



## SOVEREIGN GOLD COMPANY LIMITED

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### Latest News

[www.sovereigngold.com.au](http://www.sovereigngold.com.au)

### Directors / Officers

John Dawkins AO  
Michael Leu  
Peter Meers  
Jacob Rebek

### ASX Symbol: SOC

### Qualifying Statements

The information in this Report that relates to Exploration Information is based on information compiled by Michael Leu who is a member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists.

Mr Leu is a qualified geologist and is a director of Sovereign Gold Company Limited.

Mr Leu has sufficient experience, which is relevant to the style of mineralisation 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 Leu consents to the inclusion in this announcement of the Exploration Information in the form and context in which it appears.

This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.

**References to Mines** refer to historical mines and geographical names, no inference should be made that Sovereign Gold is operating any mines at this stage of its development.

**ASX Release**  
14 October 2014

## Halls Peak Project granted funding in New Frontiers Cooperative Drilling Program

The Halls Peak base and precious metal project within EL 4474 has been awarded grant funds pursuant to the New Frontiers Cooperative Drilling program (**Program**) (a NSW Government program which provides grants to exploration entities to fast-track private exploration drilling programs).

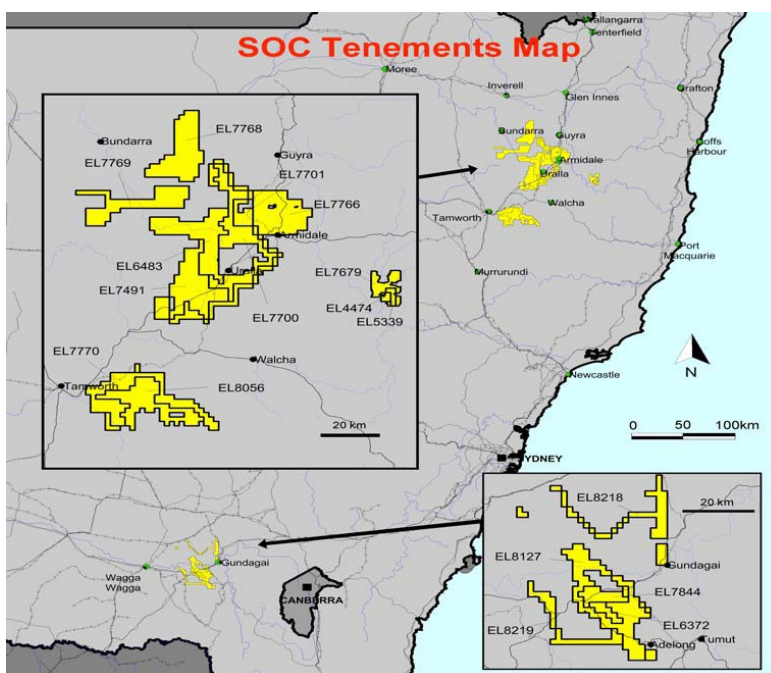
Funding in the amount of \$90,500 has been granted towards drilling in EL 4474.

The Program is a co-funded initiative of the NSW Government which provides 50 per cent of direct drilling costs of approved projects following assessment by an expert advisory panel and includes drilling programs that test innovative, technically sound geological models and new concepts and ideas.

The funding grant is to test the potential for base and precious metal deposits associated with VTEM conductors.

A helicopter VTEM (see "About VTEM" below) and aeromagnetic survey of 1,222 line kms was flown over EL 4474, EL 5339 and EL 7679 and completed in January 2013 (ASX:PMR Release 29/01/2013). The survey distinguished two electrically conductive horizons that extend over an area of at least 14km<sup>2</sup>. These conductors could potentially be interpreted as horizons containing base metals.

Two diamond drill holes are proposed. The first drill hole will test the nature and metal content of the deep, lower conductor detected by the VTEM survey. The second drill hole will determine mineralisation nature, facies and geochemistry variations of the upper electrically conductive horizon.



**For further information please contact:**

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### **About VTEM**

Airborne VTEM (Versatile Time Domain Electromagnetic Surveying) surveys use a helicopter, which suspends a high-resolution cesium magnetometer from its cargo hook. The magnetometer is described as a 26-metre transmission coil or loop, which is suspended beneath the helicopter in a tent shaped array. The inner part of the array contains a smaller diameter receiving coil, which measures the period of time it takes for an induced electro-magnetic field to dissipate through the ground, using the principle that highly conductive rocks, like those containing metals, would hold an electric charge for a longer period.

A current is transmitted through the coil, which energises the ground, creating an electromagnetic field. When the induced current is stopped, sensors on the coil record the time delay for this induced electromagnetic field to disperse. The VTEM system has the ability to generate readings at a rate of 10 samples per second, which are recorded digitally with a GPS log and radar altimeter for accurate navigation.

The VTEM system produces data that are then translated onto maps which shows regions of conductivity in the earth and EM profiles. The proposed flight paths will be orientated to suit the overall geological trend, and line spacing was designed to ensure maximum coverage.

Geotech Airborne describe the VTEM system as follows: "The VTEM or Versatile Time Domain Electro Magnetic system is the most innovative and successful airborne electromagnetic system to be introduced in more than 30 years. The proprietary receiver design using the advantages of modern digital electronics and signal processing delivers exceptionally low-noise levels. Coupled with a high dipole moment transmitter, the result is unparalleled resolution and depth of investigation in precision electromagnetic measurements.

Key features include:

- Superior Exploration Depth – Over 400 metres
- Excellent resistivity discrimination and detection of weak anomalies
- Low Base Frequency (25 or 30 Hz) for Penetration through conductive cover
- High Spatial Resolution – 2 to 3 metres
- Improved Interpretability due to Receiver-Transmitter symmetry
- Virtually impervious to atmospheric activity.

The system was designed to be field configurable to best suit a large variety of different geophysical requirements from deep penetration to optimizing the discrimination within a narrow range of resistivity.