FIRST ANNUAL REPORT

EXPLORATION LICENCE 27568

Ooratippra Project

For the reporting period 1st March 2010 to 2nd March 2011

ACACIA MINERALS Pty. Ltd

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Project Name: Ooratippra

Map Sheets: ELKEDRA SF53–07 1:250,000
HUCKITTA SF53–11 1:250,000

Commodities: Gold, Base Metals

Licensee: Acacia Minerals Pty. Ltd.

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SUMMARY

The Ooratippra Project, held by Acacia Minerals Pty Limited, covers approximately 2,500 square kilometres straddling the Sandover Highway approximately 300 kilometres northeast of Alice Springs. Acacia Minerals, which holds the tenements, is a wholly owned subsidiary of NT Resources Limited, a public company listed on the Australian Stock Exchange.

A submission was presented by NT Resources on behalf of its subsidiary Acacia Minerals to undertake a regional gravity survey under the Northern Territory Government’s “Bringing Forward Discovery” collaborative program instigated by the Department of Resources – Minerals and Energy.

NT Resources Limited recognises the similarities between the Ooratippra regional co-incident magnetic and gravity anomalies and the Olympic Dam style iron oxide copper gold (“IOCG”) deposit geophysical signature.

A 2,485 station, 1000 metre spaced grid ground-based gravity survey was completed in September 2010 and final interpretive report compilation was completed in early 2011. The survey was designed to better constrain the regional gravity anomaly, and facilitate modeling depth to basement, enhance basin and basement structures, and outline the residual gravity anomaly for a targeted diamond core drilling programme planned to drill to basement below the Georgina Basin sediments for IOCG-style mineralisation.

NT Resources committed to implement this gravity programme as an important part of its approved geophysical and drilling programmes on all its projects for 2010 and for future exploration programs.

EL27568 became an important parcel of exploration licence in the north-east part of the gravity survey to enable a comprehensive coverage of the region by the gravity survey.

Expenditure for the reporting was $24,765.94 against a covenant of $24,300.
1.0 INTRODUCTION

Acacia Minerals Pty Limited ACN 127 419 729 (Acacia), a Territory based exploration Company, applied for EL27568 in August 2010 and it was granted in March 2010.

Acacia Minerals which holds the tenements is a wholly owned subsidiary of NT Resources Limited, a public company listed on the Australian Stock Exchange. NT Resources Limited listed on the Australian Stock Exchange, (ASX) on the 1st of February 2010, raising $3,000,000 for exploration and related expenses in the Northern Territory.

The tenement of 46 Blocks covers 131.19 sq. km of land falling within NT Portion 2981 being Perpetual Pastoral Lease 921 (Ooratippra) owned by the Ooratippra Aboriginal Corporation.

The Ooratippra Project which includes multiple exploration licences held by Acacia Minerals Pty Limited, covers approximately 3,000 square kilometres straddling the Sandover Highway approximately 300 kilometres northeast of Alice Springs.

NT Resources Limited (“NT Resources”) recognises the similarities between the Ooratippra regional co-incident magnetic and gravity anomalies and the Olympic Dam style iron oxide copper gold (“IOCG”) deposit geophysical signature.

This conceptual model was tested initially by a detailed gravity survey and will be followed by a proposed drilling program.

While minor exploration for base metal mineralisation hosted in calcareous sediments of the Georgina Basin cover sequence has been previously undertaken by various companies, no systematic investigation of the pronounced magnetic and gravity anomalies in the Altjawarra Craton basement has yet been conducted. The Altjawarra Craton (Myers, J. S. et al 1996) is the completely buried south-eastern extension of the composite North Australian Craton in which, among other attributes, most of Australia’s producing diamond mines are found. NT Resources tenements cover its geophysically-defined ‘Altjawarra Cratonic Nucleus’.
2.0 LOCATION

EL27568 is situated approximately 350kms southeast of Tennant Creek. The Licence area covers parts of the Elkedra and Huckitta 1:250 000 scale map sheets.

Access to the Licence area from Tennant Creek is south via the Stuart Highway and then east onto the Ali Curung Aboriginal Community road. This leads to the Sandover Highway which is then followed approximately 80kms east to the northwest portion of the Licence area. Most of the EL has little relief and vegetation, and is quite accessible via good station tracks servicing the water bores in the area.

Alternatively, the Licence area can be accessed via the Sandover Highway from Mount Isa or Alice Springs, and south using the Lucy Creek Station roads.

There is also a good all-weather landing strip approximately 3 kilometres south of the Ooratippra Homestead.

Figure 1. shows the Exploration Licence and the Ooratippra Project in relation to the Sandover Highway and other tenements held by Acacia Minerals.

Much of the project area is drained by the upper tributaries of the east flowing Sandover River system which includes Ooratippra Creek. These watercourses flow after rain during the wet season but are dry for most of the year.
Figure 1. EL27568 Location Plan
3.0 TENURE

Exploration Licence 27568 was granted to Acacia Minerals on the 11th of March 2010 for a period of 6 years.

The Licence is worked as part of the Ooratippra Project and adjoins SEL 27526 which was granted on the same day.

The tenement of 46 Blocks covers 131.19 sq. km of land falling within NT Portion 2981 being Perpetual Pastoral Lease 921 (Ooratippra) owned by the Ooratippra Aboriginal Corporation.

In Figure 1, it can be seen that EL27568 compliments SEL27526 and enabled a comprehensive gravity survey to be undertaken over the entire tenement holding.
4.0 GEOLOGY

4.1 Regional Geology

The Georgina Basin (Dunster, et al 2006) is a 330,000km$^2$ erosional remnant of a series of originally interconnected central Australian intracratonic basins, including the Savory, Officer, Ngalia and Amadeus Basins, which range from Neo-proterozoic to Palaeozoic in age. It covers most of the central-eastern Northern Territory and extends into Queensland. In excess of 1.5km thickness of Neo-proterozoic sedimentary rocks are preserved in downfaulted blocks and half-grabens on the southern margin of the Georgina Basin in the Northern Territory. Depocentres and synclines contain up to 2.2km of Cambrian to Devonian stratigraphy. The southern part of the basin contains the thickest successions and demonstrates the strongest structuring related to distal effects of the 320Ma Alice Springs Orogeny. This part of the basin is the most prospective undeveloped onshore petroleum province in the Northern Territory.

In contrast to the southern region, the central Georgina Basin north of latitude 21°S contains a relatively thin stratigraphic succession less than 450m thick, deposited on a tectonically quiescent platform. This central platform has been subdivided into the eastern Undilla Sub-basin and the western Barkly Sub-basin, separated by the Alexandria-Wonarah Basement High.

The northern Georgina Basin is largely concealed beneath Mesozoic sedimentary rocks of the Dunmarra Basin.
4.2 Local Geology

The NT Resources tenement area sits within the south part of the Georgina Basin and is entirely covered by Palaeozoic sediments (Figure 2). The cover sequence of this area is a simple sequence of gently folded, predominantly calcareous, sediments. The three main units are:

The Lower Ordovician-Upper Cambrian Tomahawk Beds of calcareous sandstone; buff, green and white siltstone; brown dolomite, grey siliceous limestone, grey oolitic limestone, glauconitic sandstone and chert.

The Upper Cambrian Arrinthruna Formation which is mainly brown and buff massive dolomite and limestone, plus thin interbeds of calcareous sandstone, blue oolitic algal limestone and shale.

The Upper Cambrian Eurowie Sandstone Member consisting of brown quartz sandstone.

Tertiary laterites and recent surface deposits are the youngest rocks in the area (Figure 2).

Deep basement regional gravity and magnetic data suggest that the central part of the current entire Ooratippra project area overlies a basement high. Several moderate linear magnetic features cut the area and some of these can be correlated with surface faults.

Figure 2. EL27658 Geological setting
5.0 LANDOWNER LIAISON

NT Resources has good relations with the Aboriginal Corporations which own the pastoral leases. In addition, NT Resources, through its wholly owned subsidiary Acacia Minerals Pty Limited, has negotiating an Access Agreement with the Central Land Council (“CLC”) which will facilitate any required site clearances and allow NT Resources to proceed with exploration, including drilling. No claims on Native Title have been determined at this time.

6.0 REHABILITATION

The airborne helicopter gravity survey did not disturb the ground in any way. No field work was carried out by the Company on the Project Area during the year which requires any rehabilitation measures.

7.0 WORK DONE DURING THE YEAR

7.1 Geophysics

Figure 3. shows how the dominant gravity anomaly lies within the exploration licence coverage held by Acacia Minerals.

Figure 3. EL27568 Gravity survey location
Ooratippra has a basement gravity anomaly considerably stronger than those at Prominent Hill and Olympic Dam in South Australia, clearly suggesting that the Ooratippra Project area has considerable potential to host IOCGU-style uranium, gold and base metal occurrences. Virtually no exploration work for this style of target has been conducted over the Project area.

Consequently, the Company commissioned Atlas Geophysics of Perth to carry out a helicopter borne gravity survey.

The original collaborative funding documentation submitted by Acacia Minerals has been included as part of the data package on the accompanying CD as APPENDIX 1.

An interpretive report produced by consultant geophysicist Mr. Frank Lindeman is included as part of the data package on the accompanying CD as APPENDIX 2.

The complete raw gravity survey data files are included in APPENDIX 3. on the accompanying CD.

8.0 PROPOSED EXPLORATION FOR YEAR TWO

As per Mr. Frank Lindeman’s recommendations, it is proposed to undertake a detailed infill gravity survey in areas outlined in his summary report. It is anticipated that a drilling program will be designed to test targets identified from the detailed gravity results. The expected expenditure involved to undertake the proposed program will be in the order of $20,000.

CONCLUSION

In his report, Mr. Frank Lindeman recommended that NTR engages Atlas Geophysics to carry out a series of detailed traverses over the two areas of interest discussed in the his summary report then carry out further interpretation of the resulting data. A station spacing of 100m to 200m along each line is suggested.

A program for this work will be designed for the future (Second Year) exploration of the region.
BIBLIOGRAPHY


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