Talmina Trading Pty. Ltd.

EL 3543 - Mt. Shoobridge
Annual Report for the Year

Licensee: Talmina Trading Pty. Ltd.
Licence: EL 3543
Location: Pine Creek 1:250,000 SD52-8
Tipperary 1:100,000 5170
Period: April 1984 - April 1985
Author: B.D. Richardson.
Table of Contents.

1. Introduction.

Figures.

1. Exploration Licences and Mining Tenements
   Howley - Bridge Creek Areas.

2. EL 4196 - Mt. Shoobridge Solid Geology.
1. Introduction.

Exploration Licence 3543 is located 125 kilometers south-east of Darwin, on the Tipperary 1:100,000 sheet. The lease was first granted to Talmina Trading Pty. Ltd. on the 19th April 1982 and after reduction, now comprises one block. (Fig. 1)

The licence occurs in the Mt. Shoobridge area and contains rocks of the Lower Proterozoic Burrell Creek Formation. These rocks are unconformably overlain by ferruginous sandstones of the Cretaceous Petrel Formation that forms a plateau in the licence area. The Middle Proterozoic Shoobridge Granite occurs to the north of EL 3543 and much of the mineralization in the area is genetically related to this intrusion (Fig. 2).

In the Mt. Shoobridge area, a series of small tin mines and lead and copper prospects occur in pegmatites, quartz veins and shear zones in the schists of the Burrell Creek Formation. The most productive mine of the area was the Old Company Mine which has a total recorded production of 145 tonnes of tin concentrate. The major workings were on a steeply dipping quartz - muscovite reef 1 to 3 m wide, which contained patchy cassiterite shoots over a length of 100 m.

Copper, lead and silver occurrences are known from numerous prospects in this general area but few of them were of economic importance.

OPEN FILE
LEGEND

Cret Kp  Petrel Fm
Pgb  Burnside Granite
Pdz  Zemu Dolerite
PtB  Burrell Creek Fm
PSo  Mt. Bonnie Fm
Psg  Gerowie Tuff
Psk  Koolpin Fm
Ppw  Wildman Siltstone

SYMBOLS

Old workings
Anticline
Syncline
Overtuned anticline

NORTHERN GOLD N.L.
EXPLORATION LICENCES AND MINING TENEMENTS
HOWLEY — BRIDGE CREEK AREAS

Fig.1
During the year several geological traverses were made across the exposed units of the Burrell Creek Formation within EL 3543. A number of stream sediment samples were taken and panned but no significant mineralized pegmatites were located.

The exploration programme over EL 3543 comprised a small part on Talmina's tin and gold exploration programme in the Mt. Shoobridge area. The results so far indicate that EL 3543 is unprospective for tin mineralization and very limited work will be carried out on this area in the 1985/86 period. The estimated expenditure for the next season is $1,000. A Statement of Expenditure for the 1984/85 season is given below:

EL 3543 - Statement of Expenditure April 1984 - April 1985

<table>
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<th>Item</th>
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<tbody>
<tr>
<td>Wages and Salaries</td>
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<tr>
<td>Consultant Fees</td>
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<td>Logistic Support</td>
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<td>Vehicle Expenses</td>
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<td>Administration Costs</td>
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<td>Airfares and Accommodation</td>
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$2,500
Summary.

Exploration Licence 3543 is located 125 kilometers south-east of Darwin in the Mt. Shoobridge area. The area was granted to Talmina Trading Pty. Ltd. in 1982 and now comprises one block.

The licence covers rocks of the Burrell Creek Formation which are unconformably overlain by sandstone of the Cretaceous Petrel Formation. In the Mt. Shoobridge area a number of tin, lead and copper prospects occur in the pegmatites, quartz veins and shear zones in the schists of the Burrell Creek Formation.

Exploration in the 1984/85 period involved limited traversing and sampling as part of the on-going tin and gold programme in the Shoobridge area. No significant results were returned and very limited work is programmed for the following year.