### SOUTHERN TANAMI JOINT VENTURE

## Otter Gold NL (earning) Placer Dome

TANAMI REGION NORTHERN TERRITORY

2<sup>nd</sup> ANNUAL REPORT For EXPLORATION LICENCES

> EL7908 EL8526 EL9833 EL9845

17<sup>th</sup> OCTOBER 2002 to 16<sup>th</sup> OCTOBER 2003

The Granophyre 2 Agreement

Volume 1 of 1

Newmont Report No: 31298

Compiled By: M.Muir

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Newmont Exploration

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### SOUTHERN TANAMI JOINT VENTURE

**TITLE:** 2<sup>ND</sup> ANNUAL REPORT FOR EXPLORATION LICENCES

(ELs) 7908, 8526, 9833 & 9845 – The Granophyre 2

Agreement

**PERIOD:** 17<sup>th</sup> OCTOBER 2002 to 16<sup>th</sup> OCTOBER 2003

**REPORT No.:** 31298

**COMPILED BY:** M. MUIR

**LOCATION:** GRANITES 1:250,000 SE 52-3

FRANKENIA 1:100,000 4857 INNINGARRA 1:100,000 4856

**COMMODITY:** GOLD

**DATE:** NOVEMBER 2003

**KEYWORDS:** AIRCORE DRILLING, DRILLING, GEOCHEMICAL SAMPLING,

REGIONAL GEOLOGY, PROTEROZOIC, VERY LOW GOLD

DETECTION ANALYSIS.

### **SUMMARY**

This is the second annual report for tenements of the Granophyre 2 Agreement (ELs 7908, 8526, 9833 & 9845). Tenements were granted on the 17/10/01.

Activities during the second reporting period included drilling of five regional regolith holes across ELs 8526, 9833 & 9845. These Licences were surface sampled on a regional scale (500m x 500m). No significant results were recorded but clusters of elevated results were noted. Work on EL 7908 included a review of data available in the assessment of tenements for the upcoming 2004 budget. No safety or environmental issues were reported during the second year of tenure.

All of the area covered by the subject ELs remains under STJV title and therefore details covered in this report should remain on **CLOSED FILE**.

Exploration Licence	No. of Surface Samples	High Result	Drillhole IDs	Drilling No. Holes	Drilling Metres
EL8526	55	1.98ppb Au	REC0008 - REC0009	2	93m
EL9833	57	2.36ppb Au	REC0006 - REC0007	2	168m
EL9845	49	2.32ppb Au	REC0001	1	69m

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### 1.0 INTRODUCTION

This report contains details of exploration activities conducted by Newmont Exploration staff within ELs 7908, 8526, 9833 & 9845 for the period 17<sup>th</sup> October 2002, to 16<sup>th</sup> October 2003. These tenements are part of the Granophyre 2 Agreement and thus the tenements are regarded as a single area for the purposes of reporting.

### 2.0 LOCATION AND EXPLORATION HISTORY

### 2.1 Location and Access

The tenements are located approximately 550km (EL7908, 8526, 9833 & 9845) northwest of Alice Springs along the Tanami Track (Figure 1).

Main access to the tenements is by the Tanami Track and then via the Tanami Downs Road. EL7908 may be accessible via old North Flinders Mining Tracks to the old Officer Hill tenements. Access to most areas is limited during the wet season (December to April).

### 2.2 Tenement Status

The following table details relevant information relating to tenement status:

Tenement	Year	Area(sq km)	Blocks	Rent (\$) YE 16/10/03	Covenant (\$) YE 16/10/03
EL 7908	2/6	38	12	132	6,000
EL 8526	2/6	13	5	55	7,000
EL 9833	2/6	14	6	66	5,000
EL 9845	2/6	13	4	44	8,000

Table 1: Tenement Status

In December 2001 – January 2002 Normandy NFM gained a controlling interest in Otter Gold NL, the Normandy NFM team took control of Mining Leases and Exploration ground. By May 2002 Newmont Australia had taken over Normandy and had a controlling interest in Normandy NFM (now Newmont Tanami Pty Ltd) and thus Otter Gold NL.

### 2.3 Exploration History

### 2.3.1 Exploration completed between 17<sup>th</sup> October 2001 to 16<sup>th</sup> October 2002

First year work programmes were put on hold within this region with the change of control in Otter Gold NL. Work priorities needed to be assessed. Work during this year involved remote discrimination of targets using an enhanced geophysical technique, the multiscale edge analysis (worming) process (developed by Fractal Graphics) that Otter Gold applied over the Tanami Region. The worming process was designed to generate targets within stratigraphic units with moderately to strongly contrasting internal magnetic signatures. The re-imaging of the worm data (multi scale edge analysis) delineated one target within EL7908 only (worm target 87). No targets were delineated using geochemistry as most of the tenement require a first pass geochemical survey.

### 3.0 GEOLOGY

### 3.1 Regional Geology

The Granites – Tanami Block is bounded to the west by the Canning Basin, and to the east by the Wiso Basin and is considered to be one of the western most Palaeoproterozoic inliers of the Northern Australian Orogenic Province. The block is thought to have developed around the Barramundi Orogeny – major event 1845 – 1840 Ma (Blake et al., 1979).

The stratigraphy of the Tanami Region has been revised as a result of an intensive study recently completed by the NTGS (Hendrickx et al., 2000). The stratigraphy outlined by Blake et al (1979) has had some significant modifications (Table 2).

The Archaean Billabong Complex and Browns Range Metamorphics are the oldest rocks in the area. Browns Range Metamorphics comprise granitic gneiss and muscovite schist intruded by fine-grained granite, thin granitic sills, aplite and pegmatite. The Billabong Complex comprises banded granitic gneiss', which are generally elongated and fault bound.

Lying unconformably above the Archaean basement is the Palaeoproterozoic McFarlane Peak Group. These rocks are characterised by a thick sequence of mafic volcanic, volcaniclastic and clastic sedimentary rocks, which possess a distinctive magnetic and gravity signature. This package of rocks is structurally complex and is considered to have a tectonic contact with the overlying Tanami Group.

The Tanami group is subdivided into three formations:

Twigg Formation: purple siltstone with minor sandstone and chert

Killi Killi Formation: turbiditic sandstone

Dead Bullock Formation: siltstone, mudstone, chert and banded iron formation

Blake et al (1979)				Hendrickx et al (2000)				
Birrindudu		Co	Coomarie Sandstone		Birrindudu	Coomarie		
Group						Group	Sandstone	Suplejack
		Tal	lbot We	ell Form	ation		Talbot Well	Downs
							Formation	Sandstone
		Ga	rdiner S	Sandstor	ne		Gardiner	
							Sandstone	
Suplejack Dov	wns Sar	ndston	e				Nanny Goat Creek	Volcanics
Mount Winne	cke						Mount Winnecke Group	
Pargee Sandst	one					Pargee	Mount Charles Formation	
		Sandstone						
Tanami	Mt.	Killi				Tanami	nami Killi Killi Formation	
Complex	Charles Beds	Killi Beds	Goat Creek	Beds	Creek Beds	Group	Twigg Formation	
	Beas	Beas	Beds		Beas		Dead Bullock For	mation
						McFarlane Peak Group		
Archaean			Browns Range Metamorphics					
			"Billabong Complex"					

**Table 2.** Comparison of stratigraphic nomenclature (Hendrickx et al, 2000).

The Dead Bullock Formation occurs at the base of the Tanami Group and is dominated by fine-grained sedimentary rocks. The rocks outcrop at Dead Bullock Soak, Lightning Ridge and Officer Hill. At the Granites the rocks have been metamorphosed to amphibolite facies to form andalusite, garnet and hornblende bearing schists. The Dead Bullock formation is host to significant gold mineralisation at the Granites and Dead Bullock Soak.

The Killi-Killi Formation conformably overlies the Dead Bullock Formation and is the most extensive formation in the group. The sequence of turbidites includes micaceous greywacke, quartzwacke, and lithic greywacke, quartz arenite and lithic arenite, interbedded with siltstone, mudstone and occasional thin chert beds. Detrital mica is a characteristic feature. The Killi-Killi is metamorphosed to lower greenschist facies and is interpreted to be up to 4km thick.

The Twigg formation is confined to a narrow package of rocks immediately west of the Tanami Mine corridor. It comprises a sequence of interbedded purple siltstone with thin-bedded chert and minor medium bedded greywacke.

The Pargee Sandstone unconformably overlies the Tanami Group and is exposed on the western side of the Coomarie Dome extending into Western Australia. The Pargee Sandstone comprises thick-bedded quartz arenite, lithic arenite and conglomerate with pebbly sandstone and conglomerate at the base.

The Mount Charles Formation comprises an intercalated package of basalts and turbiditic sediments, which occur on the western side of the Frankenia Dome. The

Mount Charles Formation is host to structurally controlled vein hosted gold mineralisation in the Tanami Mine Corridor. Sediments include sandstone, mudstone, carbonaceous mudstones and intraclast conglomerate. Basalts are predominantly massive units with pillow basalts and basaltic breccias also evident.

The Mt Winnecke Group is also interpreted to lie unconformably over the Tanami Group and is divided into two units - siliciclastic sediments and felsic volcanics.

The Nanny Goat Volcanics are characterised by extrusive volcanic rocks including quartz-feldspar ignimbrite, feldspar ignimbrite, rhyolite lava, basalt and minor siliciclastic sediments.

The Birrindudu group comprises 3 units with Gardiner Sandstone at the base, overlain by Talbot Well Formation and Coomarie Sandstone. The Suplejack Down sandstone is interpreted to belong to this group but is relationship is unclear. The Birrindudu group lie unconformably over the Browns Range Metamorphics, MacFarlane Peak Group, Tanami Group, Pargee Sandstone, Nanny Goat Creek Volcanics and Mount Winnecke Group.

Cenozoic laterite, silcrete, calcrete, and Quaternary debris cover 60 - 70% of the Tanami Desert. The Quaternary sediments are generally unconsolidated, representing the most recent phase of erosion and deposition of sands, gravels and lithic fragments.

### 3.2 Local Geology

EL 7908 is characterised by the presence of significant amounts of 'cover' rock central to the elongate exploration licence. The Muriel Range Sandstone is described as sublithic arenite, quartz arenite, minor siltstone, shale, conglomerate (very thin to medium-bedded), cross-bedded, arkose, breccia. 1vd aeromagnetics show a significant ?dolerite (magnetic) body within the central west portion of the region.

EL 9845 & EL 9833 particularly are dominated by major palaeodrainages of significant size. The outcrop geology map records subcrop/outcrop of a basement lithology (probably Dead Bullock Formation (Siltstone, numerous –dolerite sills: moderate-intensely magnetic, high gravity response) within EL 9845. EL 9833 is covered by calcrete to the south, drainage centrally and ?Killi Killi Beds to the north. Aeromagnetic images show a fractionated granite partially within both these Licences.

EL 8526 has potential Antrim Plateau volcanics to the north of the Licence. The exploration Licence is predominantly Killi Killi Beds underlain by an undifferentiated intrusive (non-magnetic, low gravity response).

EL 8526 & EL 9833 are within 10km of Callie increasing their prospectivity dramatically.

### 4.0 EXPLORATION

### 4.1 EXPLORATION for 17<sup>th</sup> October 2002 to 16<sup>th</sup> October 2003

### 4.1.1 EL7908

No field work was completed during the second year of tenure within EL7908. A basic literature/data review was completed to help in an assessment of the tenement for the 2004 budget and possible partial relinquishment.

### 4.1.2 EL8526

55 soil samples (See Figure 5 for sample locations and results) were collected over EL 8526 on an approximately 500m by 500m grid. Samples were analysed using the Newmont Proprietary technique. High results included a 1.98ppb Au. This licence is located approximately eight kilometres south west of Callie.

Two regional aircore holes were also completed (REC0008 & REC0009). These were 48m and 45m in depth with approximately 35m of cover (dominated by totally weathered clay  $\pm$  gypsum). The holes were interpreted to be in 'granite'. No significant results were recorded. See Figure 2.

### 4.1.3 EL9833

57 soil samples (See Figure 3 for sample locations and results) were collected over EL 9833 on an approximately 500m by 500m grid. Samples were analysed using the Newmont Proprietary technique. High results included a 2.36ppb Au. This licence is located approximately eleven kilometres north north west of Callie.

Two regional aircore holes were also completed (REC0006 & REC0007). These were 72m and 96m in depth with approximately 55m of cover (dominated by totally weathered clay  $\pm$  gypsum). The holes were interpreted to be pelitic in nature and a 'granite'. No significant results were recorded. See Figure 2.

### 4.1.4 EL9845

49 soil samples (See Figure 4 for sample locations and results) were collected over EL 9845 on an approximately 500m by 500m grid. Samples were analysed using the Newmont Proprietary technique. High results included a 2.32ppb Au. This licence is located approximately eighteen kilometres north north west of Callie.

One regional aircore hole was completed (REC0001). This was 69m in depth with approximately 65m of cover (dominated by totally weathered clay  $\pm$  gypsum). The holes were interpreted to be granitic in nature. No significant results were recorded. See Figure 2.

### **5.0 EXPENDITURE FOR PERIOD 17/10/2002 TO 16/10/2003.**

### 5.1 Expenditure for period 17/10/2002 to 16/10/2003 on EL 7908

Table 3 summarises the expenditure for the current licence year on EL7908.

EL 7908	Actual YTD	Admissible Costs
800001 Proj/Explorn labour	7,779.00	7,779.00
839001 Sal & Wages Allocat	799.92	799.92
840000 Employee Cost Allo	199.95	199.95
* Expln Employee Costs	8,778.87	8,778.87
520685 Telephone & Fax	41.63	41.63
839000 Fixed Asset Usage	1,426.58	1,426.58
839003 Regnl Office Alloct	2,225.41	2,225.41
840007 Expln Other Alloc	3.43	3.43
Expl Overheads and Alloca	3,697.05	3,697.05
510000 Accom & Messing	111.87	111.87
512010 Safety Clothing	87.97	87.97
512025 Safety Training	590.66	590.66
520085 Maintenance	28.04	28.04
520900 Travel - Air Charte	358.32	358.32
520920 Travel & Accom Loca	1,978.76	1,978.76
550999 Consum-Direct Purch	512.37	512.37
839004 Field Costs Alloctn	(1.10)	(1.10)
561020 IT Infras Hardware	215.00	215.00
561030 IT Maintenance Soft	120.45	120.45
840002 Trav & Accom Allo	5.25	5.25
840003 Draft & IT Alloc	40.31	40.31
840005 Equip & Veh Alloc	2.70	2.70
* Expln Operating Costs	4,050.60	4,050.60
521001 TLO - Comp Payments	0	
521005 Legal Fees - Deduct	0	
521010 Legal Fees - Non De	65.31	
560040 Tenement Fees	50.00	
542300 Asset Acquisitions	0	
560042 Tenement Rentals	240.00	
840006 Ten/Legal Cost Allo	4.26	
* Expln Tenement Costs	359.57	
513000 Consultants - Gen.	935.21	935.21
* Expln Specialist Services	935.21	935.21
TOTAL	17,821.30	17,461.73
COVENIANT		0000
COVENANT		6000

### 5.2 Expenditure for period 17/10/2002 to 16/10/2003 on EL 8526

Table 4 summarises the expenditure for the current licence year on EL8526.

EL 8526	Actual YTD	Admissible Costs
800001 Proj/Explorn labour	1,025.00	1,025.00
839001 Sal & Wages Allocat	90.68	90.68
840000 Employee Cost Allo	199.95	199.95
* Expln Employee Costs	1,315.63	1,315.63
839000 Fixed Asset Usage	150.15	150.15
839003 Regnl Office Alloct	262.29	262.29
840007 Expln Other Alloc	3.43	3.43
* Expl Overheads and Alloca	415.87	415.87
510000 Accom & Messing	364.37	364.37
520086 Maintenance - Vehcl	35.08	35.08
520920 Travel & Accom Loca	29.09	29.09
550999 Consum-Direct Purch	198.74	198.74
839004 Field Costs Alloctn	(0.96)	(0.96)
561025 IT Maintenance Hard	785.36	785.36
840002 Trav & Accom Allo	5.25	5.25
840003 Draft & IT Alloc	40.31	40.31
840005 Equip & Veh Alloc	2.70	2.70
* Expln Operating Costs	1,459.94	1,459.94
521001 TLO - Comp Payments	0	
521005 Legal Fees - Deduct	0	
521010 Legal Fees - Non De	65.31	
560040 Tenement Fees	50.00	
542300 Asset Acquisitions	0	
560042 Tenement Rentals	100.00	
840006 Ten/Legal Cost Allo	4.26	
Expln Tenement Costs	219.57	
560063 Assays - Surf Sampl	373.32	373.32
560065 Assays - RAB	1,200.25	1,200.25
* Expln Laboratory Costs	1,573.57	1,573.57
550030 Consum Drilling	807.72	807.72
514025 Contract - Drill RA	5,975.85	5,975.85
* Expln Drilling Costs	6,783.57	6,783.57
513000 Consultants - Gen.	1,031.94	1,031.94
* Expln Specialist Services	1,031.94	1,031.94
TOTAL	12,800.09	12,580.52
COVENANT		7000

### 5.3 Expenditure for period 17/10/2002 to 16/10/2003 on EL 9833

Table 5 summarises the expenditure for the current licence year on EL9833.

EL 9833	Actual YTD	Admissible Costs
800001 Proj/Explorn labour	4,150.00	4,150.00
511020 Learning & Develop	375.00	375.00
839001 Sal & Wages Allocat	381.01	381.01
840000 Employee Cost Allo	199.95	199.95
* Expln Employee Costs	5,105.96	5,105.96
839000 Fixed Asset Usage	661.18	661.18
839003 Regnl Office Alloct	1,187.03	1,187.03
840007 Expln Other Alloc	3.43	3.43
* Expl Overheads and Alloca	1,851.64	1,851.64
510000 Accom & Messing	1,217.87	1,217.87
520920 Travel & Accom Loca	434.95	434.95
520925 Travel & Accom Osea	990.80	990.80
550999 Consum-Direct Purch	71.72	71.72
570025 Freight	218.50	218.50
840002 Trav & Accom Allo	5.25	5.25
840003 Draft & IT Alloc	40.31	40.31
840005 Equip & Veh Alloc	2.70	2.70
* Expln Operating Costs	2,982.10	2,982.10
521001 TLO - Comp Payments	0	
521010 Legal Fees - Non De	65.31	
560040 Tenement Fees	50.00	
542300 Asset Acquisitions	0	
560042 Tenement Rentals	60.00	
840006 Ten/Legal Cost Allo	4.26	
* Expln Tenement Costs	179.57	
560063 Assays - Surf Sampl	963.32	963.32
* Expln Laboratory Costs	963.32	963.32
514025 Contract - Drill RA	5,975.85	5,975.85
* Expln Drilling Costs	5,975.85	5,975.85
513000 Consultants - Gen.	1,659.00	1,659.00
* Expln Specialist Services	1,659.00	1,659.00
TOTAL	18,717.44	18,537.87
COVENANT		5000

### 5.4 Expenditure for period 17/10/2002 to 16/10/2003 on EL 9845

Table 6 summarises the expenditure for the current licence year on EL9845.

EL 9845	Actual YTD	Admissible Costs
800001 Proj/Explorn labour	2,447.00	2,447.00
839001 Sal & Wages Allocat	200.45	200.45
840000 Employee Cost Allo	199.95	199.95
* Expln Employee Costs	2,847.40	2,847.40
839000 Fixed Asset Usage	305.51	305.51
839003 Regnl Office Alloct	471.85	471.85
840007 Expln Other Alloc	3.43	3.43
* Expl Overheads and Alloca	780.79	780.79
510000 Accom & Messing	621.50	621.50
512000 First Aid/Safety	75.00	75.00
512010 Safety Clothing	188.10	188.10
520086 Maintenance - Vehcl	169.91	169.91
520900 Travel - Air Charte	577.60	577.60
520920 Travel & Accom Loca	1,726.40	1,726.40
550999 Consum-Direct Purch	782.25	782.25
556095 Spares - Tyres/Tube	44.12	44.12
570025 Freight	206.00	206.00
839004 Field Costs Alloctn	(1.29)	(1.29)
840002 Trav & Accom Allo	5.25	5.25
840003 Draft & IT Alloc	40.31	40.31
840005 Equip & Veh Alloc	2.70	2.70
Expln Operating Costs	4,437.85	4,437.85
521001 TLO - Comp Payments	0	
521010 Legal Fees - Non De	65.31	
560040 Tenement Fees	50.00	
542300 Asset Acquisitions	0	
560042 Tenement Rentals	40.00	
840006 Ten/Legal Cost Allo	4.26	
Expln Tenement Costs	159.57	
560063 Assays - Surf Sampl	820.27	820.27
Expln Laboratory Costs	820.27	820.27
550030 Consum Drilling	403.83	403.83
514025 Contract - Drill RA	5,975.85	5,975.85
Expln Drilling Costs	6,379.68	6,379.68
513000 Consultants - Gen.	2,101.75	2,101.75
Expln Specialist Services	2,101.75	2,101.75
TOTAL	17,527.31	17,367.43
COVENANT		8000
OOVENANI		0000

### 6.0 PROPOSED EXPENDITURE 17<sup>th</sup> October 2003 – 16<sup>th</sup> October 2004

Work may continue on ELs 8526, 9833 and 9845 in the form of follow up drilling to the current soil sampling programmes. There may also be some infill surface sampling - this will be combined with a data review and interpretation of the geology and geophysical data available.

Proposed work programmes on EL7908 for the next year will basically involve the assessment of previous work done in the regions by other companies as well as the acquisition of more detailed geology and regolith through site visits. Specific work may involve a regional scale surface sampling programme over the tenements using a proprietary surface sampling technique developed by Newmont Gold and possible regolith drilling.

Tenement	Proposed Expenditure (\$)
EL7908	14,000
EL8526	15,000
EL9833	5,000
EL9845	10,000
Total	44,000

**Table 7**: Proposed Expenditures 17<sup>th</sup> October 2003 to 16<sup>th</sup> October 2004

### 7.0 ENVIRONMENTAL

Environmental disturbance has been kept to a minimum wherever possible. Mature trees were not disturbed and trimming of vegetation was limited to small bushes and grasses in order to obtain line of sight in griding. All pads for drilling were cleared by hand and Aircore holes were plugged with concrete plugs and backfilled. Surface sampling holes were all backfilled. All rubbish was removed from sites.

### **8.0 REFERENCES**

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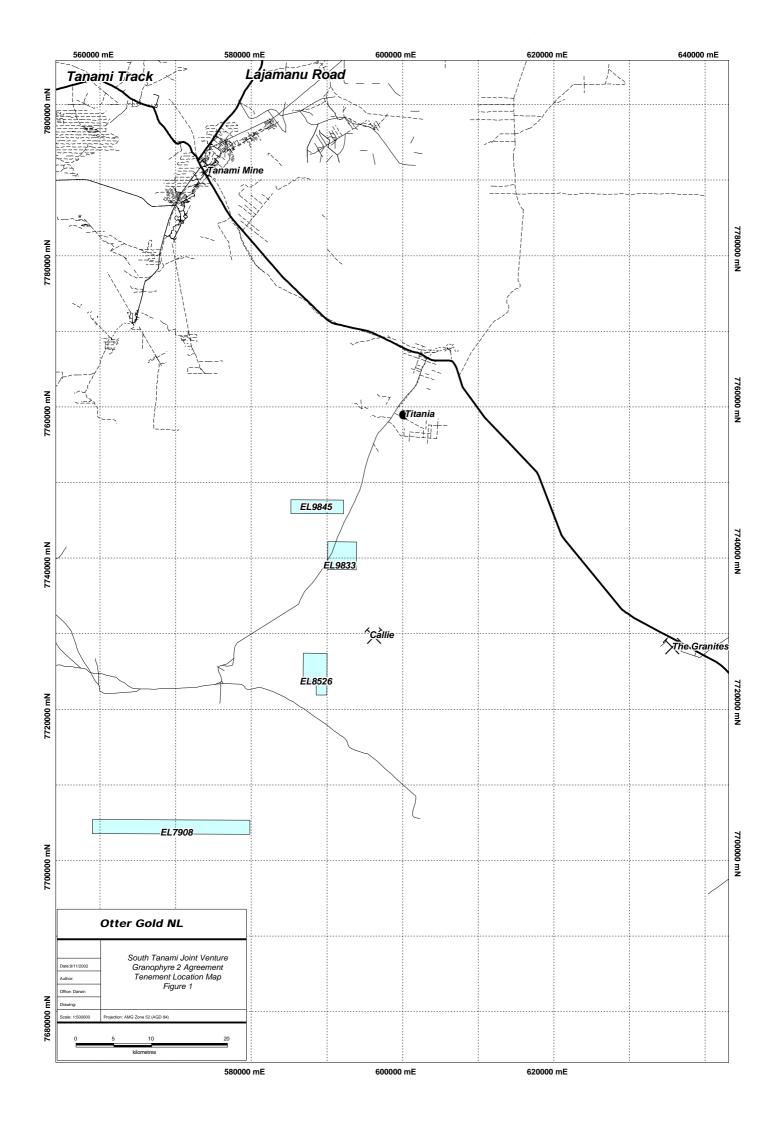
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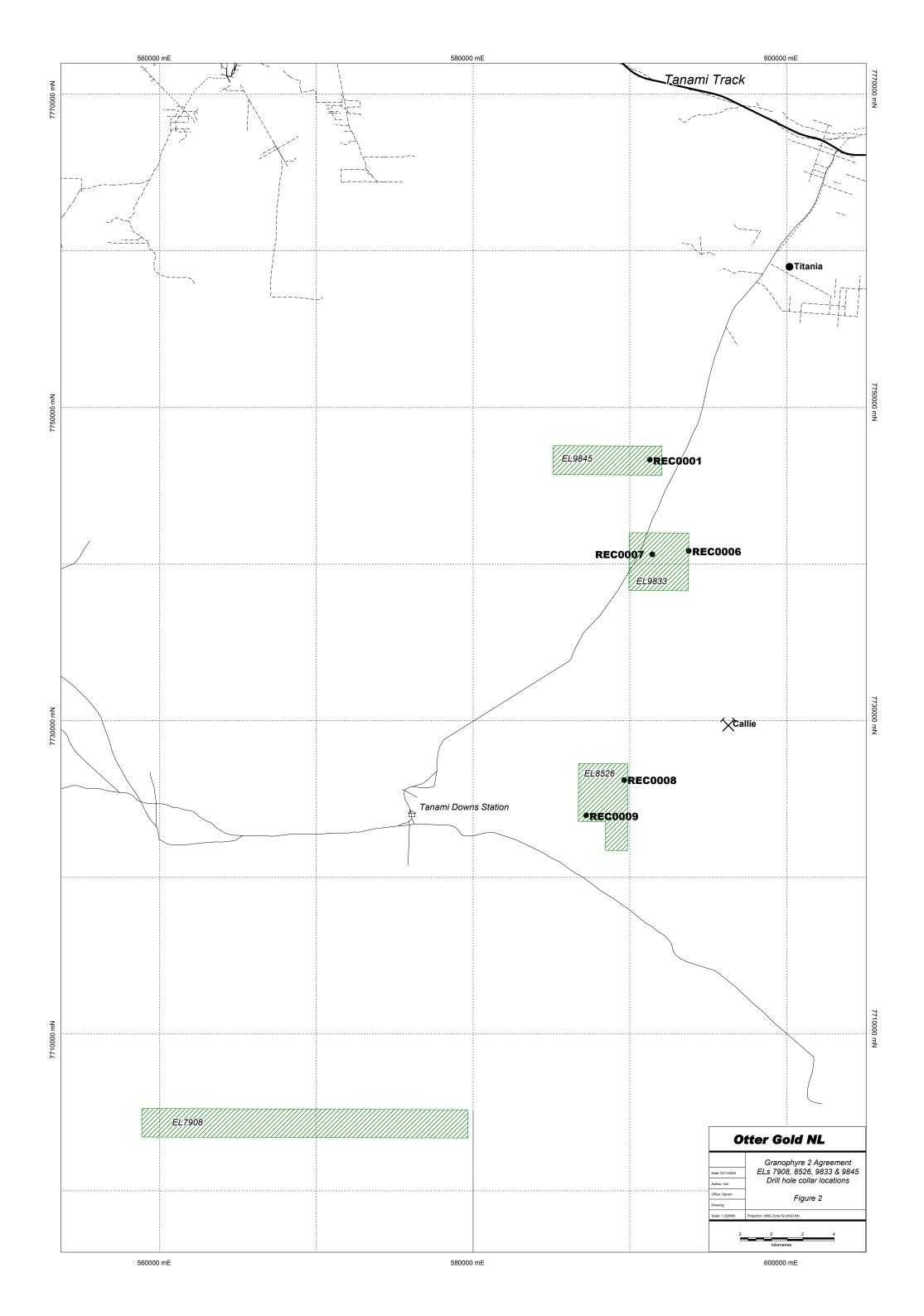
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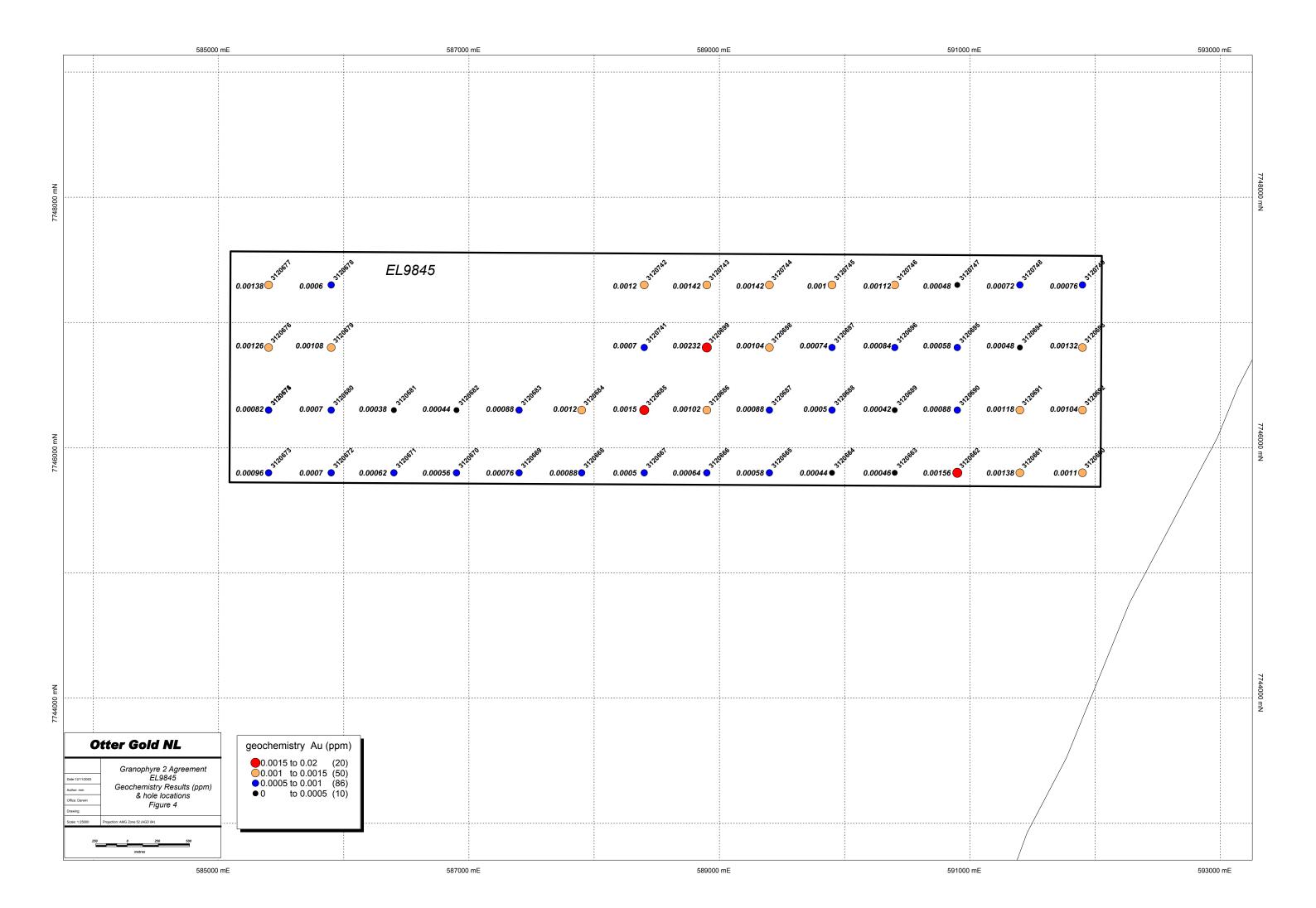
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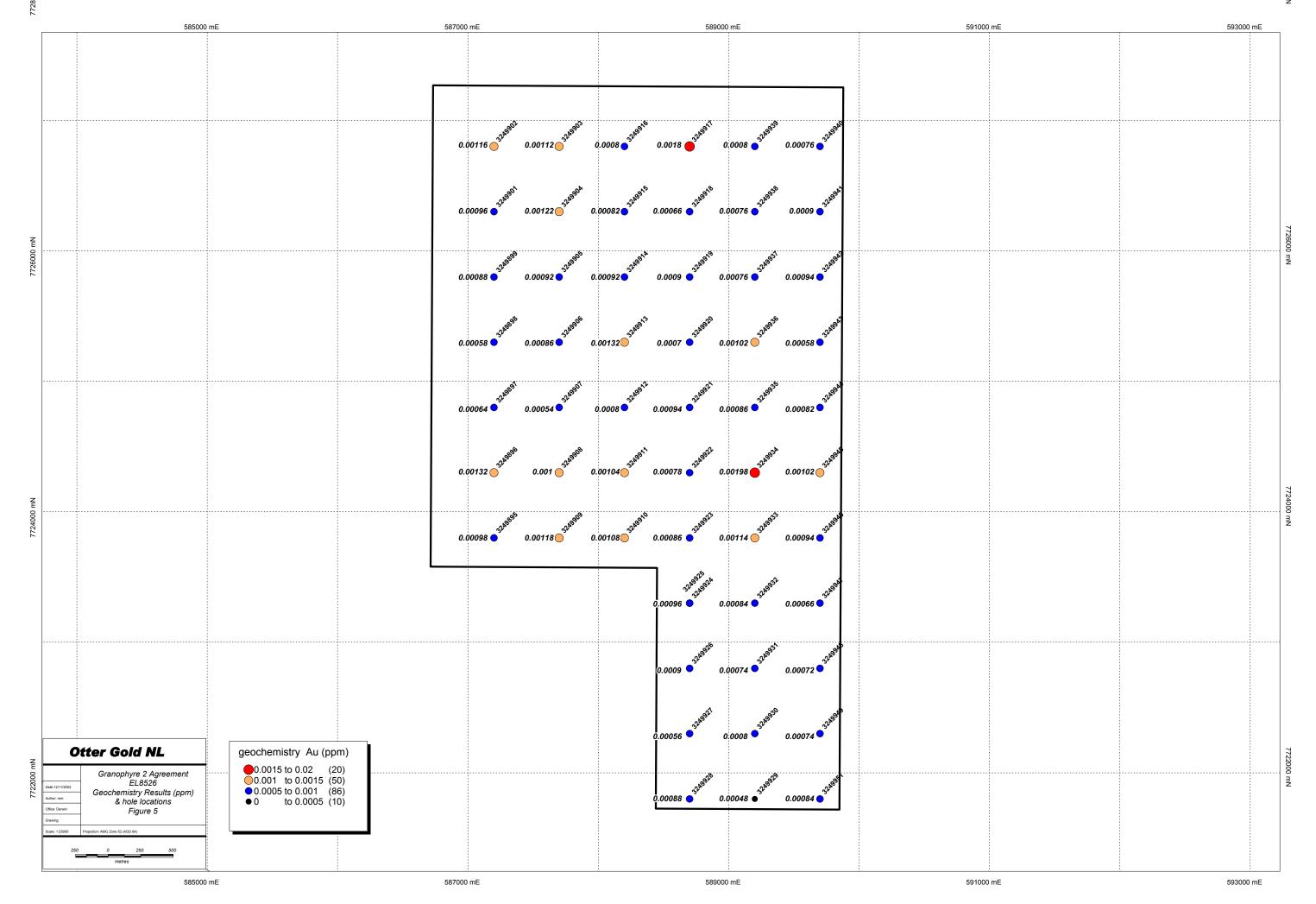
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# **APPENDIX 1 Figures**









## **APPENDIX 2 Sampling Data** See attached Files