

## **Orientation IP Surveys at Revere Gold Project Detect Discrete Anomalies in Bedrock**

---

### **Summary**

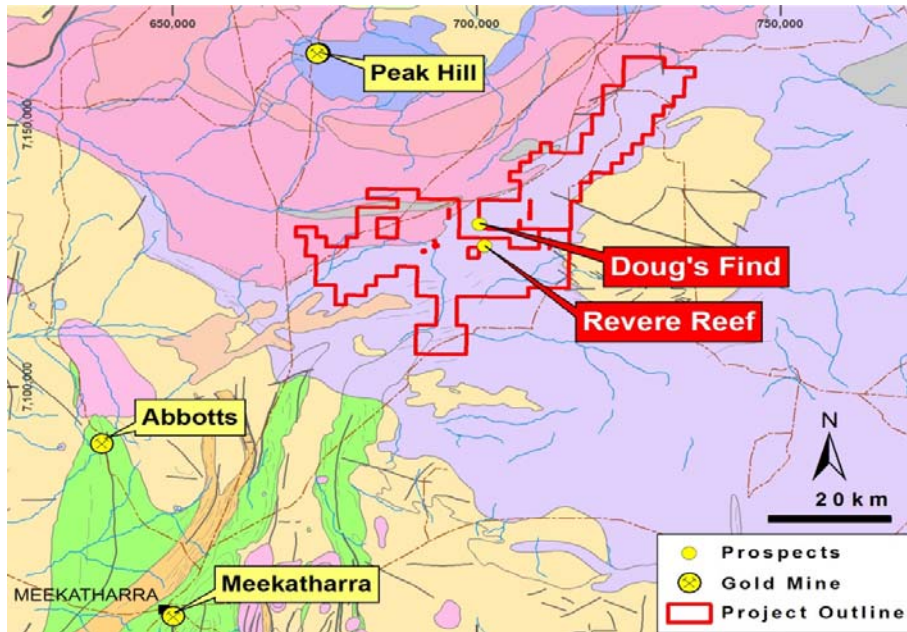
Enterprise Metals Limited (“Enterprise” or “the Company”, **ASX: “ENT”**) is pleased to announce the completion of the 2nd of three orientation Induced Polarisation (“IP”) survey Lines over the Doug’s Find and Revere Reef quartz gold systems, approximately 90km NE of Meekatharra. (Refer Figure 1 overleaf) Prospectors with metal detectors have reportedly recovered hundreds of ounces of gold nuggets from alluvium in these areas in the past, but previous shallow drilling has failed to detect significant gold bearing systems in the top 50 metres of weathered material.

The data for Lines 1 & 2 has now been received and modelled with 2D inversion software, and a number of strong anomalous responses have been detected. The IP survey has also shown that the area is deeply weathered (and presumably leached) to a depth of 50-75 metres, and that most of the historical drilling has been ineffective and has not tested the primary (fresh rock) zone. The surveying of Line 3 and processing of its data is expected to be completed by mid May. (Refer Figure 2 for location of all lines)

**Line 1** was undertaken diagonally from NW to SE over Exploration Licence 51/802, and was designed to test the strike and depth extent of the Doug’s Find gold mineralization. Several conductive zones (“IP Zone 1”) were detected in the NW corner of E51/802 at a depth of approximately 75 metres. The high IP and conductive responses may reflect higher sulphide content, and the presence of sulphides associated with gold mineralisation. Several other zones with weaker IP responses (less sulphide) are considered to be quartz-gold reef targets zones.

**Line 2** was undertaken diagonally from NW to SE over the NE corner of Exploration Licence 51/1079 and traverses the Little Revere +10ppb Au mag-lag anomaly and an associated NE striking magnetic anomaly (Refer Figure 2). The 2D inversion model for this line shows 4 zones of elevated phase response, some with a “high IP” and conductive response, and some with high IP and a resistive response. The high IP and resistive responses are typical of low sulphide systems associated with disseminated gold mineralisation. The high IP and conductive response could reflect higher sulphide content and may be associated with massive sulphides.

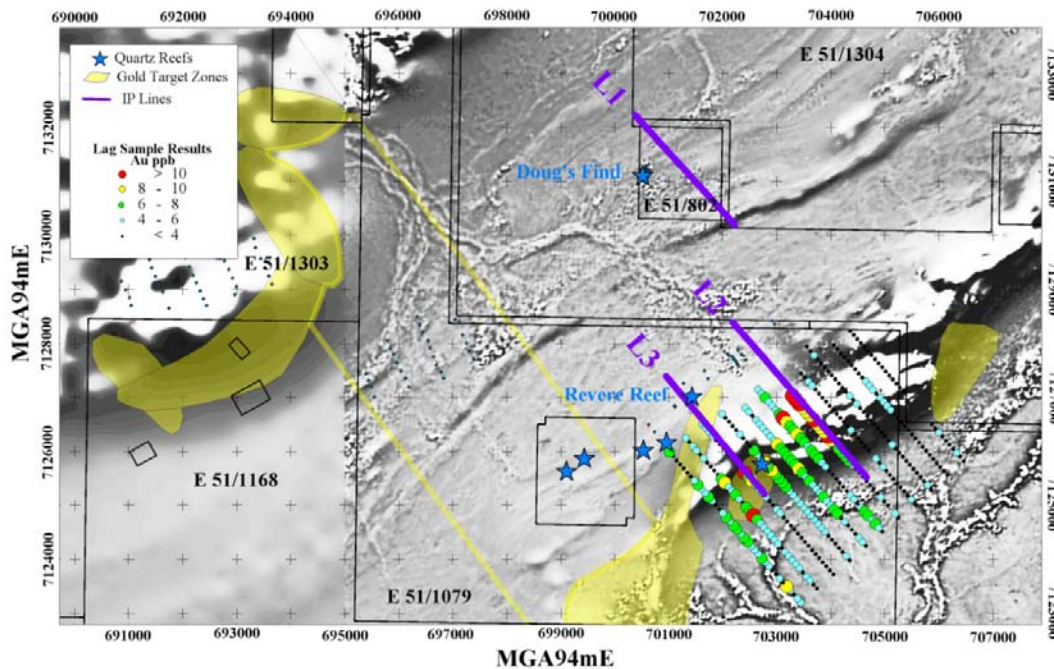
Upon completion and assessment of data from Line 3, the Company will be lodging a Program of Work (“POW”) with the Department of Minerals and Petroleum to undertake reverse circulation (“RC”) drill testing of these exciting new targets.



**Figure 1. Revere Project Location Plan**

**Work Completed**

In April 2009 Zonge Engineering commenced a pole-dipole (50 metre/100 metre dipoles) orientation IP survey at the Revere Project area. The initial results from Line 1 of this survey were reported in the Company's Quarterly Activities report to the ASX dated 29 April 2009.



**Figure 2. 2009 Pole-Dipole Induced Polarisation Survey Location Plan**

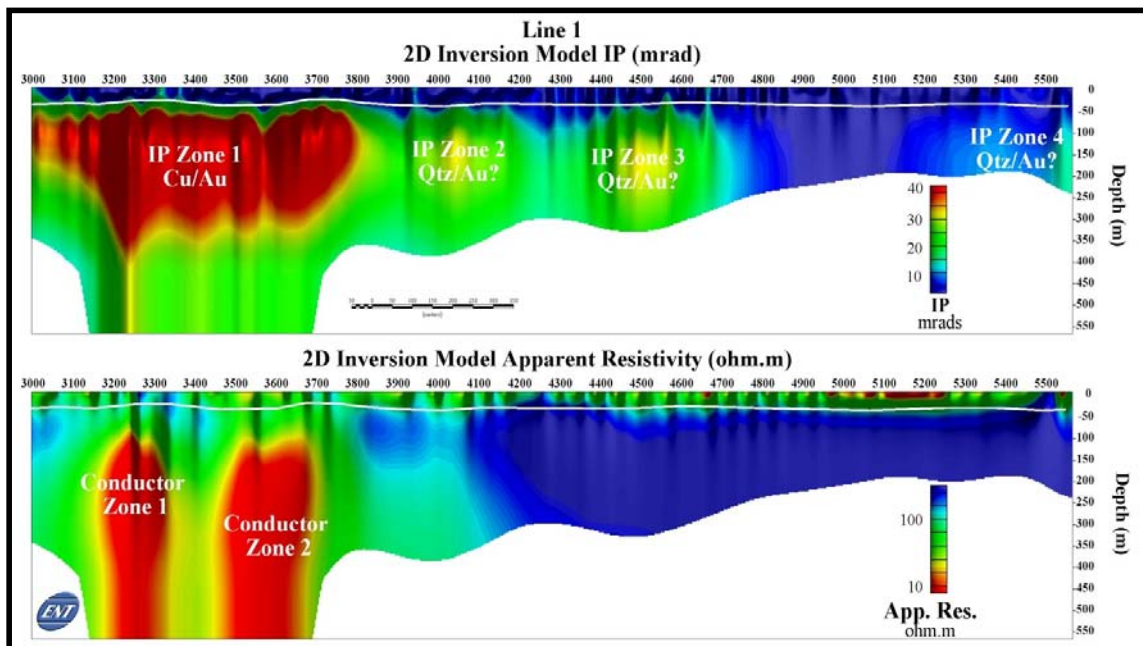
### Line 1

Line 1 cuts diagonally across Exploration Licence 51/802 from NW to SE. The 2D inversion model for Line 1 is shown in Figure 3 below. The 2D model has been weighted to produce a vertical biased solution.

The modelling shows the upper 50m is weathered (the white line in Figure 3). This weathered layer is slightly conductive and has a low phase (IP) response (probably leached). The IP inversions show 4 zones of elevated phase response. These zones can be categorised into 2 types based on associated resistivity responses.

The first type is high IP associated with a conductive response – IP Zone 1 with Conductors 1 and 2. The second type is high IP associated with a resistive response – IP zones 2, 3 and 4. IP Zone 1 is located in the NW corner of E51/802 and lies between stations 3000 and 3800 at a depth of approximately 75m. The response observed is complex and is mostly sourced by multiple zones. The IP Zone 1 response encompasses two conductive zones (centred about station 3250 and 3600). The high IP and conductive responses could reflect higher sulphide content (Cu/Au mineralisation).

IP Zones 2, 3 and 4 are associated with resistive zones. Zone 2 is possible the NE strike extension the Doug’s Find Quartz Au Reef. These zones have a weaker IP response (less sulphide) and are considered to be Au reef targets zones.



**Figure 3. Line 1 - 2D Modelled Inversion**

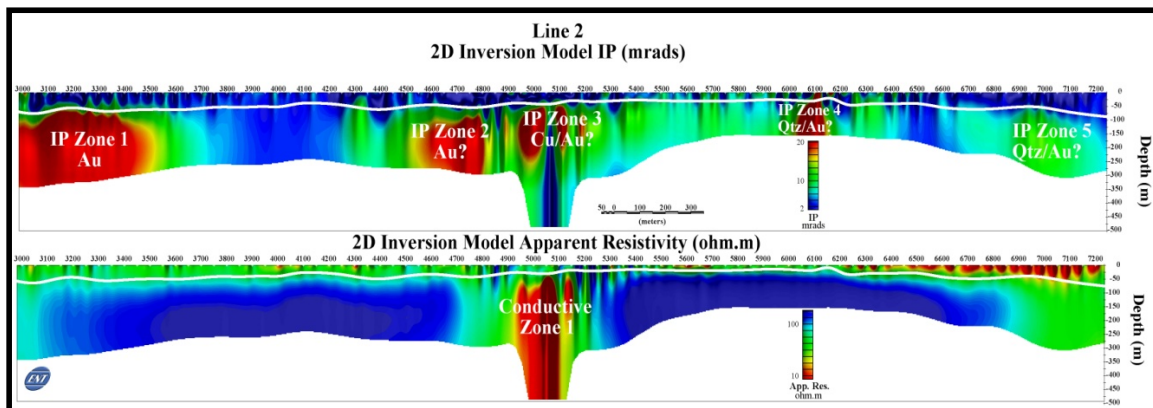
## Line 2

Line 2 cuts diagonally across the north-east corner of Exploration Licence 51/1079 from NW to SE. (Refer Figure 2). The 2D inversion model for Line 2 is shown in Figure 4. The 2D model has been weighted to produce a vertical biased solution. The modelling shows the upper 50-75m is weathered (the white line in Figure 4). This weathered layer is slightly conductive and has a low phase (IP) response (probably leached). The IP inversions show 4 zones of elevated phase response. These zones can be categorised into 2 types based on associated resistivity responses as follows:

1. high IP associated with a conductive response – IP Zone 3 with Conductor Zone 1.
2. high IP associated with a resistive response – IP Zones 1, 2, 4 and 5.

IP Zone 1 is located on the NW end of the line and lies between stations 3000 and 3400 at a depth of approximately 75m. The IP response has not been closed off to the NW and most likely extends past station 3000. The response observed is complex and is mostly sourced by multiple bodies. IP Zone 1 response is associated with resistive bedrock. This type of response is similar for IP Zones 2, 4 and 5. The higher IP and resistive responses are typical of low sulphide systems (disseminated Au mineralisation).

IP Zone 3 is associated with conductive Zone 1. The observed response is complex and is most likely to have multiple sources. The most conductive response is at station 5050, which appears to have an IP halo. The high IP and conductive response could reflect higher sulphide content or massive sulphides.



**Figure 4. Line 2 - 2D Modelled Inversion**



**Background To Revere Gold Project (100% interest)**

Exploration Licences 51/802 and 51/1079 of the Revere project are located approximately 90 km northeast of Meekatharra in Western Australia and cover Palaeoproterozoic rocks affected by the Capricorn Orogen, predominantly located within the Yerrida Basin. The primary target sought by the Company is one or more large mesothermal-style gold stockwork systems.

Modern prospectors have recovered considerable quantities of gold nuggets in the area, particularly around Ruby Well, Don Well, Goodins, Doug's Find and Little Revere. There is little outcrop in the project area, and historically the nugget source at each of these localities was thought to relate to the weathering of thin quartz veins hosted by the Narracoota and Doolgunna Formations. Limited historic shallow drilling and costeaning suggested that these quartz veins had little volume and poor depth and strike continuity.

During 2007/2008, the Company flew a high resolution magnetic and radiometric survey, undertook extensive mag-lag sampling and compiled all relevant historical exploration data into a digital database. Subsequent structural and geochemical studies using this data identified potential mineralised structural corridors and made recommendations for orientation Induced Polarization surveys to test these corridors. Neither the Company nor competitors have previously utilised IP in this area.

The targeted quartz veins were expected to have high resistivity and chargeability responses, with the high resistivity caused by quartz and the high chargeability caused by sulphides associated with gold mineralisation. The results from the first two lines of IP suggest that it is going to be an effective tool to target reverse circulation drilling of the primary sulphidic zones.



**Dermot Ryan**  
**Managing Director**

**Contact:**

Telephone: 08 9436 9200 Facsimile: 08 9436 9299 Email: [admin@enterprisemetals.com.au](mailto:admin@enterprisemetals.com.au)

*The information in this announcement that relates to Geophysical Exploration Results has been compiled by Mr Bill Robertson, who is a Member of the Australian Institute of Geoscientists, and a full time employee of geophysical consultancy Value Adding resources Pty Ltd. Mr Robertson has sufficient relevant experience in the geophysical techniques being reported and styles of mineralisation and types of deposit under consideration, and in the activity he is undertaking, to qualify as a Competent Person as defined in the 2004 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (the JORC Code), and consents to the inclusion of the information in the form and context in which it appears.*