



CASSINI
RESOURCES LIMITED
ABN 50 149 789 337

ASX Announcement
16 April 2013

Cassini confirms date for Ground EM survey on large-scale Ni-Cu sulphide target at West Musgrave

- **Approvals for ground survey received from Traditional Owners**
- **Contractor appointed and scheduled to commence 1 May 2013**

Exploration company Cassini Resources Ltd (ASX: CZI) (“Cassini” or “the Company”) advises that it has received the required approvals from traditional owners, the Nygaanyatjarra Land Council, and has engaged a contractor to complete a ground electromagnetic (EM) survey over the high priority nickel-copper sulphide target recently identified by airborne EM within its West Musgrave project.

The ground EM survey is scheduled to commence in the first week of May and permitting for this work program is in place. It is expected to take approximately 6 days to complete the survey and results will be known shortly thereafter.

The EM survey will use “Moving Loop Transient Electromagnetics” (MLTEM) which will provide detailed information to enable the Company to design a more efficient and cost-effective drill program to test the target. The MLTEM will provide more detail by:

- Closer line spacing (100m versus 200m) than the airborne VTEM survey;
- Closer station spacing along the survey lines to more accurately define key features of the anomaly, and
- Better discrimination of variations in target conductance (i.e. metal sulphide content) along the 600m strike length of the VTEM anomaly.

All of these aspects lead to a more reliable model of the target conductor, which allows for more accurate targeting of drill holes and to identify parts of the target more likely to have higher thickness and/or concentrations of sulphide minerals.

Cassini is considering extending the MLTEM survey to test magnetic anomalies with similar characteristics to our current priority target at some point in the future. Some of these magnetic anomalies are located in areas where the thickness of conductive cover has compromised the effectiveness of VTEM but may still allow us to detect a strong conductor using a MLTEM survey.

Successful Exploration Licence Application

Cassini also announces that it has lodged an application with the Department of Mines and Petroleum for an additional Exploration Licence (ELA) in the West Musgrave. The ELA (E69/3137) consists of 3 sub- blocks and is in the vicinity of the Nebo-Babel deposits and the Succoth discovery as reported in the media last week.

Cassini looks forward to the successful grant of the tenement in due course.

ENDS

Further information:

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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.

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

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 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.