

## First Conductors Identified at Rockford Project, Fraser Range

- Multiple conductors identified at Area D associated with discrete gravity high
- High conductivities of 9,000-17,000S associated with three large relatively shallow bedrock conductors

Legend Mining Limited (“Legend”) is pleased to announcement that recent moving loop electromagnetic (MLEM) surveying at Area D has identified five conductors of varying character, size and depth at its Rockford Project in the Fraser Range district of Western Australia, see Figure 1.

Legend Managing Director Mark Wilson said, “It is very satisfying to have identified these conductors using new and innovative EM techniques. We have only been on the ground at Rockford for 11 weeks and it is still early days. Our first half 2016 field work will now include RC drill testing of these conductors along with regional aircore and further EM work, details of which will be released, once final assessment of the 2015 field work is completed early in the new year.”

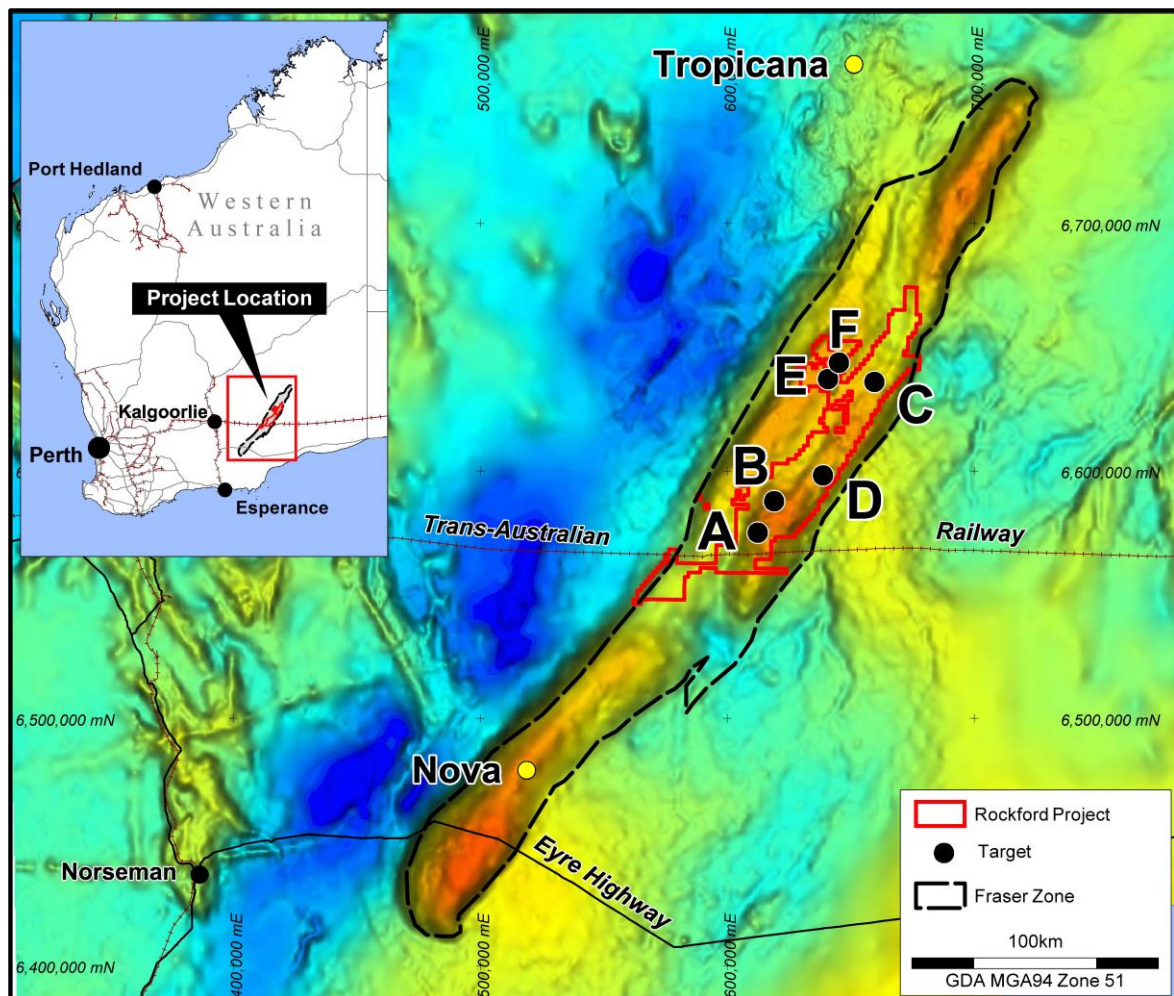


Figure 1: Rockford Project Target Areas on Regional Gravity

## Technical Discussion

MLEM surveying recommenced at Rockford on 21 November following a 13 day delay due to wet weather. On return, the two EM crews moved to newly prioritised targets, namely Area D and Area E (ongoing), which were selected based on their gravity/aeromagnetic signatures and structural setting, see Figure 1.

### Area D

Area D has a discrete 1.5km x 1km gravity high (4mgal) with an associated magnetic signature suggestive of a structural fold closure or intrusive feature. A total of 11 high powered (~200amp) MLEM lines spaced 150/300m apart were completed, identifying five highly to moderate conductive bedrock conductors at relatively shallow depth. Figure 2 shows the location of the five conductors with respect to the discrete gravity high, with a summary provided in Table 1 below.

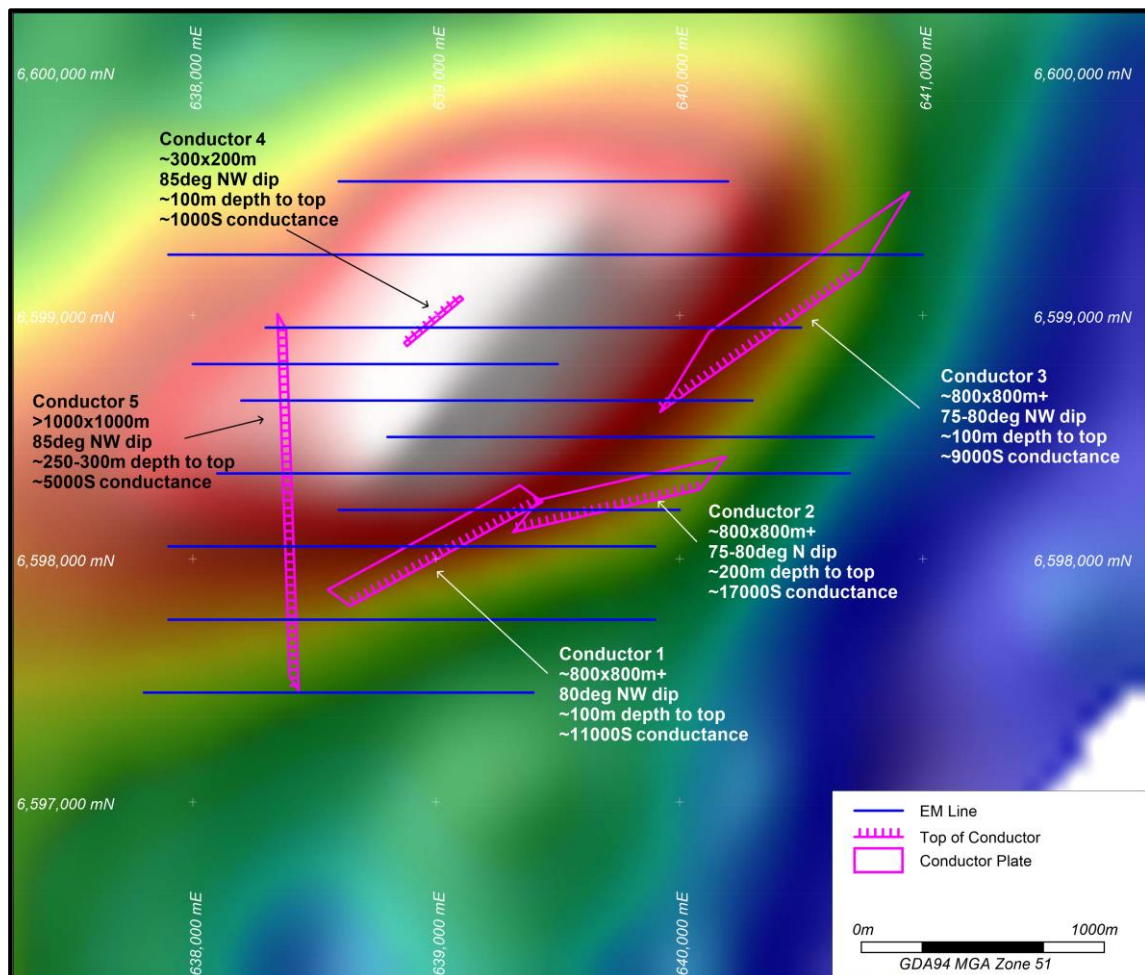


Figure 2: Area D Conductor Plates on Residual Gravity Image

| Table 1: Area D Conductor Description |             |                  |              |                   |
|---------------------------------------|-------------|------------------|--------------|-------------------|
| Conductor                             | Conductance | Dimensions       | Depth to Top | Plate Orientation |
| 1                                     | ~11,000S    | 800m x 800m+     | ~100m        | 80 deg. NW dip    |
| 2                                     | ~17,000S    | 800m x 800m+     | ~200m        | 75-80 deg. N dip  |
| 3                                     | ~9,000S     | 800m x 800m+     | ~100m        | 75-80 deg. NW dip |
| 4                                     | ~1,000S     | 300m x 200m      | ~100m        | 85 deg. NW dip    |
| 5                                     | ~5,000S     | +1,000m x 1,000m | ~250-300m    | 85 deg. NW dip    |

Conductors 1, 2 and 3 all have very high conductance levels which required infill lines utilising lower base frequencies (originally 1 Hz down to 0.5Hz & 0.125Hz) to better define the conductors and allow accurate modelling. These conductors represent highly conductive bedrock sources and are situated on the SE margin of the gravity high and appear related to local aeromagnetic units.

Maxwell modelling has characterised these three conductors as being of large areal size/extent (>800x800m), striking ENE-WSW, having steep N/NW dips (75-80°) and an estimated depth to top of source of 100-200m. Conductance levels are very high at ~9,000-17,000S and consistent with the signature of a well-developed sulphidic/graphitic body. Decay curve analysis indicates that these highly conductive EM sources have a well-defined exponential decay fit in late channel data (CH44+, >1,100msec range), with a very high time constant (tau) estimate of >800msec.

Conductor 4 represents a moderate strength, localised (~300x200m) conductor located within the central zone of the gravity high. Moderate conductance levels of ~1,000S were apparent from modelling, with the associated source having an estimated depth to top of source of 100m, orientated NE-SW and dipping steeply NW at ~85°.

Conductor 5 is a strong and deeper level bedrock conductor defined along the western margin of the gravity high. Further modelling of this target zone is ongoing, however the associated conductive source/s are situated at >250m depth to top and do not demonstrate any clear correlation with the gravity and aeromagnetic data.

The highly conductive character of three of these conductors is considered encouraging, however RC/diamond drill testing is required to determine the source of the conductors.

### **Future Programmes**

- MLEM surveying will continue at Areas A, E and F up to the Christmas break (20/12/2015).
- MLEM surveying will recommence in 2016 to complete any untested targets from the 2015 programme.
- Planning for an RC/diamond drilling programme to test the conductors at Area D has commenced. Pending all required statutory approvals and favourable weather conditions, a start date in February/March is envisaged.
- As well as utilising MLEM surveying, Legend's exploration strategy for the Rockford Project also involves regional and target focussed aircore drilling. This drilling will provide valuable geological and geochemical information and assist in the prioritisation of areas for further work. A +10,000m aircore programme is planned to commence in early March, details of which will be announced once finalised.

## **MLEM Survey Details**

Outer-Rim Exploration Services Pty Ltd were commissioned by Legend in late September to undertake high powered (~200amp) moving loop electromagnetic surveying over the Rockford Project. This surveying is part of a research and development programme designed to develop and advance current EM methods, aimed at identifying conductors associated with massive sulphide (i.e. Nova-Bollinger type) beneath extensive transported/conductive cover.

### **Survey Specifications:**

- Loop Size: 200m x 200m, single turn
- Line/Station Spacing: 300m spaced lines with 100m stations
- Transmitter: ORE HPTX (190-200 amps)
- Receiver: EMIT SMARTem24
- Sensor: EMIT Fluxgate 3 component B field sensor
- Time base/frequency: 0.125 - 1 Hz (250-2,000msec time base), ~0.475msec ramp

### **Competent Person Statement**

*The information in this report that relates to Exploration Results is based on information compiled by Mr Derek Waterfield, a Member of the Australian Institute of Geoscientists and a full time employee of Legend Mining Limited. Mr Waterfield has sufficient experience that is relevant to the styles of mineralisation and types of deposit under consideration, and to the activity being undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves” (JORC Code). Mr Waterfield consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

Visit [www.legendmining.com.au](http://www.legendmining.com.au) for further information and announcements.

### **For more information:**

Mr Mark Wilson  
Managing Director  
Ph: (08) 9212 0600

Mr Derek Waterfield  
Executive Director - Technical  
Ph: (08) 9212 0600

## Appendix 1: Legend Mining Limited - Fraser Range Project JORC Code Edition 2012: Table 1

### Section 1: Sampling Techniques and Data

| Criteria  | Commentary  |
|---|---|
| <b><i>Sampling techniques</i></b>                                     | <ul style="list-style-type: none"> <li>• Not applicable, as no geochemical sampling or drilling was undertaken or referred to in the report.</li> </ul> |
| <b><i>Drilling techniques</i></b>                                     |   |
| <b><i>Drill sample recovery</i></b>                                   |   |
| <b><i>Logging</i></b>   |   |
| <b><i>Sub-sampling techniques and sample preparation</i></b>          |   |
| <b><i>Quality of assay data and laboratory tests</i></b>              |   |
| <b><i>Verification of sampling and assaying</i></b>                   |   |
| <b><i>Location of data points</i></b>                                 |   |
| <b><i>Data spacing and distribution</i></b>                           |   |
| <b><i>Orientation of data in relation to geological structure</i></b> |   |
| <b><i>Sample security</i></b>   |   |
| <b><i>Audits or reviews</i></b>                                       |   |

### Section 2: Reporting of Exploration Results

| Criteria   | Commentary  |
|--|---|
| <b><i>Mineral tenement and land tenure status</i></b>                          | <ul style="list-style-type: none"> <li>• The Rockford Project comprises eight granted tenements; E28/2342 (100% Legend), E28/2188-2192 (70% Legend, 30% Rockford Minerals Pty Ltd JV), E28/1718 &amp; E28/1727 (70% Legend, 30% Ponton Minerals Pty Ltd JV).</li> <li>• The Project is located 280km east of Kalgoorlie on vacant crown land.</li> <li>• There are no Native Title Claims over tenements E28/2342, E28/2188-2192. Tenements E28/1718 &amp; E28/1727 are covered 90% and 20% respectively by the Ngadju Native Title Claim.</li> </ul> |
| <b><i>Exploration done by other parties</i></b>                                | <ul style="list-style-type: none"> <li>• Not applicable, not referred to.</li> </ul>  |
| <b><i>Geology</i></b>  | <ul style="list-style-type: none"> <li>• The primary target is Nova style nickel-copper mineralisation hosted in high grade mafic granulites within the Fraser Complex.</li> <li>• A secondary target is Tropicana style structurally controlled gold mineralisation.</li> </ul>  |
| <b><i>Drill hole Information</i></b>   | <ul style="list-style-type: none"> <li>• Not applicable, not referred to.</li> </ul>  |
| <b><i>Data aggregation methods</i></b>   | <ul style="list-style-type: none"> <li>• Not applicable, not referred to.</li> </ul>  |
| <b><i>Relationship between mineralisation widths and intercept lengths</i></b> | <ul style="list-style-type: none"> <li>• Not applicable, not referred to.</li> </ul>  |
| <b><i>Diagrams</i></b>   | <ul style="list-style-type: none"> <li>• Project location and ground EM anomaly maps have been included in the body of the report.</li> </ul>   |
| <b><i>Balanced reporting</i></b>   | <ul style="list-style-type: none"> <li>• Not applicable, not referred to.</li> </ul>  |
| <b><i>Other substantive exploration data</i></b>                               | <ul style="list-style-type: none"> <li>• Outer-Rim Exploration Services Pty Ltd have undertaken high powered moving loop electromagnetic surveying over the Rockford Project.</li> <li>• Loop Size: 200m x 200m, single turn</li> <li>• Line/Station Spacing: 300m spaced lines with 100m stations</li> <li>• Transmitter: ORE HPTX (190-200 amps)</li> <li>• Receiver: EMIT SMARTem24</li> <li>• Sensor: EMIT Fluxgate 3 component B field sensor</li> <li>• Time base/frequency: 0.125 – 1 Hz (250-2,000msec time base), ~0.475msec ramp</li> </ul> |
| <b><i>Further work</i></b>   | <ul style="list-style-type: none"> <li>• RC/diamond drilling testing of the conductors at Area D is planned.</li> </ul>   |