr cu cv ct el en gl au
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite	/ Ore as az bn cc cp cr cu cv ct el en gl au ml
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Molybdenite	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Nickeliferous Deptionadite	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo nk
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Molybdenite Nickeliferous Pentlandite	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo nk pn
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Molybdenite Nickeliferous Pentlandite Pyrite	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo nk pn py
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Molybdenite Nickeliferous Pentlandite Pyrite Pyrrhotite	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo nk pn py po
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Molybdenite Nickeliferous Pentlandite Pyrite Pyrrhotite Scheelite	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo nk pn py po sc
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Molybdenite Nickeliferous Pentlandite Pyrite Pyrrhotite Scheelite Silver	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo nk pn py po sc ag
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Molybdenite Nickeliferous Pentlandite Pyrite Pyrrhotite Scheelite Silver Stibnite	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo nk pn py po sc ag sb
Variants - Sulphides Minerals Arsenopyrite Azurite Bornite Chalcocite Chalcopyrite Chromite Copper, native Covellite Cuprite Electrum Enargite Galena Gold, native Malachite Molybdenite Nickeliferous Pentlandite Pyrite Pyrrhotite Scheelite Silver Stibnite Sulphide	/ Ore as az bn cc cp cr cu cv ct el en gl au ml mo nk pn py po sc ag sb su

Variants - Texture	
Adcumulate	at
Agglomerate	al
Amygdaloidal	ay
Banded	bd
Breccia	bx
Cherty	ch
Chill margin	CZ
	cg
Crystal Luff	tx
Cumulus Downholo fining	cm طر
Downhole lining	di fa
Fine-grained	ig f z
Flow top breccia	۱۲ fv
Gradational	at
Granophyric	an
Groundmass	ad
Lamination	lm
Lapilli Tuff	tl
Lenticular bedding	lc
Lithic	lk
Massive	ma
Matrix	mx
Medium-grained	mg
Mesocumulate	mc
Migmatitic	mm
Muddy	md
Oolitic	00
Orthocumulate	OC
Phyllitic	pi
Pillowed	pw
Poorly sorted	ps
Porphyrablaatia	pp
Porphyroplastic	aq
Sondy	pc
Shaley	su
Silicification	्रा
Silty	st
Spinifex	SX
Tuff	tf
Uphole finina	uf
Volcanic breccia	vb
Volcaniclastic	VC
Wallrock	wr
Welded Tuff	tw

Grainsize		Sed	lg/Meta	Facing	
Clay	су	<1/256 mm	NA	Up	
Silt	st	1/256 - 1/32 mm	NA	Down	
Very Fine	vf	1/32 - 1/8 mm	<0.1 mm	Both	
Fine	fg	1/8 - 1/4 mm	0.1 - 1mm		
Medium	mg	1/4 - 1/2 mm	1 - 3 mm	Contact	
Coarse	ca	1/2 - 1mm	3 - 10 mm	Sharp	S
Very coarse	va	1 - 2 mm	>10mm	Undulose	Ŭ
Granule	an	2 - 4mm	NA	Gradational	G
Pebble	pb	4 - 64 mm	NA	Vein	V
Cobble	cb	64 - 256 mm	NA	Faulted/sheared	F
Boulder	bu	>256	NA		
Peqmatitic	pa	NA	>30mm		
Stratigraphy/Beds					
Formal		Informal		Regolith	
Gardiner Sandstone	GS	Phat Sandstone	PS	Regolith Layer A	LA
Antrim Plateau Basalt	AP	Marker Siltstone	MS	Regolith Layer B	LB
Killi Killi Fm	KK	Marker Siltstone, inferred	iMS	Regolith Layer C	LC
Bald Hill Sequence	BH	Irvine Conglomerate	IG	Regolith Layer D	LD
		Black Shale Bed	BS	Upper Mobile Zone	UM
		Coyote No.1 Fault	CF	Lower Mobile Zone	LM
		Coyote fold hinge	FA		
Deformation Type					
Boudinaged	BD				
Brecciated	BX				
Crenulated	CR				
Folded	FD				
Fractured weakly	CW	more than 10cm fracture spacing			
Fractured moderately	CM	2-10cm fracture spacing			
Fractured strongly	CS	less than 2cm fracture spacing			
Foliation weak	FW	most grains undeformed, deformatio	n restricted to di	srete planes	
Foliation moderate	FM	more than half grains broken, flatten	ed or elongated		
Foliation strong	FS	primary textures completely destroye	ed		
Lineated	LN				
Alteration Style		Alteration Interactor			
Alteration Style	50	Alteration Intensity			14/4
Fracture Controlled	FC	Weak:partial replacement of primary	minerals		VVA
Foot wall (VMS)	FVV	Moderate: alteration approx. equal p	roportion to prim	hary minerals	MA
Hanging wall (VIVIS)		Strong: alteration dominant, some pi	imary minerals i	remain	SA
Patchy	PI	Intense: total replacement of primary	minerals		IA
Pervasive	PV				
Selective Replacement	SK		A N I	vein texture	
vein Seiveage	SV	Anastomosing	AN	BUCK	BK
		Boudinage	BO	Breccia	BX
Structure / Lithology Events	000		EE ==		CB
Bedding	BED	Folded	FD	Colloform	CF
Cleavage	CLV	Planar	PL	Chalcedonic	CH
Contact	CNT	Ptygmatic	PT	Fibrous	FB
Crenulation	CRN	Sigmoidal	SG	Infill	IN
Fault	FLT	Stockwork	SW	Laminated	LM
Fold axis (plane)	FLD			Milky	ML
Fold hinge (lineation)	HNG	Mineralisation Style		Recrystallised	RX
Foliation	FOL	Blebs	BB	Replacement	RP
Fracture	FRK	Disseminated	DS	Saccaroidal	SC
Joint	JNT	Interstitial Network	NW	Smokey	SM
Lineation	LIN	Massive	MA	Vuggy	VG
Layering	LYR	Stockwork	MW	Tension gashes	VT
Schistocity (s-fabric)	SCH	Stringers/Veinlets	SE		
Shear zone/plane (c-fabric)	SHZ	Vein halo	VH		
Slickenside	SLK				
Vein	VEIN				