THIRD ANNUAL REPORT
MINERAL CLAIMS C1002 + C1003
MARCH 7, 1991 TO MARCH 6, 1992

Ref:
1:250,000
NATMAP SE 53-14
Tennant Creek

1:100,000
5759
DM & E 52/2
Flynn

MALCOLM WARD
May, 1992
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PLANS

MCC Location Plan 
1:100,000 
7005/82 + 83
1. **INTRODUCTION**
The Telegraph Rd and Last Princess Mineral Claims (MCC 1002 - 1003) on the Tennant Creek (SE 53-14) 1:250,000 sheet as granted to Western Mining Corporation Limited (80%) and Giant’s Reef Mining Pty. Ltd. (20%) on March 6, 1989 to cover areas of magnetic activity coincident with an area of prospective outcrops in E.L. 5497 and 5494 respectively. The area was considered favourable as it lies within the prospective Carraman formation of the Lower Proterozoic Warramunga Group of sediments.

Under the terms of a joint venture initiated on August 1, 1988 between WMC and GRM, WMC will manage and operate future exploration in the Tennant Creek area, and fieldwork commenced at the end of August, 1988.

2. **REGIONAL GEOLOGY**
Mineral Claim MCC 1002 - 1003 area is underlain by the Lower Proterozoic Warramunga Group (see Table 1), part of the Tennant Creek Inlier of exposed Palaeozoic rocks. The area is also within the Carraman Formation which hosts most orebodies in the field.

The Warramunga Group, which lies unconformably on Archean age high grade (amphibolite facies) metamorphic basement is a thick succession of variably iron-bearing turbiditic sediments and volcanics. This sequence has been metamorphosed to greenschist facies, folded and cleaved between two episodes of granitic intrusion at 1807 ± 20 Ma to 1846 ± 8 Ma and 1650 - 60 Ma. It is believed that formation of the massive replacement magnetite/haematite bodies and their later mineralisation occurred during and soon after folding.

The sediments are overlain by the laterally equivalent Carpentarian Tomkinson Creek Beds in the north, and the Hatches Creek Group in the south which re in turn succeeded by Cambrian lithologies.

3. **EXPLORATION ACTIVITY AND EXPENDITURE**
Following the lack of encouragement from the work reported in the Second Annual Report (TEM, IP, drilling, downhole geophysics), and heavy commitments elsewhere in the Joint Venture area, no field work has been undertaken on MCCs 1002 and 1003 in the past year. No direct expenditure has been recorded against the Claims.
<table>
<thead>
<tr>
<th>Period</th>
<th>Formation/Unit</th>
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<tbody>
<tr>
<td><strong>CAMBRIAN</strong></td>
<td>Gum Ridge Formation</td>
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<tr>
<td></td>
<td>Helen Springs Volcanics</td>
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<td><strong>CARPENTARIAN</strong></td>
<td>Tomkinson Creek Beds</td>
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<tr>
<td><strong>LOWER PROTEROZOIC</strong></td>
<td>Warramunga Group</td>
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<tr>
<td></td>
<td>Carraman Formation</td>
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<tr>
<td></td>
<td>Black Eye Member</td>
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<td></td>
<td>Bernborough Formation</td>
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<td>Whippet Sandstone</td>
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<tr>
<td><strong>ARCHEAN</strong></td>
<td>Schist to Gneiss after shale, quartzite, greywacke BIF, tuffs, and volcanics</td>
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</tbody>
</table>

(After Williams, in prep.)