**Exploration Rationale**
EL 24438 ‘Stokes Yard’ is part of Northern Mining Limited’s Central Australian projects. The tenement contains the Stokes Yard Zinc-Copper-Lead prospect, which is hosted by the 1690-1610 Ma Madderns Yard Complex of the Warumpi Province. In the second year of tenure, an 80 % interest in EL 24438 was purchased by Northern Mining Limited, with Imperial Granite and Mining Pty Ltd retaining 20 %. Geological mapping, rock-chip sampling and a detailed ground magnetic survey were also completed during the second year of tenure. In the fifth year of tenure, EL 24438 was covered by an airborne geophysical survey to assist with understanding the regional structural controls of mineralisation and aiding exploration. A reverse-circulation/diamond drilling programme was planned for the sixth year, but unfortunately, extreme wet conditions in 2010/11 led to the cancellation of Northern Mining’s scheduled field work in Central Australia. In the seventh year of tenure, no field work was completed due to extensive bush fires forcing further cancellation of field work. Nevertheless, EL 24438 was reviewed with regards the ASTER imagery released by the Northern Territory Geological Survey and CSIRO in May 2012. Northern Mining still rates the prospectivity of EL 24438 as very high, however, due to lack of funds and no resident geologist, no work was carried out in Year 8 on the tenement.

**Tenure**
EL 24438 was granted to Imperial Granite and Minerals Pty Ltd on 5 September 2005 and comprised 20 graticular sub-blocks. On the 27 October 2006, Northern Mining Limited acquired an 80 % interest in EL 24438 with Imperial Granite and Minerals Pty Ltd retaining 20 %. At the end of the third year of tenure, EL 24438 was reduced to 10 graticular sub-blocks and these were retained at the end of the fourth year. A further request to waive reductions at the end of the fifth year was declined and 5 blocks were dropped. The remaining 5 blocks were approved for a 2 year renewal at the end of the sixth year. Northern Mining Limited is the manager of EL 24438.

**Table 1**

<table>
<thead>
<tr>
<th>Tenement</th>
<th>Ten no.</th>
<th>Holder</th>
<th>Date Granted</th>
<th>Blocks Granted</th>
<th>Date Surrendered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stokes Yard</td>
<td>24438</td>
<td>Imperial Granite &amp; Minerals</td>
<td>5 Sept 2005</td>
<td>20</td>
<td>04 Sept 2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pty Ltd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Northern Mining Limited</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Any Work completed
Northern Mining Limited Work

Year 2
In the second year of tenure, EL 24438 was purchased by Northern Mining Limited from Imperial Granite and Minerals Pty Ltd, who retained a 20% interest. A data review was immediately undertaken with a brief site visit to determine the local logistics.

A further trip was undertaken to verify the previous results and the prospectivity of the area. As such, 8 rockchip samples were collected from the mineralised pits and confirmed the previous work with samples returning up to 27.5% Zn. At the same time, basic field observations revealed that part of the mineralisation was intensely magnetic, so a ground magnetic survey was planned with the hope of identifying drill targets.

The ground magnetic survey was undertaken using Geophysical Resources & Services Pty Ltd as the contractor, Glen Helen Resort as a camp and a helicopter to access the field area. The survey covered an area of 1000 x 500 m with 25 m-spaced east-west traverses. The magnetic data were very high quality, but failed to identify extensions of the mineralisation. Indeed, the known mineralisation did not produce a significant magnetic response. It is interpreted that the intense magnetism around the mineralisation is too narrow to affect a general response.

In conjunction with the magnetic survey, detailed geological mapping and sampling were undertaken to better interpret the magnetic survey and unravel the structural complexities around the known mineralisation. Seventeen rockchip samples were collected and returned anomalous results some distance from the diggings.

Year 3 & 4
Further geophysical surveys were proposed for the third year of tenure with the aim of defining some drill targets. None of this work was completed during the 3rd or 4th year of tenure due to the difficulty of obtaining geological staff and contractors during the boom and then the uncertainty of corporate financing during the global recession.

Year 5
In the fifth year of tenure the entire tenement was covered by an airborne geophysical survey. The airborne survey was completed by UTS Aeroquest and included magnetics, radiometrics and digital elevation. A summary of the general airborne survey and the logistics report are presented in Table 2.

<table>
<thead>
<tr>
<th>Line Spacing</th>
<th>Line Direction</th>
<th>Tie Line Spacing</th>
<th>Tie Line Direction</th>
<th>Sensor Height</th>
<th>Total Line km</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 m</td>
<td>000-180</td>
<td>1000 m</td>
<td>090-270</td>
<td>50 m</td>
<td>390</td>
</tr>
</tbody>
</table>

Table 2: General statistics of UTS Aeroquest airborne geophysical survey

Year 6
In the sixth year of tenure, extreme wet weather led to the cancellation of scheduled field work and so no effective exploration was completed. A reconnaissance trip was undertaken in August 2011 with Northern Mining’s new Chief Executive Officer, Greg Wilson. Access to Stokes Yard was successful though many of the existing tracks had been severely washed away.
Year 7

In the seventh year of tenure, scheduled field work to identify drill targets and start arranging logistics for drilling was cancelled due to widespread bush fires. Unfortunately, it was not possible to reschedule this work during the year. Therefore, no field work was completed.

Years 8 (proposal)

In year 8, it was proposed to complete an RC/DD drilling programme at the Stokes Yard prospect. It was unclear whether some ground geophysics should precede the drilling. Heritage surveys and vehicle access need to be completed prior to further work.

Unfortunately, due to lack of funds and no resident geologist, no work was carried out on the tenement.

Expenditure 2012 – 2013

<table>
<thead>
<tr>
<th>Activity</th>
<th>Expenditure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary/wages (report preparation, data review, geological)</td>
<td>$1,309</td>
</tr>
<tr>
<td>Department Fees</td>
<td>$105</td>
</tr>
<tr>
<td>Administration 15%</td>
<td>$196</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,505</strong></td>
</tr>
</tbody>
</table>
Figure 1: Location of EL 24438

Background: Regional Total Magnetic Intensity

Northern Mining Limited

03/10/2007
Scale: 1:730000
Figure 2: Location of ground magnetic survey and geological mapping/sampling

Boundary: LandSat 7 (3-2-1)

30/07/2007

1:50000

Northern Mining Limited
Northern Mining Limited

EL24438 and EL24948
Total magnetic intensity; grey scale - NMI survey; colour - regional data

UTM 53 1:170000 Drafted by RAGS Sept 2012

Stokes Yard Cu-Pb-Zn-Ag Prospect

Warumpi Province (highly variable-noisy texture)

Amadeus Basin (linear texture)