TALMINA TRADING PTY. LTD.

EXPLORATION LICENCE 3527 (Wangi) in

THE NORTHERN TERRITORY OF AUSTRALIA
ANNUAL REPORT FOR THE YEAR ENDED
APRIL 1983

OPEN FILE

Licensee - Talmina Trading Pty. Ltd.
Licence - EL 3527
Location - Pine Creek 1:250,000 SD52-8
Reynolds River 1:100,000
Period - April '82 - April '83
Date Submitted 3rd August, 1983
Author - B.D. Richardson - Geologist
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SUMMARY

Exploration Licence 3527 is located 90 kms SSW of Darwin and is one of three controlled by Talmina Trading Pty. Ltd. in the Wangi Station area.

The lease covers part of the Mt Tolmer plateau and escarpment area. At the base of the escarpment the schists of the Burrell Creek Formation outcrop, unconformably overlain by sandstone of the Tolmer Group. Granitic rocks of the Litchfield Complex occur to the west and tin-tantalite bearing pegmatites emanating from this complex have introduced mineralisation into the Burrell Creek Formation.

Exploration is at a very early stage but further work is planned to test the Burrell Creek Formation for tin-tantalite mineralisation associated with pegmatites.
1. INTRODUCTION

Exploration Licence 3527 is located 90 kms SSW of Darwin on the Reynolds River 1:100,000 topographic map (Fig. 1). The lease covers an area of some 39 km² and was granted to Talmina Trading Pty. Ltd. on the 19th April 1982.

The majority of the lease area covers the Mt Tolmer plateau and its irregular escarpment, which rises over 100m above the nearby floodplain of the Reynolds River.

Access to the area is via the Wangi Station roads but vehicular movement along these tracks is possible only towards the end of the dry season.

Talmina Trading Pty. Ltd. control three adjoining exploration licences within the Wangi area and the 1982 exploration programme covered all three leases but the majority of work was carried on the northern leases, EL2807 and 3527. Three prospectors worked in the area for approximately 3 months.
2. GEOLOGY

The EL occurs on the eastern margin of the Litchfield Block (Fig. 2). The SW corner covers the outcropping schists and greywackes of the early Proterozoic Burrell Creek Formation. These are overlain unconformably by the coarse sandstones and quartzites of the Tolmer Group. To the west, the granitoids of the middle Proterozoic Litchfield Complex occur, covered by a sequence of Cambrian sediments. Tin and tantalite pegmatites, emanating from the Complex, intrude the schists of the Burrell Creek Formation. The pegmatites often follow shear zones, faults and fold axes and are found paralleling the strike of the country rock. Near the Western boundary, the old Mt Tolmer tin mine occurs and here, most of the production came from greisens or altered pegmatites dykes.

EL 3527 occurs within what Walpole termed the West Arm/Mt Finniss/Fletcher Gully area. This area comprises a belt of country, nearly 200 kms long and up to 16 kms wide, and contains a large number of tin and tantalite bearing greisans and pegmatites.

3. EXPLORATION TARGET

The target for exploration within the lease area is tin - tantalite bearing pegmatites similar to the nearby dykes at the Mt Tolmer mine.
LEGEND

Eo - Undiff. Cambrian sediments
Ptu-Tolmer Group
Apl Litchfield Complex
Pfb Burrell Creek Fm

SYMBOLS
- Geological boundary
- Unconformity
- Boundary under cambrian fault
- Drainage track
- Sampling traverse

SCALE
1:100,000

EL 3527

TALMINA TRADING
EL 3527
EXPLORATION ACTIVITY
drawn/compiled BDR July '83

Fig 2
4. WORK DONE AND RESULTS

The exploration programme over the licence area involved the systematic sampling of rocks around the edge of the somewhat irregular escarpment. Samples were taken using an electric hammerdrill capable of drilling up to 45cm into solid rock. Each sample was mechanically dollied and the pulp, panned. The concentrate was inspected under a x 30 hand lens and percentage tin-tantalite visually estimated. The field results are encouraging at this early stage and several pegmatites were found.

5. CONCLUSIONS AND RECOMMENDATIONS

The preliminary work has located some tin-tantalite bearing pegmatites. Further work is required to better define the areas of potential and then detailed follow up work is required on the pegmatites and associated alluvial/eluvial cover.
APPENDIX 1

EXPENDITURE FOR 1982 - E.L. 3527

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