



**CASSINI**  
RESOURCES LIMITED  
ABN 50 149 789 337

## ASX Announcement

14 May 2013

### **Positive Result from Ground Electromagnetic (EM) Survey further defines potential large-scale Ni-Cu sulphide target**

Australian exploration company, Cassini Resources Limited (ASX:CZI) (the Company), announces the successful completion of the ground electromagnetic (ground EM) survey on the Pandora Target at its 100% owned West Musgrave Project in Western Australia, further defining a potential large-scale nickel-copper sulphide exploration target.

Key outcomes of the ground EM survey include:

- **Confirmation of airborne EM (VTEM) findings and defining a large conductor coincident with a magnetic high, interpreted to be a mafic intrusion (Pandora Target)**
- **Large scale conductor with dimensions 600m long by 200m wide**
- **Depth of cover and/or weathering to top of conductor is only 70m**
- **Detailed geometry of the ground EM conductor reinforces the conceptual geological model of massive and/or stringer nickel-copper (Ni-Cu) sulphides hosted within a mafic intrusion**

Vortex Geophysics completed a moving loop transient electromagnetic (MLTEM) survey covering the recently identified VTEM anomaly within the West Musgrave Project (see ASX announcement 9<sup>th</sup> April 2013).

The MLTEM survey covered the full extent of the VTEM anomaly with the main goal of the survey being to improve the definition of the conductor, in order to facilitate an effective drill program to test for mineralisation. The ground EM survey successfully achieved this objective.

The survey confirmed a large-scale conductor with a strike length of 600m and a width of 200m. The top of the conductor is only 70m below the surface.

The MLTEM response indicates an intricate geological structure, consistent with the geological model proposed being a massive and stringer sulphide-bearing mafic intrusion.

The MLTEM survey was carried out within the boundaries of the original VTEM anomaly. The areas of highest conductance lie at the southern end of the aerial survey area so further ground EM surveys outside these boundaries may be warranted if drilling results are positive .

The Company intends to drill test the Pandora Target as a matter of priority. The heritage and environmental approval processes are currently underway.

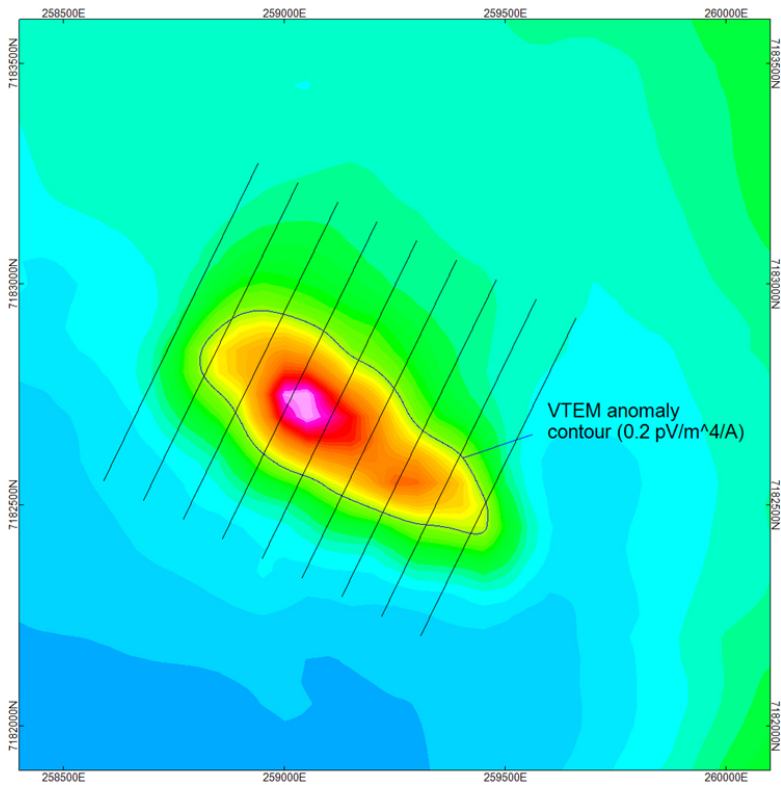


Figure 1 Planned MLTEM survey lines over image of VTEM B-field response (channel 40, 3.521 ms).

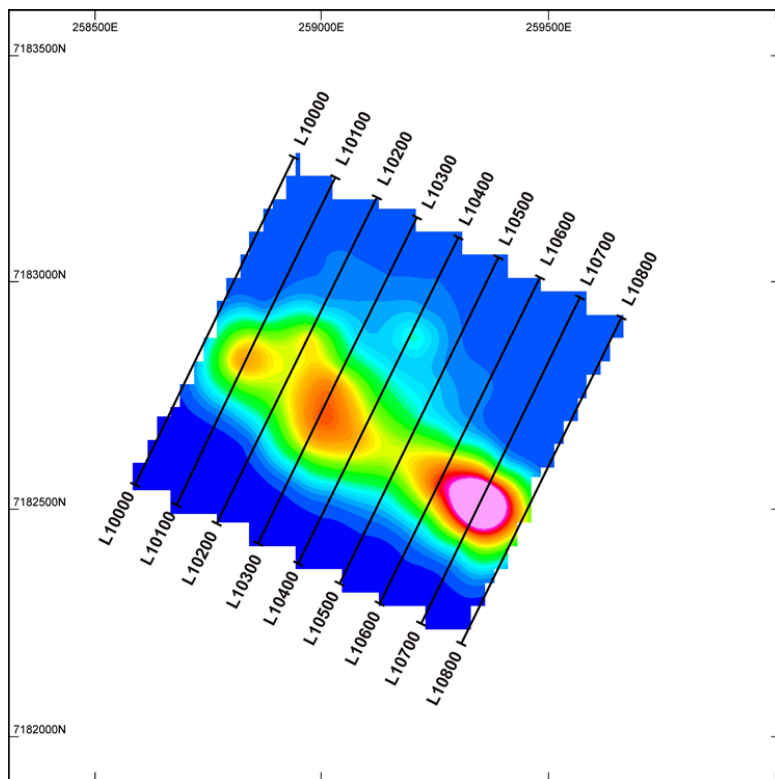


Figure 2 MLTEM survey image. RVR coil (dB/dt) vertical component response at channel 20 (6.093ms).

**Further information:****Richard Bevan**

Managing Director Telephone: +61 8 9322 6569

Email: [richard.bevan@cassiniresources.com.au](mailto:richard.bevan@cassiniresources.com.au)

**About Cassini**

Cassini Resources Limited (ASX: CZI) is an Australian resource exploration company that successfully listed on the ASX in January 2012 with an asset package of prospective tenements and applications in Western Australia. In May 2012, Cassini added three gold exploration projects in Nevada, USA, via Joint Venture agreements with Renaissance Gold Inc. (TSX:REN).

Cassini has a dual focus, with gold exploration projects in Nevada (USA) and nickel, copper and gold prospects in Western Australia.

The Nevada projects represent a near term opportunity for exploration success in one of the world's pre-eminent mining jurisdictions. Nevada has a history of recent multi-million ounce discoveries despite a mining history of over 150 years.

Cassini's priority Western Australian project is located in the highly regarded Musgrave region, with limited previous exploration and potentially high reward.

Cassini aims to explore and progress its key projects, and to identify additional projects that are commercially attractive with the aim to increase shareholder value.

**Competent Persons Statement**

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Mr David Johnson, who is an employee of the company. Mr Johnson is a Member of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2004 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Johnson consents to the inclusion in this report of the matters based on information in the form and context in which it appears.