



TANAMI
EXPLORATION NL

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FIRST
ANNUAL REPORT
EL 22916
ONGEVA

For Year Ending 9 July 2003

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1. SUMMARY

Exploration programs carried out by the Tanami Exploration NL on EL 22916 for the year ending 9 July 2003 comprised regional mapping, geophysical interpretation and target identification. The mapping programs and accompanying non-ground disturbing geological reconnaissance was carried out prior to the grant of the tenement under the fossicking provisions of the Mining Act.

An aeromagnetic high representing a possible IOCG target was identified from this work. RAB drilling is planned to test the target in Year 2.

2. INTRODUCTION

Exploration on EL 22916 was carried out by Tanami Exploration NL (TENL), a wholly owned subsidiary of Tanami Gold NL (TGNL). TGNL is a publicly listed company and active explorer in the Tanami-Arunta Province.

This report provides details of exploration conducted by TENL on EL 22916 since 2001 as part of its major Harts Range Project in Central Australia. The initial phases of this work comprised regional mapping, geophysical interpretation, assessment of potential target commodities and prospectivity, and limited geological reconnaissance.

From this work the main target on EL 22916 is iron oxide copper gold (IOCG) mineralisation of the Olympic Dam or Prominent Hill –style. Potential for epigenetic shear-hosted gold, Oonagalabi-style base metals and orthomagmatic mafic-ultramafic hosted PGE's is also being assessed.

3. LOCATION AND ACCESS

The tenement is located 100 kilometres NE of Alice Springs (see **Figure 1**). Access to the tenement is via the Stuart and Plenty Highways from Alice Springs then by station tracks (see **Figure 2**).

4. TENEMENT DETAILS

EL 22916 consists of 59 blocks in the Harts Range district of Central Australia. The tenement was granted to Tanami Exploration NL (TENL), a wholly owned subsidiary of Tanami Gold NL (TGNL), with effect from 10 July 2002 for a period of six years.

TABLE 1: Tenement Details EL 22916

Name	Blocks	Km ²	Grant Date	Expiry	Covenant Y/E 2002
Ongeva	59	187	10 July 2002	9 July 2008	\$22,000

At present there is no formal Indigenous Land Use Agreement between TGNL and the Central Land Council (CLC) for EL 22916 and subsequently TGNL have not had access to the tenement to conduct systematic exploration in the first year.

Recently however, under an informal agreement with the CLC, TGNL has been granted access to conduct non-ground disturbing reconnaissance exploration on EL 22916, subject to the terms and conditions of grant and including consultation with the Aboriginal Areas Protection Authority, and under the terms and conditions of the existing Harts Range ILUA. If based upon exploration success TGNL wishes to continue with more extensive exploration programs over EL 22916, TGNL and the CLC will at that time negotiate either an Exploration Deed or if necessary an ILUA.

5. REGIONAL GEOLOGY

The tenement straddles the 1:250,000 Alcoota and Alice Springs geological map sheets, and falls within the northwestern corner of a regional geological interpretation of the district compiled for TGNL by Dr Ding Puquan in April-May 2001 (Ding, 2001). A portion of this interpretation is presented as **Plate 2**.

The tenement area is predominantly underlain by high grade metamorphic rocks of the lower Proterozoic Strangways Metamorphic Complex. Ding (2001) assigns these rocks to the Lower Proterozoic 'The Garden Metamorphics' unit comprising mafic and felsic granulite, minor metasediments and gneiss. In the north the tenement is underlain by the Mt Bleechmore Granulite which comprises felsic gneiss and migmatite, mafic granulite and minor calc-silicate.

The central eastern area of the tenement is underlain by amphibolite dominated rocks variably assigned to the Palaeoproterozoic 'Harts Range Orogenic Belt' (Puquan Ding, unpublished TGNL reports and Ding & James, 1985), and to the Neoproterozoic to Cambrian 'Harts Range Group' (Hand *et al* 1999). Ding sites field relationships as his main evidence for placing the Riddoch Amphibolite temporally with the Strangways Metamorphic Complex, whereas Hand *et al* site age dating of metamorphic zircons formed at 461 ± 6 Ma with preserved cores dated at 734 ± 44 Ma.

6. EXPLORATION PROGRAMS TO 9 JULY 2003

Exploration programs carried out by Tanami Exploration NL on EL 22916 to the year ending 9 July 2003 comprised regional geophysical and geological interpretation.

6.1 2001 Exploration

The tenement area was incorporated into the Company's Alice Springs regional mapping program in March-April 2001 (see **Plate 2**). The program covered an area of 10,000 km² centred on the Florence Creek Shear Zone (south of the tenement) and associated structures. The program comprised Landsat and aeromagnetic interpretation, and helicopter supported geological reconnaissance.

6.2 2002 Exploration

In early 2002 the tenement was included within an Arunta-wide geophysical interpretation conducted by TGNL consultant geologists Dr Jayson Myers and Dr Nathan Jombwe. Coincident magnetic and gravity highs were identified as possible iron oxide copper gold (IOCG) targets north of EL 22916 in the Mt Bleechmore area. Sampling over this region by previous explorers identified significant widespread base metal anomalism in stream sediments draining the Mt Bleechmore area. The coincident magnetic-gravity highs lie beneath alluvial cover of the extensive Alcoota Plain and require RAB drilling as a first pass test.

An additional magnetic high was identified on EL 22916 during the course of this work (**Figure 3**). The target also lies under alluvial cover and requires RAB drilling. This work is planned for the second year of grant following clearances due to be conducted by the CLC in September 2003.

7. EXPLORATION EXPENDITURE YEAR ENDING 9 JULY 2003

Exploration expenditure including an allocation for the 2001 regional mapping and 2002 geophysical targeting program is given below in Table 2.

TABLE 2: Exploration Expenditure Year Ending 9 July 2003

Salaries/Wages - Field and Office	\$5,415
Office, Computing, Drafting and Database	836
Field and Camp, Supplies and Equipment	818
Travel and Accommodation	866
Vehicles, Fuel and Maintenance	469
Helicopter and Fuel	1,184
Analysis	42
Land Maintenance and Legal	503
Remote Sensing and Geophysical	439
Administration	1,586
TOTAL	\$12,156
<i>First Year Commitment</i>	<i>\$22,000</i>

8. PROPOSED EXPLORATION PROGRAM YEAR 2

Planned exploration for the second year of grant consists of a drill program to test the magnetic target (see **Figure 3**). The drilling program will comprise approximately 10 vertical RAB/Aircore holes to blade refusal for a total of 600m.

TABLE 3: Proposed Exploration Program Year 2

Salaries/Wages - Field and Office	\$2,500
Office, Computing, Drafting and Database	1,000
Field and Camp, Supplies and Equipment	1,500
Travel and Accommodation	2,500
Vehicles, Fuel and Maintenance	1,000
Drilling	10,000
Analysis	4,000
Land Maintenance and Legal	1,000
Remote Sensing and Geophysical	500
Administration	3,500
TOTAL	\$27,500

9 REFERENCES

Ding, P. & James, P.R., 1985 Structural evolution of the Harts Range area and its implications for the development of the Arunta Block, central Australia. *Precambrian Research*, 27, 251-276.

Ding, Puquan 2001 Pre-Cenozoic solid geology map of the Strangways Range to Harts Range area, Explanatory Note. *Unpublished TGNL in-house report*.

Hand, M., Mawby, J., Kinny, P., & Foden, J. 1999a U-Pb ages from the Harts Range, central Australia: evidence for early Ordovician extension and constraints on Carboniferous metamorphism. *Journal of the Geological Society, London*, 156, 715-730.

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