



ASX / MEDIA RELEASE

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## EXPLORATION UPDATE

### **Drilling underway on high grade copper targets**

Copper developer Redbank Mines (ASX: RBM) has this week kicked off an 8,000 metre drilling program to test identified sulfide targets at its Redbank Copper Project in the Northern Territory.

The drilling program is part of the 2009 \$2.5 million exploration campaign which has the aim of doubling the existing resources of mineable copper sulfide. Redbank has 3,700km<sup>2</sup> tenements in the McArthur South region which is considered prospective for copper, cobalt, phosphate, manganese and uranium.

The Company has recently completed detailed transient electro-magnetics (EM) and gravity surveys across its highly prospective ERL94 tenement. Redbank Managing Director Bruce Morrin says the EM surveys have confirmed high grade sulfide deposits and targets for immediate drilling, as well as identifying some very interesting results in untested areas.

"Our EM work has generated significant sub-circular anomalies which are either coincident with, or adjacent to known deposits and targets and we believe it is possible that further targets will be identified following the completion of the processing and further interpretation of the EM survey," Mr Morrin said. (see Map 1)

The EM was conducted by Alpha Geoscience using electro-magnetic impulses to investigate subsurface geology based on conductivity differences. This has successfully defined known sulfide resources and likely additional sulfide targets, and in particular, large anomalies at Quartzite, Punchbowl and Azurite.

At the Prince deposit, in the southwest corner of the lease, a large positive anomaly was generated 200m southeast of historic workings and associated drilling. The anomaly contains a significant EM bullseye target that is to be followed up with drill testing.

The initial 8,000m program at ERL94 will include 7,000m of RC drilling, as well as 1,000m of large diameter diamond drilling for metallurgical and geotechnical purposes. The RC program is being undertaken by Downer EDI and the diamond drilling by Wild Drilling Pty Ltd.

"Our initial drilling efforts will focus on the Quartzite, Punchbowl and Prince deposits, where our EM program has identified high priority targets, all of which are within close proximity to the established processing facilities," Mr Morrin said.

This will be followed by drilling of zones between 100-150m vertical depth at Bluff and Sandy Flat, where previous preliminary optimisations have shown open pits to extend to these depths. These holes will provide resource definition, metallurgical and geotechnical information to each deposit. Further RC drilling will be undertaken at San Manuel, Roman Nose, Azurite and the Kerslake areas, as interpretation of the geophysical data is completed and targets are finalised.

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Interpretation of gravity data collected by Haines survey over ERL94 at spacings down to 100m x 100m is continuing. Lines of EM were also recorded over two preliminary ground gravity anomalies. A significant “pull down” feature was noted in the middle of a previously unmapped north-south structural zone, in the proximity of the Kerslake area. At least four zones of interest have been generated from the preliminary gravity data.

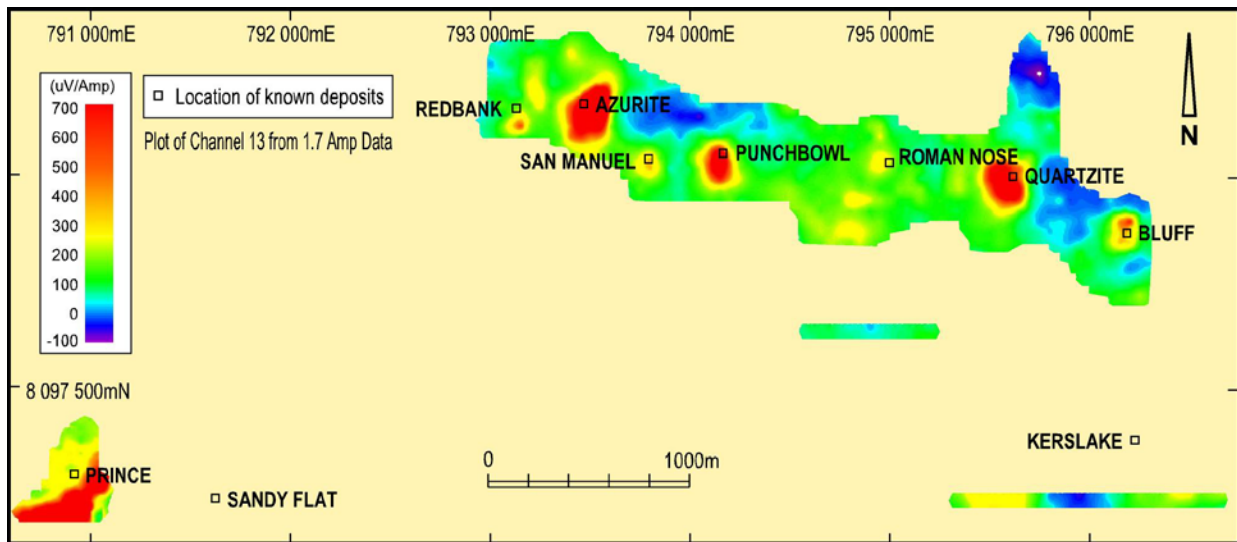
A close-spaced ground magnetic survey is continuing, where coverage of the Redbank-Bluff corridor is nearing completion. The data is showing remarkably linear and previously unmapped thin (20-50m) east-west magnetic units, with known mineralisation occurring on the flanks of these units, or more usually in a lower magnetic zone between two magnetic units.

**For further information, please contact:**

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**Map 1:**



**Total Data Plot from Transient Electromagnetic Survey, ERL94, 2009**

**Competent Person**

The information contained in this announcement insofar as it relates to the Company's geological information at the Redbank Copper Project is sourced from information compiled by Mr. Craig Hall BSc(Hons), MAusIMM, MAIG. Mr. Hall is a senior manager of the Company. Mr. Hall has sufficient expertise relevant to the style of mineralization and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Hall has approved the inclusion of the statement in the form and context in which it appears.

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## About Redbank Mines

Redbank Mines is an Australian based ASX-listed resource company (ASX: RBM) focused on the development of the Redbank Copper Mine in the north east of the Northern Territory.

The project is located in the Redbank Mineral Field in the NT, where the Company holds a substantial ground position. The region hosts significant economic copper mineralisation and is highly prospective for copper, cobalt, phosphate, manganese and uranium.

The Company acquired the Redbank Copper Mine in 2005, and had been generating some cashflow from the treatment of high grade oxide stockpiles to produce a high quality concentrate. The tenement package included numerous advanced copper targets.

In December 2007, Redbank secured an exploration joint venture with Glencore International, one of the world's largest commodity suppliers. The Company has also signed an off-take agreement with Glencore for the life of mine, based on marked based spot prices of copper.

Additional information is available at [www.redbankmines.com.au](http://www.redbankmines.com.au)

