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EL 8589
FINAL REPORT

Ranford Hill 1:100,000 Map Sheet

Title Holder: - Territory Goldfields N.L.

OPEN FILE

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NTDME
Northern Gold N.L., Adelaide River
Northern Gold N.L., Perth Office
Barnjarn Mining Company Pty. Ltd.
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Figure 1 Tenement Location Plan
1.0 SUMMARY

EL 8589 is located approximately 250 kilometres south-east of Darwin on the Ranford 1:100,000 scale map sheet.

The licence was granted to Dominion Gold Operations Pty. Ltd. in January 1995 and was subsequently acquired by Territory Goldfields N.L. and the Barnjarn Mining Company, which holds a 10% interest through a Joint.

Substitute Exploration Licence 9212 was granted over the area on the 9th of February 1996 for a period of four years.

Expenditure for the final year to 9/2/96 was $1000.
2.0 LOCATION AND TENURE

EL 8589 is located approximately 50 kilometres east-south-east of Pine Creek and 250 kilometres south-east of Darwin. Access is via the Stuart Highway or Kakadu Highway and then via maintained pastoral tracks (figure 1).

The licence covers two graticular blocks, 6 square kilometres in size, lying between latitudes 13°58' south and 13°59' south and longitudes 132°15' east and 132°17' east. EL 8589 is situated on the Ranford Hill 1:100,000 and Ranford 1:50,000 scale map sheets.

The licence was granted to Dominion Gold Operations Pty. Ltd. on the 31st of January 1995, and was subsequently acquired by Territory Goldfields N.L. The Barnjarn Mining Company, holds a 10% interest through a Joint Venture.

SEL9212 was granted over the area on the 9th of February 1996 for a period of four years.

3.0 GEOLOGY

3.1 Regional Geology

EL 8589 is situated within the Pine Creek Geosyncline, a tightly to isoclinally folded sequence of mainly pelitic and psammatic Lower Proterozoic sediments with interlayered tuff units. All the lithologies in the area have been metamorphosed to low, and in places, medium grade, metamorphic assemblages. For the purposes of this report, the prefix meta- is implied, but omitted from the rock names and descriptions.

The sequence has been intruded by pre-orogenic dolerite sills of the Zamu Dolerite and a large number of late syn-orogenic to post-orogenic Proterozoic granitoids. Largely undeformed Middle and Late Proterozoic, Palaeozoic and Mesozoic strata, as well as Cainozoic sediments and laterites, overly the Pine Creek Geosyncline.

3.2 Local Geology

The area is dominated by Burrell Creek Formation sediments and the Wolfram Hill Granite.

The Burrell Creek Formation consists of greywacke and siltstone/shale. Most of the rocks within the unit are well cleaved and tightly folded about north to northwest sub-horizontal fold axes.

Folding is complex and appears to trend north-east through the licence area.
4.0 EXPLORATION COMPLETED

No exploration was carried out in the tenement due to the acquisition of the licence and commitments in other areas.

Numerous tin and tungsten workings are present within and around the tenement and there is a possibility of mineralisation being present within the tenement (Fawcett, 1996).

5.0 EXPENDITURE

The following is a breakdown of costs incurred in the final year of tenure to the 9th of February 1996 for EL 8589:-

Report Compilation
Data Review
Tenement Management

TOTAL $1000

6.0 REFERENCES