

## 13 September 2010

The Company Announcements Office Australian Stock Exchange Limited Exchange Centre, Level 6, 20 Bridge Street SYDNEY, NSW 2000

# ZTEM and VTEM surveys completed over Geopacific's Fiji projects

Geopacific has completed helicopter geophysical surveys at its Fiji projects using Geotech Airborne Limited's (Geotech) recently developed ZTEM electromagnetic system and helicopter contracted from McDermott Aviation Pty Ltd.

The work was completed within budget and without undue delays from poor weather conditions, permitting or technical faults and the data from each area is currently being processed and assessed by Geotech as well as Geopacific's Consulting Geophysicist Bill Peters of Southern Geoscience Consultants.

The assessment and interpretation of ZTEM anomalies generated by the surveys will proceed over the next 3-4 weeks. Follow-up field programmes for prioritised anomalies will be undertaken following this work and field inspection and assessment of anomalies defined by VTEM will commence this week.

The recently developed ZTEM system is state-of-the-art technology which is able to map resistivity contrasts associated with structure and alteration that are typically associated with porphyry copper systems and other large mineral deposits to great depths, exceeding 1-2 kilometres. ZTEM has only recently become commercially available in Australia and Geopacific was the first to use ZTEM in Fiji.

Geopacific also conducted Geotech's award winning VTEM system at several Fiji projects where shallower, massive sulphide deposits are targeted.

## **About ZTEM**

The ZTEM or Z-Axis Tipper Electromagnetic system is an innovative airborne EM system which uses the natural or passive earth fields as the source of transmitted energy and does not require a man-made transmitter. The ZTEM survey instrumentation consists of a single vertical-dipole receiver coil that is towed about 75m below a helicopter, at a 100m nominal flight height, and is flown over the survey area in a grid pattern, similar to other regional airborne surveys.

ZTEM data is closely related to resistivity/conductivity mapping of the subsurface. In some applications it has a depth of penetration for exploration of over 2,000 metres and with the low frequency of 22 Hertz has penetration through conductive cover to allow detection of large alteration systems typical of porphyry copper deposits.

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#### **About VTEM**

Geotech's VTEM is a time-domain airborne electromagnetic system which has a high signal to noise ratio and excellent conductance discrimination for high conductance targets. VTEM has been designed to detect and discriminate between moderate to excellent conductors such as skarn or other massive sulphide deposit types using a low base frequency, long pulse width, and derived B-Field.

Additional information on the Company's projects and previous Geopacific announcements are available on Geopacific's website at <a href="https://www.geopacific.com.au">www.geopacific.com.au</a>.

Yours faithfully

Ian J Pringle

(Managing Director)

### **Competent Person**

The review of exploration activities and results contained in this report is based on information compiled by **Dr Ian Pringle**, a Member of the Australasian Institute of Mining and Metallurgy. Dr Pringle is the Managing Director of Geopacific Resources NL and also a Principle of Ian J Pringle & Associates Pty Ltd, a consultancy company in minerals exploration. He has sufficient experience which is relevant to the style of mineralization and types of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the December 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Dr Pringle has consented to the inclusion in this report of the matters based on his information in the form and context in which it appears.

Further Information

For further information please contact lan Pringle, Managing Director, on (02) 86221691 or <a href="mailto:ianp@geopacific.com.au">ianp@geopacific.com.au</a>. An overview of Geopacific Resources NL can be viewed at <a href="https://www.geopacific.com.au">www.geopacific.com.au</a>.

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