<table>
<thead>
<tr>
<th><strong>Titleholder</strong></th>
<th>Northern Mining Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operator (if different from above)</strong></td>
<td>as above</td>
</tr>
<tr>
<td><strong>Titles/tenements</strong></td>
<td>EL 24948</td>
</tr>
<tr>
<td><strong>Tenement Manager</strong></td>
<td>Austwide Mining Title Management Pty Ltd</td>
</tr>
<tr>
<td><strong>Mine/Project Name</strong></td>
<td>Crawford Creek</td>
</tr>
<tr>
<td><strong>Report title including type of report and reporting period including date</strong></td>
<td>Annual report for Crawford Creek EL 24948 for the period 03/07/2011 to 02/07/2012</td>
</tr>
<tr>
<td><strong>Personal author(s)</strong></td>
<td>Dr Michael Green Remote Area GeoScience</td>
</tr>
<tr>
<td><strong>Corporate author(s)</strong></td>
<td>Northern Mining Limited</td>
</tr>
<tr>
<td><strong>Target commodities</strong></td>
<td>uranium, copper, cobalt, lead, zinc, silver, REE</td>
</tr>
<tr>
<td><strong>Date of report</strong></td>
<td>5 September 2012</td>
</tr>
<tr>
<td><strong>Datum/zone</strong></td>
<td>GDA94/Zone 53</td>
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<td><strong>250 000 K mapsheet(s)</strong></td>
<td>Hermannsburg (SF53-13)</td>
</tr>
<tr>
<td><strong>100 000 K mapsheet(s)</strong></td>
<td>Glen Helen (5351)</td>
</tr>
<tr>
<td><strong>Contact details</strong></td>
<td>Dr Michael Green <a href="mailto:remote.geo@bigpond.com">remote.geo@bigpond.com</a></td>
</tr>
</tbody>
</table>

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1.0 Executive Summary

EL 24948 ‘Crawford Creek’ is part of Northern Mining Limited’s Central Australian project. The tenement originally covered two discrete geological domains: the ca. 1690-1610 Ma Warumpi Province and the Neoproterozoic to Paleozoic Amadeus Basin. The Warumpi Province is considered highly prospective for Zn-Cu-Pb-Ag (Stokes Yard-type) and Cu-Zn-(Au) vein (Mt Larrie-type) mineralisation, whereas the Amadeus Basin is highly prospective for sandstone-hosted uranium. Recent work immediately east of EL 24948 has also highlighted that some granite bodies (Teapot Granite) are prospective for U and rare-earth-elements (REE). Geophysical evidence from surveys flown by Northern Mining in 2010 suggests that these granite bodies extend on to EL 24948. After successive years of relinquishing tenure, EL 24948 now comprises only 16 sub-blocks over the Warumpi Province. Unfortunately, no field work was completed on EL 24948 in the last year.

2.0 Introduction

EL 24948 ‘Crawford Creek’ is centered about 160 km west of Alice Springs. Access is via gravel roads from the now sealed Meerenie Loop tourist road. The Haasts Bluff road and various station tracks provide reasonable access to most of the tenement. The Darwin to Amadeus Basin gas pipeline crosses the tenement from south to north.

3.0 Tenure

EL 24948 was granted to Imperial Granite and Minerals Pty Ltd (100 %) on 3 July 2006. Formal transfer of the tenement to Northern Mining Limited was completed during the first year of tenure. The original granted tenement comprised 315 sub-blocks within NT Portion 719, which is part of the Glen Helen perpetual pastoral lease 1128. At the end of the 3rd, 4th, 5th and 6th years of tenure 161, 87, 34 and 17 sub-blocks were relinquished, respectively. Only 16 sub-blocks remain for the tenement (Figure 1).

<table>
<thead>
<tr>
<th>Tenement</th>
<th>Ten no.</th>
<th>Blocks Granted</th>
<th>Blocks Relinq.</th>
<th>Blocks Retain</th>
<th>Grant Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crawford Creek</td>
<td>24948</td>
<td>315</td>
<td>299</td>
<td>16</td>
<td>3 July 2006</td>
</tr>
</tbody>
</table>

**Table 1**: Tenement details
4.0 Geology/Prospectivity

EL 24948 originally covered two major geological entities which are prospective for various commodities. The northern part of the tenement covered the eastern part of the 1690-1610 Ma Warumpi Province, which has had very limited mineral exploration due to access difficulties and poor exposure. Nevertheless, two Zn-Cu-Pb-Ag (Stokes Yard, Ulpuruta) and two Cu-Zn-(Au) (Haasts Bluff, Mount Larrie) prospects are known in the eastern part of the province, quite near to EL 24948. Moreover, exploration in the Warumpi Province immediately east of EL 24948 has identified low-grade uranium mineralisation within the ca.1140 Ma Teapot Granite (rock chips up to 0.54 % U$_3$O$_8$; Crossland Uranium) and alluvial heavy mineral concentrates enriched in REE and Zr (Charley Creek Project; Crossland Uranium).

The southern part of EL 24948 covers the northern Amadeus Basin, including areas of Brewer Conglomerate, which hosts the Angela uranium deposit.

The remaining 16 blocks of tenure only cover the Warumpi Province geology.

5.0 Northern Mining Limited Work

5.1 Years 1-3
In the first year of tenure, work was dominated by the production of the Northern Mining Limited prospectus. Some follow-up rock chip sampling was completed at Pioneer Point where previous results suggested moderate uranium grades within sandstone. The follow up work downgraded this mineralisation (see previous Annual Report for details).

There was only limited office work in years 2 and 3 due to staffing difficulties and then funding problems during the Global Financial Crisis.

5.2 Year 4
In the fourth year of tenure, Northern Mining Limited carried out a detailed airborne geophysics survey and limited field work on EL 24948. Field work was limited in 2010 due to unseasonable wet weather and so planned field work was severely truncated. Moreover, the unseasonable wet weather caused delays in flying the airborne geophysical survey such that half of the tenement was dropped before the survey even commenced.

Limited field work was completed on the tenement portion that was dropped at the end of the fourth year of tenure. The field work comprised checking the unconformable contact between the Bitter Springs and Areyonga Formations for copper mineralisation which has been identified elsewhere in the Amadeus Basin. A traverse was also completed across the Brewer Conglomerate to check for Angela-style uranium mineralisation. It was decided that neither of these
mineralisation styles were likely within the tenement and so these areas were relinquished.

An airborne geophysical survey was completed over the remaining portion of EL 24948. The programme was planned to cover the entire survey, but delays due to the unseasonable weather resulted in half of the tenement been dropped prior to flying.

The airborne survey was completed by UTS Aeroquest and included magnetics, radiometrics and digital terrain. A summary of the general airborne survey and the logistics report are presented in Table 2.

<table>
<thead>
<tr>
<th>Project Name</th>
<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>Area 1</td>
<td>100 m</td>
<td>000-180</td>
<td>1000 m</td>
<td>090-270</td>
<td>50 m</td>
<td>1,205</td>
</tr>
<tr>
<td>Area 2</td>
<td>100 m</td>
<td>000-180</td>
<td>1000 m</td>
<td>090-270</td>
<td>50 m</td>
<td>1,779</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,984</td>
</tr>
</tbody>
</table>

Table 2: General statistics of the 2010 UTS Aeroquest geophysical survey.

5.3 Year 5
In the fifth year of tenure, scheduled fieldwork was aborted due to unseasonable wet weather. A field crew was assembled in Alice Springs, but access to the field area was deemed impossible. For example, parts of the recently sealed Mereenie Loop road had been washed away and were flooded. The field crew was disbanded and the work rescheduled for the middle of 2011.

Preliminary interpretation of the airborne geophysical data collected in 2010 was completed. The aborted fieldwork was required to complete this interpretation. Again, this work has been rescheduled to 2011.

5.4 Year 6
In the sixth year of tenure no substantial field work was completed. A reconnaissance trip to show new management the area was completed, but bush fires in the area caused rescheduling of two field mapping and sampling trips. This work has now been rescheduled to September 2012.

The recent release by the Northern Territory Geological Survey of processed ASTER imagery over the entire NT has provided a useful dataset that needs to be explored. The initial images for EL 24948 have been imported into Northern Mining’s GIS and preliminary images have been generated (Figures 5 & 6). Ground truthing is required to obtain maximum benefit of these images.
5.4 Year 7 (proposal)
In the coming year, Northern Mining’s work programme for EL 24948 will be that proposed and abandoned for the last two year. It includes:

- interpretation of geophysical surveys (now includes ASTER),
- field reconnaissance of radiometric, magnetic and ASTER anomalies, and
- surface sampling of radiometric, magnetic and ASTER anomalies.

The aim of this work is to identify targets for further geophysical work or drilling, and, if successful, the budget would increase significantly.

<table>
<thead>
<tr>
<th>Item</th>
<th>Expenditure</th>
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</thead>
<tbody>
<tr>
<td>Geophysical interpretation (includes ASTER)</td>
<td>$2,500</td>
</tr>
<tr>
<td>Field reconnaissance (mapping, sampling)</td>
<td>$8,000</td>
</tr>
<tr>
<td>Surface sample assays (lag, soil, rockchip)</td>
<td>$5,500</td>
</tr>
<tr>
<td>Field costs (includes vehicles)</td>
<td>$6,000</td>
</tr>
<tr>
<td>Wages, consultants</td>
<td>$8,000</td>
</tr>
<tr>
<td>Administration</td>
<td>$4,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$34,000</strong></td>
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</tbody>
</table>

6.0 Environmental

No ground disturbing work has been undertaken on EL 24948.
Northern Mining Limited

Figure 1: EL24948 "Crawford Creek"
Location and tenure status
Hermannsburg 1:250,000 topography

UTM 53 1:180000 Drafted by RAGS Sept 2012

Stokes Yard Cu-Pb-Zn-Ag Prospect

retain 16 blocks

relinquished 2010

relinquished 2009

relinquished 2012

relinquished 2011

West Macdonnell National Park

Stokes Yard

Cu-Pb-Zn-Ag

Prospect

numerous cleared lines

Tylers Pass

Tylers Pass

0 5 km
Figure 2: EL24948 "Crawford Creek"
Location and tenure status
Hermannsburg 1:250,000 geology

- Stokes Yard
  - Cu-Pb-Zn-Ag
  - Prospect

Retention information:
- Retain 16 blocks
- Relinquished 2010
- Relinquished 2009
- Relinquished 2012
- Relinquished 2011

Geological features:
- Pgt - Teapot Granite
Figure 3: EL24948 "Crawford Creek"
Total magnetic intensity; grey scale - NMI survey; colour - regional data
UTM 53  1:170000  Drafted by RAGS  Sept 2012

Northern Mining Limited

Stokes Yard
Cu-Pb-Zn-Ag Prospect

Warumpi Province
(highly variable-noisy texture)

Amadeus Basin
(linear texture)
Northern Mining Limited

Figure 4: EL24948 "Crawford Creek"
Radiometrics Total Counts; colour - NMI survey; grey scale- 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)
Figure 5: EL24948 "Crawford Creek" ASTER imagery - MgOH group content over grey-scale false colour

UTM 53 1:170000 Drafted by RAGS Sept 2012
Figure 6: EL24948 "Crawford Creek"
ASTER imagery - Opaque index over grey-scale false colour

UTM 53 1:170000 Drafted by RAGS Sept 2012