MINCOR ZINC PTY LTD
GEORGINA BASIN PROJECT
EL 25089, EL 25091-92, 25094, 25143

Partial Surrenders Report 2011

FOR THE PERIOD
7 September 2006 to 1 October 2011

Distribution:
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1. SUMMARY

The Georgina Basin Project tenements are located approximately 225 kilometres northeast of the Northern Territory township of Alice Springs (350-400km by road), with the main access via the Plenty Highway. The boundaries of the leases are located within the 1:250,000 scale Huckitta (SF 5311) and Tobermory (SF 5312) map sheets.

Work of a technical nature over the surrendered ground was restricted to regional helicopter assisted gravity survey (all digital data already lodged with NTGS), regional (ionic leach) soil sampling traverses and selected stream sediment geochemistry. Geological ground-truthing was carried out in areas of soil geochemistry anomalous; however no detailed geological mapping has been conducted on the surrendered ground.

Planned follow-up drilling activities scheduled to commence earlier in the reporting period were postponed until the 2011-12 field season due firstly, to heavy summer rains that severely restricted access to the area, and secondly by restricted drill rig availability. The combination of the above unforeseen factors resulted just two (2) of five (5) planned drillholes being collared, both within the retained portions of EL25089 and EL25091.
Table of Contents

1. SUMMARY ........................................................................................................................................................................... (ii)
2. INTRODUCTION .................................................................................................................................................................. 1
3. TENEMENTS ......................................................................................................................................................................... 2
4. REGIONAL GEOLOGY .......................................................................................................................................................... 4
5. EXPLORATION ACTIVITIES ................................................................................................................................................ 6
6. CONCLUSIONS ....................................................................................................................................................................... 8

List of Figures

Figure 1: Georgina Tenement Location Plan - Ground Retained .......................................................................................... 3
Figure 2: The Centralian Superbasin and the component basins ............................................................................................ 4
Figure 3: The geology of the Georgina Project area .................................................................................................................. 5
Figure 4: Soil Sample Sites ...................................................................................................................................................... 6
Figure 5: Stream Sediment Sample Sites ............................................................................................................................... 7

List of Tables

Table 1: Georgina Basin Project Tenement Schedule and expenditure .................................................................................. 2

List of Appendices (as digital file by email)

Appendix 1: Analytical Data Files (ASCII, CSV) .................................................................................................................. 1
Appendix 2: Figure 1,4-5 (PDF) .............................................................................................................................................. 2
2. INTRODUCTION

Located approximately 225 kilometres northeast of the Northern Territory township of Alice Springs (variably 350-400km by road) the surrendered portions of tenements EL 25089, EL25091-92, EL25093-94, EL25143 and EL26933 comprise part of the Georgina Basin Project (see Table 1, and Figure 1 below). The main access to the project is via the Plenty Highway. The boundaries of the licences are located within the 1:250,000 scale Huckitta (SF 5311) and Tobermory (SF 5312) map sheets.

Exploration activities within the surrendered portions of the project area were intermittently conducted over the period 2007-09, and were in part curtailed by Native Title issues; the location of stream sediment and soil samples were on occasion modified, and some large areas placed in exploration moratorium for cultural reasons (particularly on the now surrendered EL25093).
3. TENEMENTS

Table 1 below summarises the current tenement holding of the entire Georgina Basin Project; technical work on surrendered ground for EL26933 (75%) and EL25093 (100%) have previously been reported on and lodged with the NTGS in September 2011 and October 2011 respectively. This report summarises work carried out on surrendered ground for the remaining tenements EL25089, EL25091-92, EL25094 and EL25143.

The project tenements were granted between 7th September 2006 and 2nd October 2006, and prior to the current round of surrenders covered an area of some 3,878 km². Subsequent tenement relinquishments in 2011 reduced the land holdings down to 475 graticular blocks or 1520 km² (yellow area in Figure 1 below).

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<th>Licence</th>
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<th>Grant</th>
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<td>26/07/2015</td>
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<td></td>
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<td>1212</td>
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*Table 1: Georgina Basin Project Tenement Schedule and Expenditure.*
Figure 1: Georgina Tenement Location Plan - Ground Retained.
4. REGIONAL GEOLOGY

The Georgina Basin is a broad, northwest-southeast trending, intracratonic depression which is about 1000km long and 500km wide, underlying an area of some 325,000km² of the Northern Territory and Queensland. Approximately 60 percent of the basin area (195,000km²) lies within the Northern Territory borders (Figure 2).

The basin contains prospective Cambrian and Ordovician marine carbonate and clastic sediments and Devonian continental sediments, Neoproterozoic (Vendian) clastics are also considered prospective in places. Sediments were deposited in a series of subtidal to supratidal environments over part of an extensive epicontinental shelf. The Palaeozoic sediments progressively thicken in a SSE direction, rarely exceeding 400 metres in the northern half of the basin and becoming significantly thicker in the southeast (Toko Syncline). The sedimentary sequence of the basin proper appears to have been neither metamorphosed nor intruded by igneous rocks.

The present outline of the Georgina Basin is an erosional remnant of a much larger, early Palaeozoic sedimentary province that once covered much of north central Australia.

![Figure 2: The Centralian Superbasin and the component basins.](image)

The basin was once contiguous with the Amadeus Basin to the south, but is now separated from it by the Archaean Arunta Block. It is not known at present if, or to what extent the Georgina Basin is connected to the Wiso Basin to the west and the Daly Basin to the northwest. The northwest and southwest extremities of the basin are concealed beneath Mesozoic and Cainozoic sediments which mask the actual limits of the basin in these localities. The Davenport Range and the Tennant Creek Block, both comprising deformed Early Proterozoic sediments, provide at least partial separation of the three sedimentary basins.
The basin is fully confined by Archaean to Late Proterozoic metamorphic and igneous rocks. In addition to the structural elements described above, the Georgina Basin is bounded by the Mt Isa Block to the east, while to the north the basin extends as a thin veneer which overlies the Antrim Plateau Volcanics and the potentially prospective Proterozoic McArthur Basin.

The basin has been deformed by minor to moderate folding and faulting, especially in the south and east, with folding, faulting and some overthrusting along the southern margin. Most of the structural deformation occurred during the Late Devonian to Early Carboniferous Alice Springs Orogeny. Work by Pacific Oil and Gas has shown that mainly flat lying, Ordovician sediments can conceal and disguise earlier Palaeozoic structuring. North of latitude 21°S, the Georgina Basin sequence is gently undulating, with no pronounced folding recognised other than the Lake Nash Anticline which is interpreted to be a supratenuous fold. In the north, faults are recognised only along the basin margin.

The most prominent structural elements in the basin are the Dulcie and Toko Synclines, both of which are asymmetric folds with steep dips on their SW flanks; the “GMI” linear which has been identified from gravity and magnetics and is believed to be a basement feature; and the “Jinka Feature”, another gravity-magnetic linear, the surface expression of which occurs in the Lucy Creek-Mt Playford Ooratippra Fault Zones.

In the southern portion of the basin, Late Proterozoic-Early Cambrian sediments are now regarded as basal units; elsewhere in the basin, Middle Cambrian rocks are regarded as basal units.

**Figure 3: The geology of the Georgina Project area**
5. EXPLORATION ACTIVITIES

The recently surrendered portions of the Georgina Basin Project have been partly inaccessible from time to time due to unseasonal heavy rainfall and more recently the threat of bushfire. A regional soil and stream sediment sampling program was principally conducted in 2008-09 with some brief follow-up work carried out in late 2010; limited examination of outcrops was carried out in conjunction with the geochemical sampling (Figures 4, 5 below).

A total of 1937 soil samples (Figure 4), and 152 stream sediment samples (Figure 5) were collected within the surrendered ground during the term of the tenement. Soil samples were sent directly to ALS Perth where they were subjected to Ionic (sodium cyanide) Leach, then ICP-MS multi-element analysis; stream sediment samples were sent initially to ALS Alice Springs for routine preparation and then on to ALS Perth for four-acid digest multi-element analysis using ICP-MS spectroscopy (see Appendix 1 for full analytical data).

No significant anomalism related to MVT style Base Metal sulphide mineralisation was encountered.

Figure 4: Soil Sample Sites
Figure 5: Stream Sediment Sample Sites
6. CONCLUSIONS

Due to various cultural issues parts of the surrendered ground has been somewhat difficult to explore (particularly EL25093 and the general Dulcie Range area). The limited exploration activities that have been carried out (surface geochemical sampling), failed to detect any geochemical anomalies which could likely be associated with a significant base metal deposit. Mincor Zinc Pty Ltd has therefore decided to surrender the ground.
Appendix 1:

Analytical Data Files (ASCII, CSV)
Appendix 2:

Figure 1, 3-4-5 (PDF)