WESTERN MINING CORPORATION LIMITED
EXPLORATION DIVISION

FIRST ANNUAL REPORT
EXPLORATION LICENCE 7078
"RISING STAR SOUTH"
NOVEMBER 9, 1990 TO NOVEMBER 8, 1991

OPEN FILE

CR92/146

REF:
1:250 000 SE 53-14 TENNANT CREEK
1:100 000 5759 FLYNN

M.A. WARD
NOVEMBER, 1991
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Figure 1 Location Plan EL 7078
1. **TENURE**

EL 7078 (Rising Star South) (1 block - Figure 1) was granted to Western Mining Corporation (WMC) 80% and Giants Reef Mining (GRM) 20% for a period of 3 years on 9th November, 1990. It forms part of the Tennant Creek Joint Venture between WMC and GRM.

EL 7078 covers exactly the area of former EL 5739, also a JV tenement, which expired on March 16th, 1990. (see Evans, 1990)

WMC act as managers and operators of the Tennant Creek Joint Venture.

2. **REGIONAL GEOLOGY**

Exploration Licence 7078 is underlain by the Lower Proterozoic Warramunga Group, part of the Tennant Creek Inlier of exposed Palaeozoic rocks. The area is at the interpreted contact between the Bernboroguh Formation and the Carramna Formation which hosts most orbodies in the field.

The Warramunga Group, which lies unconformably on Archaen 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 1870 ± 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.

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

3. **WORK COMPLETED**

The area of EL 7078 has previously been explored by the TCJV as EL 5739. No field work has been undertaken on EL 7078 during the past year as the J.V. has been focussing all its resources on the highly prospective EL 5432, several kilometers to the north. It is expected that techniques and strategies refined on EL 5432 will be efficiently applied to EL 7078 in 1992 as part of a renewed regional exploration effort.

4. **EXPENDITURE**

Expenditure attributable to EL 7078 for the period November 1st, 1990 to October 31st, 1991 is as follows:

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology</td>
<td>$9,644</td>
</tr>
<tr>
<td>Leasing</td>
<td>$298</td>
</tr>
<tr>
<td>Administration</td>
<td>$1,313</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$11,255</strong></td>
</tr>
</tbody>
</table>

This includes a proportion of costs incurred under a 'general' Project cost-code.
5. **PROGRAMME AND EXPENDITURE FOR YEAR 2**

Field work in the second year of tenure on EL 7078 is expected to draw on the conclusions arising from a final interpretation of results on EL 5432. At this stage, we expect to undertake the following:

a) Mapping for favourable horizons using ground magnetics.

b) Detailed ground magnetics over appropriate areas.

c) Detailed gravity surveys over areas of anomalous ground magnetics.

d) Percussion drilling of any prospective magnetic and gravity anomalies.

This programme should attract expenditure of approximately $10,000.

6. **REFERENCE**

| TABLE 1 |
| REGIONAL STRATIGRAPHY |

| CAMBRIAN | Gum Ridge Formation |
| Helen Springs Volcanics |
| --- | --- |
| CARPENTARIAN | Tomkinson Creek Beds |
| LOWER PROTEROZOIC | Warramunga Group |
| Carraman Formation | Black Eye Member |
| Bernborough Formation | Whippet Sandstone |
| ARCHEAN | Schist to Gneiss after shale, quartzite, greywacke BIF, tuffs, and volcanics |

(After Williams, in prep.)
AREA OF THIS REPORT.