MOLYHIL MINING PTY LTD

EL 28948 “Baikal”

Compulsory Reduction Report
(8/17 blocks)
29/02/2012 – 29/02/2016

HUCKITTA 1:250K MAP SHEET
Contents
INTRODUCTION ........................................................................................................................................... 4
Location and Access .................................................................................................................................... 4
Topography and Drainage ............................................................................................................................ 5
TENURE ..................................................................................................................................................... 5
Exploration Licences .................................................................................................................................... 5
Land Tenure ................................................................................................................................................... 5
GEOLOGY ..................................................................................................................................................... 5
Regional Setting .......................................................................................................................................... 5
Local Setting ................................................................................................................................................ 5
EXPLORATION ACTIVITY ......................................................................................................................... 7
REFERENCES ............................................................................................................................................... 8

Figure 1: EL28948 “Baikal” site location with relinquished blocks outlined in blue ................................. 4
Figure 2: Geological regions of the Northern Territory and project area (NTGS). ................................. 6
Figure 3: Published geology of the relinquished area. ............................................................................. 7

Copyright:
This document and its content are the copyright of Thor Mining. The document has been compiled by Richard Bradey for submission to the Northern Territory Department of Mines and Energy as part of the tenement reporting requirements of the Minerals Titles Act 2010.

Any information included in the report that originates from historical reports or other sources is referenced within the document. I authorise the department to copy and distribute the report and associated data.
SUMMARY

EL28948, known as “Baikal” is prospective for tungsten with multiple outcropping occurrences documented in association with the Kings Legend Amphibolite and Samarkand Pegmatite hosted within the Palaeoproterozoic Bonya Metamorphic. The geology of the relinquished blocks subject of this report predominantly occurs beneath thick transported cover thus limiting the prospectivity of the area. No on ground work was completed on the relinquished blocks.
INTRODUCTION
EL 28948 is considered to be prospective for base metals, tungsten and molybdenum in the Bonya Metamorphics. Thor mining is principally interested in locating satellite tungsten resources for its Molyhil tungsten molybdenum project 30 km to the west on EL22349.

Tungsten mineralisation that has been identified at numerous locations within the Bonya Range area occurs predominantly in association with Kings Legend Amphibolite and Samarkand Pegmatite hosted by the Palaeoproterozoic Bonya Metamorphics. The three most north easterly blocks of EL28949 do not include this prospective geology and have thus been relinquished.

Location and Access
EL 28949 is located on the Huckitta 1:250,000 map sheet (SF53-11) 300km northeast of Alice Springs centred around the Bonya aboriginal community. Access is via the Plenty Highway to the Bonya settlement (Figure 1)

Figure 1: EL28948 “Baikal” site location with relinquished blocks outlined in blue
Topography and Drainage
EL 28948 is located on the eastern margin of the Bonya Range. Bonya Creek passes through the tenement with water present and flowing to the south east only after significant rainfall events. There are no permanent rivers or significant water holes in the tenement.

TENURE

Exploration Licences
Exploration licence (EL) 28948 comprising 17 sub-blocks (46.4 sq km) was granted to Thor Mining on 1 February 2012 for a period of six years.

The tenement was formerly part of EL10215 held by Arafura Resources.

Land Tenure
The lies entirely within the Jervois perpetual pastoral leases (PPL): PPL 962 Jervois Pastoral Company, PMB 36, Alice Springs NT 0871

GEOLOGY

Regional Setting
The tenement sits within the aileron province of the Arunta Region, an area of more than 200,000 km² of metamorphic rocks in the southern parts of the NT. The Arunta is subdivided into three distinct geological regions by the NTGS, the Ailerion, Warumpi and Irindina Provinces (Figure 2).

Local Setting
The published geology for the tenement is provided in Figure 3 taken from the 1:250,000 Huckitta map sheet and described in detail by Freeman (1986). The tenement sits at the southern margin of a fault bound block of the Palaeoproterozoic Bonya Metamorphics. The southern margin of the block which is hidden beneath transported sedimentary cover comprises a faulted contact with rocks of the palaeoproterozoic Strangways Metamorphic Complex.
Figure 2: Geological regions of the Northern Territory and project area (NTGS).
EXPLORATION ACTIVITY

The initial work has comprised the consolidation and review of existing public domain data sets to develop targets for subsequent ground based follow up.

As part of a broader program including all of the Thor Mining Aileron tenements, a geophysical consultant was also commissioned to consolidate, review and where appropriate reprocess the existing geophysical data sets.

As a result of the review work and subsequent site reconnaissance, the area relinquished was deemed to have a low prospectivity for further tungsten discovery with the added disadvantage of extensive transported sediment cover. As a result no further exploration work was undertaken on the relinquished blocks.

Figure 3: Published geology of the relinquished area.
REFERENCES