



3,700m RC Drilling Program Commences Fifield NSW **Focus on discovery opportunities in 7 locations for gold, silver and copper**

Rimfire Pacific Mining NL (ASX:RIM) ("Rimfire" or "The Company") has commenced RC drilling at Fifield, NSW, on a range of high quality geochemical and geophysical regional targets within a 6km radius of the Sorpresa gold and silver resource location. The work programs provide the potential for significant discovery upside in the identified targets for gold silver and copper. See location and program details in Figure 2 and Table 2.

Features of the RC Drilling Program being deployed

- ❑ **Discovery RC drilling has commenced and will involve 7 locations, for a total of 3,700m**
 - **Drilling includes reconnaissance traverses and direct testing of geophysical targets**
- ❑ **Two high quality "Bullseye" Geophysical targets to be drilled for 1,000m**
 - **Carlisle (target 2) magnetic target for Gold-Copper "Tritton Style mineralisation"**
 - **Sorpresa South IP/gravity "pipe like" chargeability target for Gold-Silver sulphide potential**
- ❑ **Eclipse Trend reconnaissance RC drilling for Gold-Copper potential at 3 locations**
 - **2,000m of RC drilling to examine known geochemistry along 2.2km strike**
- ❑ **East of Sorpresa - 200m step out drill hole from the known Sorpresa position**
 - **Looking for trends in the geology and influence on the Sorpresa Au/Ag mineralisation plane**
 - **Potential for repeat structure and mineralisation in this location**
- ❑ **An additional 420m of drilling at Yoes following the gold and copper trend**
 - **The location is 700m north of the most recent drilling conducted in March 2015**
- ❑ **The *New Frontiers* drilling grant will rebate approx. \$75,000 of the costs of the new program**
- ❑ **Assay results are due for reporting shortly, from previous completed RC drilling**
 - **This covers the Yoes, Sorpresa and Kars areas**

CEO and Managing Director, John Kaminsky said:

"The new RC drilling has commenced and the program objectives are clear. We are going to test some very exciting targets both regionally and as extensional concepts to the Sorpresa mineralisation. We are looking for discovery growth, and the program diversity we have created has the capacity for a very positive impact.

"The Company strategy continues to focus on building its regional discovery inventory within a 6km radius of Sorpresa over the next 12 months. Ranked priorities have been assessed within the geochemical and geophysical targets. These appear exciting and are now undergoing preliminary testing through this program. The program design will remain adaptive to the conditions and performance of the holes, so remains somewhat flexible in the final selection process of total metres delivered, as observations unfold.

"Highlights in the drilling include examination of the geophysics at Carlisle (magnetics) and a pipe like IP/Gravity feature about 700m south of the known extent of Sorpresa. These two targets, although high risk, show all the attributes of high quality anomalies in an excellent context. The possibility exists for the drilling on these targets in particular, to have an important outcome for the Company.

"The recent drilling already completed at Yoes will have assay results shortly. We are encouraged by the copper observations at this location (fpXRF) and have additional drilling planned in the new campaign 700m to

the north. Although still at an early stage, the emergence of a copper signature is an exciting development, and the company is treating this very seriously.

“About 3.5km to the east of Sorpresa, we will also gain insights into the 2.2km long Eclipse Trend gold-base metal area, with up to 2000m of RC drilling on 3 target locations. We are looking to understand the observed mineralisation zonation across the area that goes from Sorpresa to Eclipse then to Yoes areas occurring over a 6km distance.

“The area bounded between Eclipse and Yoes is an approximate 4km² gold anomaly in the surface, as defined by auger drilling, rockchips and soil geochemistry. The RC drilling conducted at Yoes in March and now commencing at Eclipse will start to provide information on the large scale system that appears to be operating. A range of program initiatives can be expected over an extended period to probe the surface expression and any underlying geophysics.

“Having established the key milestone of the Sorpresa gold and silver maiden resource (an approximate 250,000 ounces of gold equivalent, made up of 50:50 gold and silver), the Company believes there is upside potential for further gold discoveries as the ongoing assessment continues at Sorpresa. The drilling to the South and East of Sorpresa will be testing the potential in these areas.

“The Company remains active pursuing work programs that maintain the Company strategy to enhance and evaluate the Sorpresa resource whilst continuing active regional discovery.

“We expect to have a solid newsflow over the coming months, reporting progress on the drilling campaign, and receiving further assay results as we continue to build the prospective nature of Sorpresa and the regional prospects at Fifield.

“The Company will draw a further \$75,000 for this drilling campaign NSW Department of Trade & Investment as a Co-operative Drilling Grant, under the “New Frontiers” program initiative. The program is a “dollar for dollar” matching program, where the Company undertakes the equivalent drilling expenditure to the grant value received.

“The Board believes that the Fifield district has the potential to host multi-million ounces gold equivalent outcomes and the strategy of pursuing a prospect portfolio approach reflects this, enabling an appropriate balance between higher risk discovery opportunities and the development path assessment at Sorpresa.”

RC Drilling commences on Carlisle Magnetic feature – first target to be drilled in new campaign

Reconnaissance RC drilling was conducted in late December 2014 at Carlisle Target (1) with results reported in February 2015 and demonstrated gold intersections at that location, including 7m @1.47g/t Au.

A second target (2) at Carlisle consists of a diffuse bullseye magnetic high anomaly (Figure 1) under cover, with peripheral silica, magnetite, hematite alteration, pyritisation & trace native Cu. It is considered a prospective **Tritton style Cu-Au target**.

Encouraging Copper results in previously noted fpXRF upto 854ppm Cu add weight to this view in the company’s opinion.

Rimfire has now commenced RC drilling on **Carlisle – Target (2)**. The program will comprise shallow reconnaissance RC drilling, approx. 600m (6 x 100m holes).

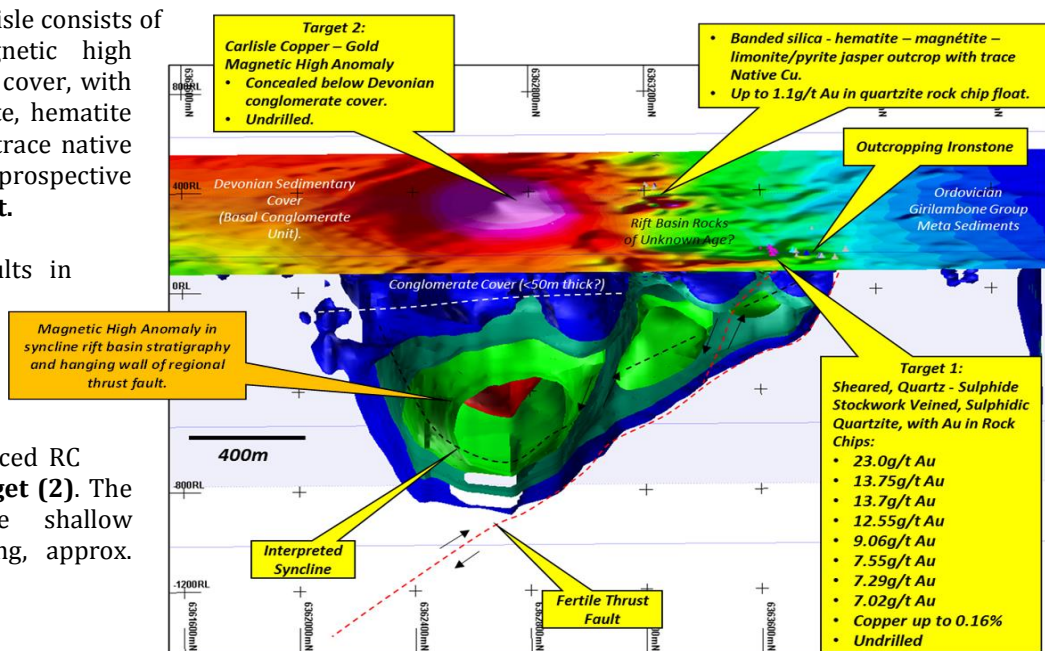


Figure 1: 3D Magnetic Anomaly Model at Carlisle Target 2 showing proximal high grade gold rock chip

Competent Persons Declarations

The information in the report to which this statement is attached that relates to Exploration and Resource Results is based on information reviewed and compiled by Colin Plumridge who is deemed to be a Competent Person and is a Member of The Australasian Institute of Mining and Metallurgy.

Mr Plumridge has over 45 years' experience in the mineral and mining industry. Mr Plumridge is employed by Plumridge & Associates Pty. Ltd. and is a consulting geologist to the Company. Colin Plumridge has sufficient experience that is relevant to the style of mineralisation and type 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'. Colin Plumridge has previously consented to the inclusion of the matters based on the information in the form and context in which it appears.

Historic information and previously published material under 2004 JORC standard that is referenced in this report:

Historic information provided is extracted from the reports entitled and listed in the table below created on the dates shown and is available to view additionally on the Company Website at hyperlink: [ASX Announcements](#). The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements. The relevant JORC table to those results is published with each report.

In addition, the Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements which operated under the 2004 JORC reporting requirements. Mr Colin Plumridge as a Competent Person consented to the inclusion in the original reports in the form and context in which each appeared, please refer to the Competent Persons declaration above for additional information.

Table 1 Dates and Hyperlinks for previously referred to results in this report

ASX November 9th 2007 Golden Green Gold Prospect Returns Encouraging Assay
ASX July 25th 2008 Quarterly Report For the period April 1st to June 30th 2008
ASX March 30th 2012 Coherent Gold geochemistry at Yoes Lookout Confirmed – Fifield NSW
ASX September 17th 2012 First Gold Sections Created at Sorpresa Project, Fifield NSW
ASX June 13 th 2012 High Grade Gold Intersection Sorpresa Project – Fifield NSW
ASX July 26 th 2012 Successful Intersections at Sorpresa Gold Project
ASX October 10 th 2012 Highest Gold and Silver Grades seen to date at Sorpresa Project
ASX December 18 th 2012 Sorpresa Project Produces More Encouraging Results
ASX March 27 th 2013 Additional Assays at Sorpresa Gold Project
ASX June 13 th 2013 Further Positive RC Drilling Results at Sorpresa Project
ASX July 17 th 2013 Diamond Drilling Reveals Bonanza Grade of 1m @ 114g/t Au
ASX October 21 st 2013 Results Confirm Extensions of Gold and Silver at Sorpresa Project
ASX December 20 th 2013 High Grade Silver extensions continue at Roadside
ASX February 14 th 2014 Gold Intersections Confirm New Intersections at Sorpresa
ASX May 16 th May 2014 4,000m RC Drilling Program at Sorpresa Project - Regional Intersection 2m @ 9.11g/t Gold
ASX May 30 th May 2014 Drilling Update and 3D Exploration Model for Sorpresa Project - 2m @ 7.49g/t Gold intersected
ASX July 23 rd 2014 Encouraging Regional Rock Chip Results up to 13.7g/t Gold, Fifield NSW
ASX August 18 th 2014 New High Grade Rock Chip Results up to 23g/t Au at Fifield NSW
ASX August 26 th 2014 Sorpresa Gold and Silver Mineralisation Extended at Fifield, NSW
ASX November 28 th 2014 Encouraging Gold Results Intersected in New Shallow Oxide Position at Sorpresa
ASX December 8 th 2014 High Grades Intersected in Sorpresa Resource Definition Drilling
ASX December 23 rd 2014 Sorpresa Maiden Resource Fifield NSW - 6.4Mt for 125kOz of gold and 7.9Moz of silver
ASX January 30 th 2015 December Quarter Exploration Report
ASX February 20 th 2015 Sorpresa RC Drilling Assays Finalised, New RC Drilling underway to extend mineralisation
ASX February 23 rd 2015 Gold Intersections confirmed from Surface at Carlisle, Fifield NSW

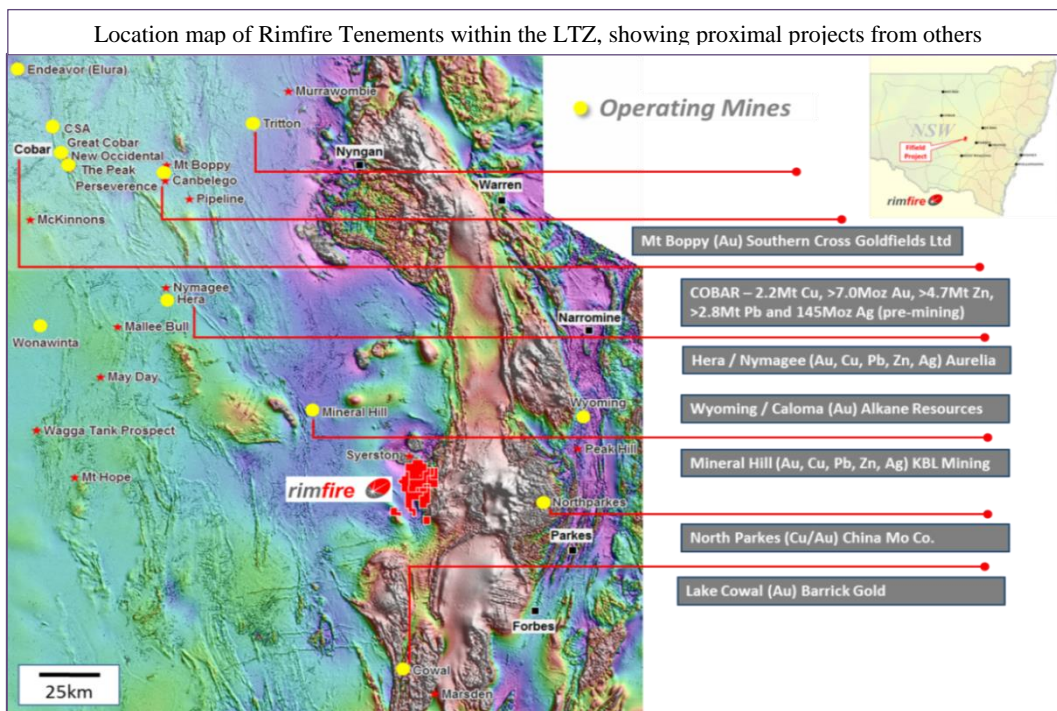
ASX 23rd March 2015 [Encouraging Results including 2m @ 10.09g/t Gold Intersected at Sorpresa](#)

ASX 13th April 2015 [Skarn style mineralisation intersected with Copper Anomalism at Yoes Lookout Prospect](#)

ABOUT RIMFIRE PACIFIC MINING

Rimfire Pacific Mining is an ASX listed (code: RIM) resources exploration company that has its major emphasis focused at Fifield in central NSW, located within the Lachlan Transverse Zone (LTZ). Rimfire interprets a rift basin setting at Fifield, Back Arc to the World Class Macquarie Arc, and traversed by the crustal scale Lachlan Transverse Zone (LTZ) which is host to multiple styles of significant mineralisation, with combined multimillion ounce gold equivalent potential.

In 2010 the Company delivered a greenfields gold and silver discovery, named "Sorpresa", in the Fifield district. Subsequent exploration has provided evidence that the "Wider Sorpresa Area" is now considered a significant gold mineralised system of some promise with potential for copper. The gold is predominantly native gold.



The current main Sorpresa Strike line containing gold and silver mineralisation is approximately 1.5km in length and is at various stages of further discovery extension drilling. The Company announced a JORC 2012 Compliant Inferred & Indicated Maiden resource for Sorpresa in December 2014, which comprises 6.4Mt for 7.9Moz of silver and 125kOz of gold (at 0.5g/t Au & 25g/t Ag cutoff).

The Company has now established multiple project areas of importance involving hard rock Gold (Au), Silver (Ag), Platinum (Pt) and Base Metals within a 6km radius of the Sorpresa discovery covering an extensive prospective 35km² area at Fifield, which is part of the contiguous 313km² tenement position held. Prioritized current prospects and targets are being systematically assessed with more than **25 targets** revealed to date.

The latest presentations on the Company are at hyperlinks:

[Rimfire Exploration Presentation - AGM 14 November 2014](#)

[Exploration Industry Presentation and Rimfire Benchmarking - AGM 14 November 2014](#)

A **3D Exploration Model**, as at May 2014, depicting gold mineralisation at Sorpresa with a description of the RC drill program goals at that time is available as a [video by hyperlink: Click Here](#).

JOHN KAMINSKY
CEO and Managing Director

Figure 2: Fifield Prospect and Concept Map with location of the Sorpresa Resource and RC Drilling underway or planned in May 2015

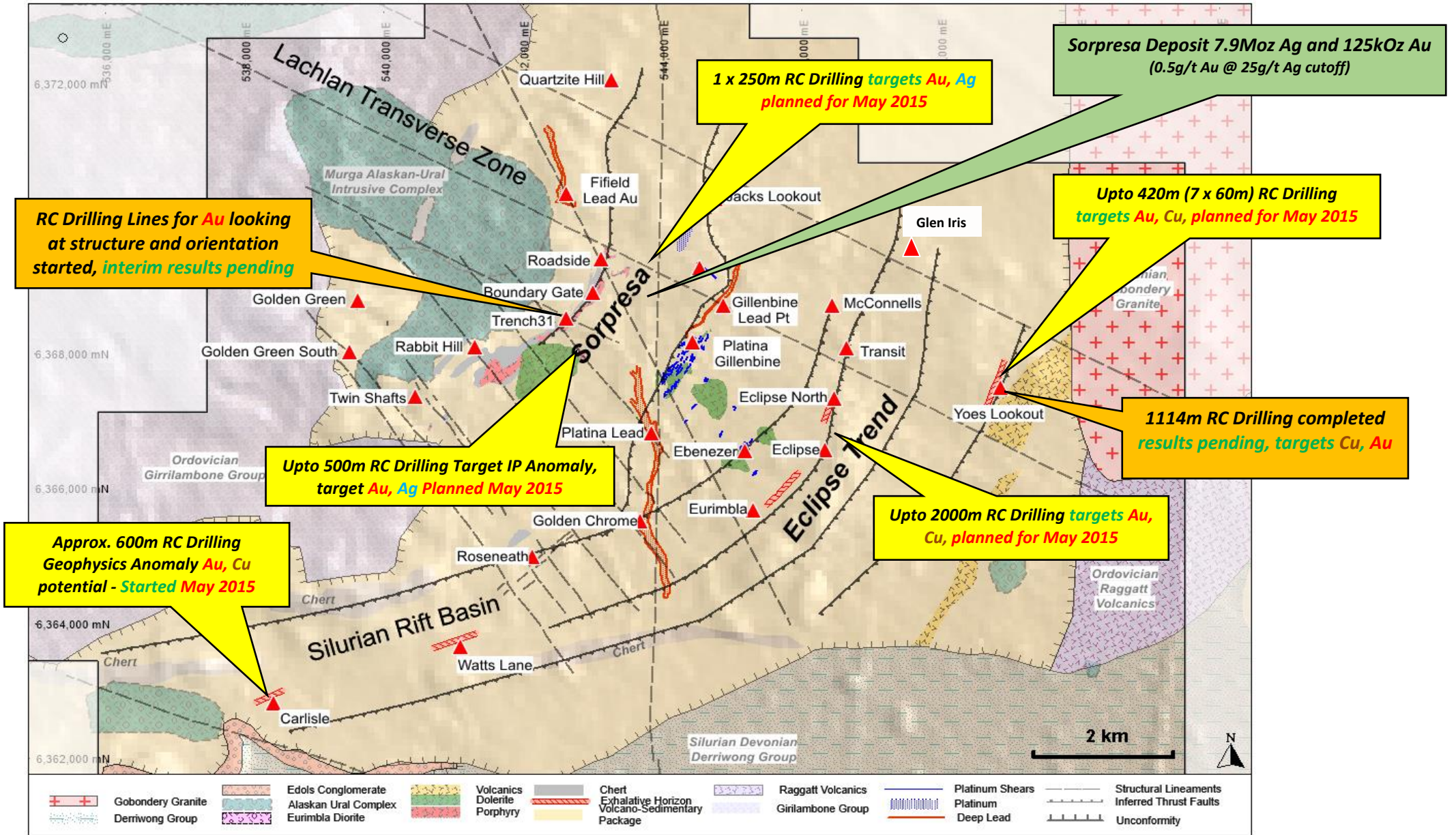


Table 2: RC Drilling planned in May/June 2015 with description of Target type and signature*

Area and Target Description	Holes	EOH Depth (m)	Total Metres (m)	Geological Signature	Geochemical Signature	Geophysical Signature	Target Style
Eclipse Trend Eclipse North Au – Cu - Ba	12	60	720	Banded epithermal quartz vein breccia, barite & gossan with Cu float on surface.	High grade Au (18.7g/t) & Cu (0.53%) rock chips. Au-Cu-Ba auger geochem anomaly (up to 325ppb Au & 1,769ppm Cu).	Discrete sub-circular magnetic low anomaly at intersection of regional N-S fault zone, with NW & NE orientated faults.	High grade hybrid epithermal - VHMS Au-Cu-Ba vein / breccia lode or sulphide rich horizon at depth.
Eclipse Trend Eclipse South Au - As ± Pb	18	60	1,080	Sub-vertical, east dipping, NNE striking silica-limonite rich breccia in float & trench.	Au-As±Pb auger geochem anomaly (up to 714ppb Au). Strong panned Au (+ As in fpXRF) in soil anomaly on NNE orientation.	N/A	High grade epithermal Au vein breccia lode at depth.
Eclipse Trend Moonrise Au – As	3	60	180	Silicic gossan float.	Au-As auger geochemical anomaly (up to 156ppb Au & 657ppm As).	N/A	High grade epithermal Au vein breccia lode at depth.
Yoes Au – Cu	7	60	420	Quartz-limonite veined, banded quartz-magnetite-hematite-carbonate-limonite/sulphide float.	Intersection of Au & Cu auger geochemical anomalies (up to 1,620ppb Au & 615ppm Cu).	Intersection of N-S & NE trending fault zones within the LTZ.	High grade Au lode at intersection with sulphide rich Cu skarn horizon.
Carlisle Magnetic High Cu-Au	6	100	600	Conglomerate cover, with peripheral banded quartz-magnetite-hematite-limonite/pyrite float with trace native Cu.	N/A	Diffuse, sub-circular, magnetic high anomaly within SW-NE striking rift basin setting cut by NW faults.	Deformed / remobilised, Besshi style VHMS Cu-Au deposit (e.g. Tritton Cu-Au-Ag Mine, NSW).
Sorpresa South IP/Gravity Pipe	1 1	270 200	270 200	Soil cover.	N/A	Strong IP chargeability anomaly with an interpreted 'pipe like' geometry, on gravity high.	Concealed gold-silver-base metals & sulphide rich breccia pipe.
Sorpresa East Au - Ag	1	250	250	Concealed, conceptual carbonate base metal Au-Ag structure.	N/A	Interpreted repeat listric fault.	Conceptual, concealed Sorpresa Au-Ag style repeat listric fault structure. Epithermal carbonate base metal Au-Ag style.
Total	49		3,720				

* Program changes without notice may occur