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<th>Plan No.</th>
<th>Title</th>
<th>Scale</th>
</tr>
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<tr>
<td>pAI08_002</td>
<td>Tenement and Relinquished Area Location Plan</td>
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</tbody>
</table>
1. **SUMMARY**

   Exploration license (EL) 22413 Baiguridji River was applied for by Rio Tinto Exploration Pty Limited (RTX) on 11 February 2000 and was granted on 18 May 2006. RTX is the sole manager and operator of this tenement.

   EL 22413 is located 150km southwest of Nhulunbuy, east Arnhem Land and consequently is processed under the Aboriginal Land Rights Act 1975 (ALRA).

   This first relinquishment report describes the work carried out to date over the relinquished area of EL 22413.

   As required 10 blocks (50%) have been relinquished.

   EL 22413 forms part of the larger contiguous tenement package in east Arnhem Land, which is prospective for bauxite and base metals.

   A review of previous work, air photo interpretation and digital terrain model interpretation was carried out over the relinquished area.

   There is low potential for bauxite in the relinquished area.

2. **INTRODUCTION**

   Exploration Licence (EL) 22413 Baiguridji River was applied for by RTX on 11 February 2000 and was granted on 18 May 2006. RTX is the sole manager and operator of this tenement.

   The original tenement application covered an area of 117.1km² of which 62.5%, 66.9km² (20 blocks) was granted. The remainder of the application area was rejected. EL 22413 is located 150km southwest of Nhulunbuy, east Arnhem Land and consequently is processed under the Aboriginal Land Rights Act 1975 (ALRA).

   This first relinquishment report describes the work carried out to date over the relinquished area of EL 22413.

   As required 10 blocks (50%) have been relinquished.

   EL 22413 forms part of the larger contiguous tenement package in east Arnhem Land, which is prospective for bauxite and base metals.

   A review of previous work, air photo interpretation and digital terrain model interpretation was carried out over the relinquished area.

   Tenement details are included in Table 1 below. See pAl08_002 for tenement location.

   All exploration was completed in accordance with a DPIFM lodged and approved Mine Management Plan (Hartshorn 2007).
Table 1: Tenement Details

<table>
<thead>
<tr>
<th>Tenement No.</th>
<th>Tenement Name</th>
<th>Application Date</th>
<th>Grant Date</th>
<th>Blocks Applied</th>
<th>Blocks granted</th>
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<td>11/2/2000</td>
<td>18/5/2006</td>
<td>35</td>
<td>20</td>
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3. PREVIOUS EXPLORATION

In the mid to late 1960’s BHP Pty Ltd explored for Bauxite and Manganese mineralisation in the region, during which a graded track was constructed through the eastern part of EL 22413, near to the relinquished area. No drilling is recorded within the relinquished area.

No work has been conducted within the relinquished area since the late 1960’s.

4. GEOMORPHOLOGY

EL 22413 is situated immediately north of the junction between the Baiguridji and Koolatong Rivers, northern Blue Mud Bay. To the north are the Frederick Hills, these low and subtle foothills extend into the tenement area (<30m elevation), and are dissected by the Baiguridji River, which flows south-southeast through EL22413 from its northwestern corner. To the west are the Mitchell Ranges which help define the boundary of the ‘Coastal Plain’ (Plumb & Roberts 1965, 1992 from Haines et al. 1999) physiographic sub-division. EL 22413 lies exclusively within the Coastal Plain sub-division.

5. GEOLOGY

The geology of the tenement area consists of variably lateritised undifferentiated Cainozoic deposits (Haines et al., 1999). The basement in the tenement area is probably the Palaeoproterozoic Coastal Range Sandstone, Jalma Formation or Balma Group.

6. GEOPHYSICS

The project area is covered by a regional scale aeromagnetic and radiometric survey flown for the NTGS in 1990-93 (Haines et al., 1999). The radiometric data can be used to help distinguish between the laterite-covered areas from those of both basement and Quaternary sand cover.

7. EXPLORATION COMPLETED

Exploration completed included:

- Review of previous exploration.
- Air Photo and Digital Terrain Data Interpretation

7.1 Air Photo and Digital Terrain Data Interpretation

Air Photos and digital terrain data sets were used to define the size of the potential bauxite target. Results downgraded the potential in the relinquished area.
8. **ENVIRONMENT**

There was no field work completed in the relinquished area.

9. **CONCLUSIONS AND RECOMMENDATIONS**

The area relinquished has low lying, flat topography. It includes permanent and perennial water courses and swamps. This area holds negligible potential for bauxite.
REFERENCES


LOCALITY

Blue Mud Bay        SD 5307        1:250 000

DESCRIPTOR

Partial Relinquishment Report EL 22413 Baiguridji River, North East Arnhem Land for the period 18 May 2007 to 17 May 2008 Blue Mud Bay SD 5307.

KEYWORDS

Baiguridji River, bauxite, air photo, digital terrain model interpretation