



Thursday, 20th November 2014
Company Announcement Office
Australian Securities Exchange

Sorpresa Gold and Silver Mineralization Resource Update at Fifield, NSW **Further assay results from Sorpresa Due shortly**

Rimfire Pacific Mining NL (ASX:RIM) ("Rimfire" or "The Company") is pleased to provide an update at the Sorpresa Project, Fifield, NSW, as it heads towards the determination of a Maiden Mineral Resource within parts of the currently identified gold and silver mineralized envelope(s) across the Sorpresa project area (approximately 1.5km x 0.5km, at defined locations, Roadside, Join-up, Boundary Gate and Trench 31).

In parallel, the Company maintains its announced strategy to grow and develop a high quality "prospect portfolio" complementing the Sorpresa gold and silver project area by pursuing these prospect opportunities within an approximate 6km radius of Sorpresa. This "Wider Sorpresa Area" of 35km² has the potential for further significant discoveries, with early stage anomalies of promising character already being established in the district. The Carlisle prospect will undergo a first pass drill program commencing in December.

Highlights for Resource Estimation Completion

- **The Company is anticipating it will finalize resource estimates across inferred, indicated and measured categories under the JORC 2012 code**
 - Activity and timetable is provided
- **RC Drilling is underway, to complete a program of 9 "twinning holes" at Sorpresa as part of the resource estimation for "measured" category (Figure 2 for map)**
 - 3 Holes have been completed, a total of approx. 540m of drilling is expected
 - This will provide the highest level of geological confidence to the resource calculations

Activity Remaining	Resource Category Completion Tasks		
	Inferred	Indicated	Measured
Density (SG) Measurement Completion	△	△	△
Statistical Model Finalisation	△	△	△
Compliance Report	△	△	△
Laboratory Validations		△	△
9 RC "Twin Holes" – 540m			△
Time Line expected, from this point	2~4 weeks	3~6 weeks	5~8 weeks

△ Activity due for completion, subject to any changes that may occur

Executive Chairman, John Kaminsky stated:

"We are now well down the path of establishing a Gold-Silver resource within parts of Sorpresa.

This is a very important time for the Company, where the maiden mineral resource estimation is near completion for resource categories **inferred** and **indicated**, with the final technical inputs being assembled.

For a higher level of geological confidence, namely, the **measured** category, we are undertaking 9 additional drill holes, so-called twinning holes. We have already completed 3 holes. This component of the resource estimation program has the largest impact on the ultimate timeline.



RC Drilling "Twin Holes" at Sorpresa

The resource calculations at this point will aggregate results from parts of Sorpresa, including Trench 31,

Boundary Gate, Joinup and Roadside. At this stage BGE will not be included, as it requires further understanding of the mineralization complexity at that location.

The process of completing these phases of the resource estimation represents part of a continuum, as the Company has already identified areas for further expansion of Sorpresa mineralization, including the “Gap” north of Trench31, and again to the east (including BGE) as well as to the south. It is encouraging to have seen signs of mineralization at the “Gap” within Sorpresa on the recently completed 11 hole RC drill program, and we look forward to reporting the assays shortly.

Regionally the Company has now designed a first pass drill program for the Carlisle prospect, as the latest addition to the rapidly evolving regional prospect list of more than 25 ranked opportunities. Previously Carlisle returned rock chip values up to 23g/t Au, and 80% of rockchips above 1g/t Au. Carlisle is now one of five more advanced prospect areas that demonstrate characteristics and scale comparable to Sorpresa, when it was at a similar early stage of exploration.

Pursuing the regional prospect portfolio development strategy concomitant with Sorpresa is setting a solid foundation for the Company. The impressive results accumulating in the Fifield district continue to support the Company’s view that we are seeing a new gold & polymetallic district emerging that demonstrates considerable potential.

The Company looks forward to reporting further milestones and progress as the various activities are completed.”

Continuing work at Sorpresa and Regional Locations at Fifield

In addition to the work being completed on the resource estimation, the Company has maintained programs for discovery growth, both at Sorpresa and within an approximate 6km radius of Sorpresa.

□ At Sorpresa, an area known as the “Gap” has undergone an RC drilling program of 11 holes (900m)

- Field XRF indicates the mineralization has been intersected in parts
- Completed assay results are expected within the next 2 weeks
- This could represent an expansion of the mineralization at Sorpresa, where little previous data existed

□ The Carlisle Prospect has a first pass RC drill program due to commence in December

- The program will drill the subcrop and float locations that previously returned up to 23g/t Au in chips
- Up to 400m of drilling will occur on this promising greenfields area

Further updates will be provided on these programs over the next few weeks.

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).

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 mineralized system of some promise. The gold is predominantly native gold.

Best gold and silver intersections achieved from the period mid-2012 to the current date on the Sorpresa Project area with locations shown include¹:

14m @ 21.9g/t Au plus 6m @ 93g/t Ag	Trench 31
14m @ 24.4g/t Au plus 26m @ 155g/t Ag	Roadside
10m @ 535g/t Ag plus 1.0g/t Au	Roadside
20m @ 230g/t Ag	Roadside North
1m @ 114g/t Au plus 1m @ 33g/t Ag	Boundary Gate East
16m @ 5.32g/t Au plus 20m @ 81g/t Ag	Roadside
4m @ 21.9g/t Au	Join Up

¹ Please refer to Table 1: **Dates and Hyperlinks for previously referred to results in this report**

26m @ 90g/t Ag plus 26m @ 0.37g/t Au Roadside

The current main Sorpresa Strike line containing gold and silver mineralization is approximately 1.5km in length and is at various stages of further discovery extension drilling.

The Company has now established multiple project areas of importance involving hard rock Gold (Au), Silver (Ag), Platinum (Pt) and Base Metal 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.

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 mineralization at Sorpresa with a description of the recent RC drill program goals is available as a [video by hyperlink: Click Here](#).

Company Strategy

The Company has been committed to pursue a **prospect portfolio strategy** of developing the regional prospects at Fifield to suitable stages, in parallel with the Sorpresa project area to achieve outcomes as follows:

- Enhance and highlight the Fifield district's appeal to deliver more discoveries within 6km radius of Sorpresa
- Metals pursued include Gold, Silver, Platinum and Base Metals
- Ensure the Company has the opportunity to make the best discoveries possible in its prospect portfolio
- Continue discovery growth at Sorpresa, looking for important contributions in the next phases of drilling
- Establish an initial resource at Sorpresa, to inferred, indicated in 2014 and measured in early 2015**

Regional Prospects within 6km Radius of Sorpresa Project Area at Fifield

Prioritized current prospects and targets within 6kms of Sorpresa are being systematically assessed. 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) is host to multiple styles of significant mineralization, with combined multimillion ounce gold equivalent potential. To date approximately **25 targets are revealed**.

Figure 1 shows the location and setting for these prospects which are grouped into 7 manageable "Target Domains",

Table of Comparison of more Advanced Prospects within 6km Radius of Sorpresa Projects								
Location	Rock Chip g/t Au	Typical Soil ppb Au	Typical Auger ppb Au	Anomaly Length	RC Drill Au g/t	Open	Other	Historic Workings
Sorpresa	8.8	10~50	20~1,000	1.5km	14 @ 24.4	yes	IP/Gravity	Minor
Yoes Lookout	3.4	10~300	20~1,000	1.7km	N/A	yes	Magnetic Feature	No
Eclipse	18.7	N/A	20~500	2.2km	N/A	yes	Ag	Minor
Golden Green Group	8.1	N/A	10~100	0.5km	2m @ 9.11	yes	Mafic host?	Yes
Roseneath	3.7	8~300	15~80	0.8km	N/A	yes	Sorpresa Style?	No
Carlisle	23.0	9~50	N/A	0.8km	N/A	yes	Magnetic Feature	Minor

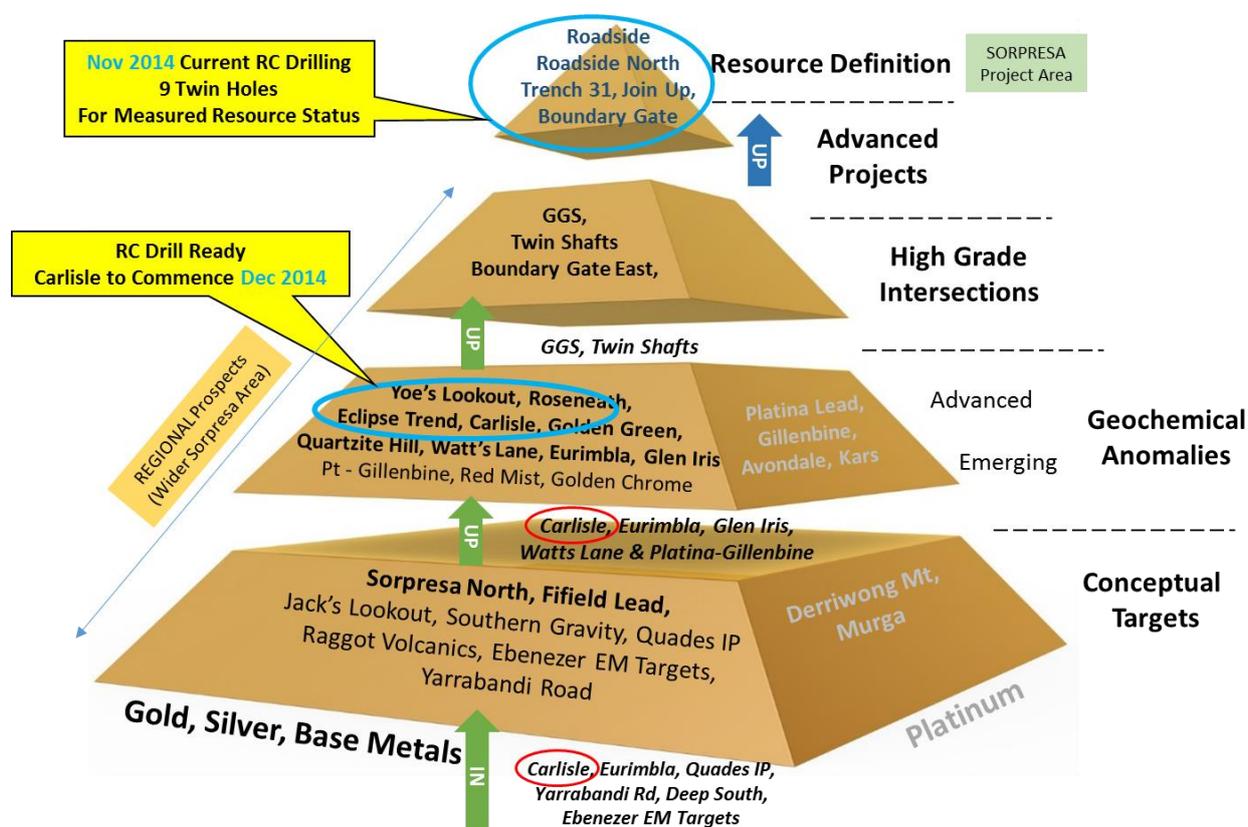
for gold and base metal, in terms of their logistical, spatial, deposit style and exploration stage;

1. **Sorpresa (Carbonate Base Metal Epithermal Au/Ag)** - Roadside North, Roadside, Original Sorpresa
2. **Sorpresa (Carbonate Base Metal Epithermal Au)** - Join-Up, Boundary Gate, Boundary Gate East, Trench 31

3. **Eclipse Trend (Au-VMS / Epithermal)** - McConnell's, Transit, Eclipse North, Eclipse, Eurimbla, Golden Chrome, Roseneath, Watt's Lane, Carlisle.
4. **Yoes Lookout (Skarn and Structurally controlled Greenstone and Sediment hosted Au)**
5. **Orogenics (Structurally controlled Greenstone and Sediment hosted Au)**- Golden Green, Golden Green South, Twin Shafts, Rabbit Hill, Golden Green East.
6. **Sorpresa Extensions** – Sorpresa North, Quartzite Hill, Fifield Lead, Southern Gravity, Red Mist
7. **Conceptual** – Jack's Lookout, Gravity Gradient, Raggot Volcanics, Glen Iris,

Work programs are at various stages of development on the prospects.

Ranked Prospect Portfolio at Fifield NSW



Rimfire Prospect Pyramid illustrated at increasing stages of advancement from Conceptual targets, Emerging and Advanced Geochemical Anomalies, Prospects with High Grade intersections, and Advanced Targets at Sorpresa.

Competent Persons Declarations

The information in the report to which this statement is attached that relates to Exploration Results is based on information compiled by Colin Plumridge and Darren Glover. Both gentlemen are deemed to be Competent Persons and are Members of The Australasian Institute of Mining and Metallurgy.

Mr Plumridge has over 40 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 mineralization 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 his historic information in the form and context in which it appears.

Mr Glover is employed by Rimfire Pacific Mining and has 18 years' experience in the mineral and mining industry. He has sufficient experience that is relevant to the style of mineralization 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'. Mr Glover consents to the inclusion in the report of the matters based on his 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:

The information provided in "About Rimfire Pacific Mining" 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 announcement.

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 was the Competent Person at that time and consented to the inclusion in the original reports in the form and context in which it 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 Mineralization Extended at Fifield, NSW

Metal Prices

As at 19th November 2014, the trading prices (www.kitco.com) for metals in New York, closing Ask in USD were:

Gold	\$1,183/oz
Platinum	\$1,191/oz
Silver	\$16.23/oz



JOHN KAMINSKY
Executive Chairman

Figure 1: Fifield Prospect and Concept Map with Current RC Drilling Locations, and planned Drilling at Carlisle (December)

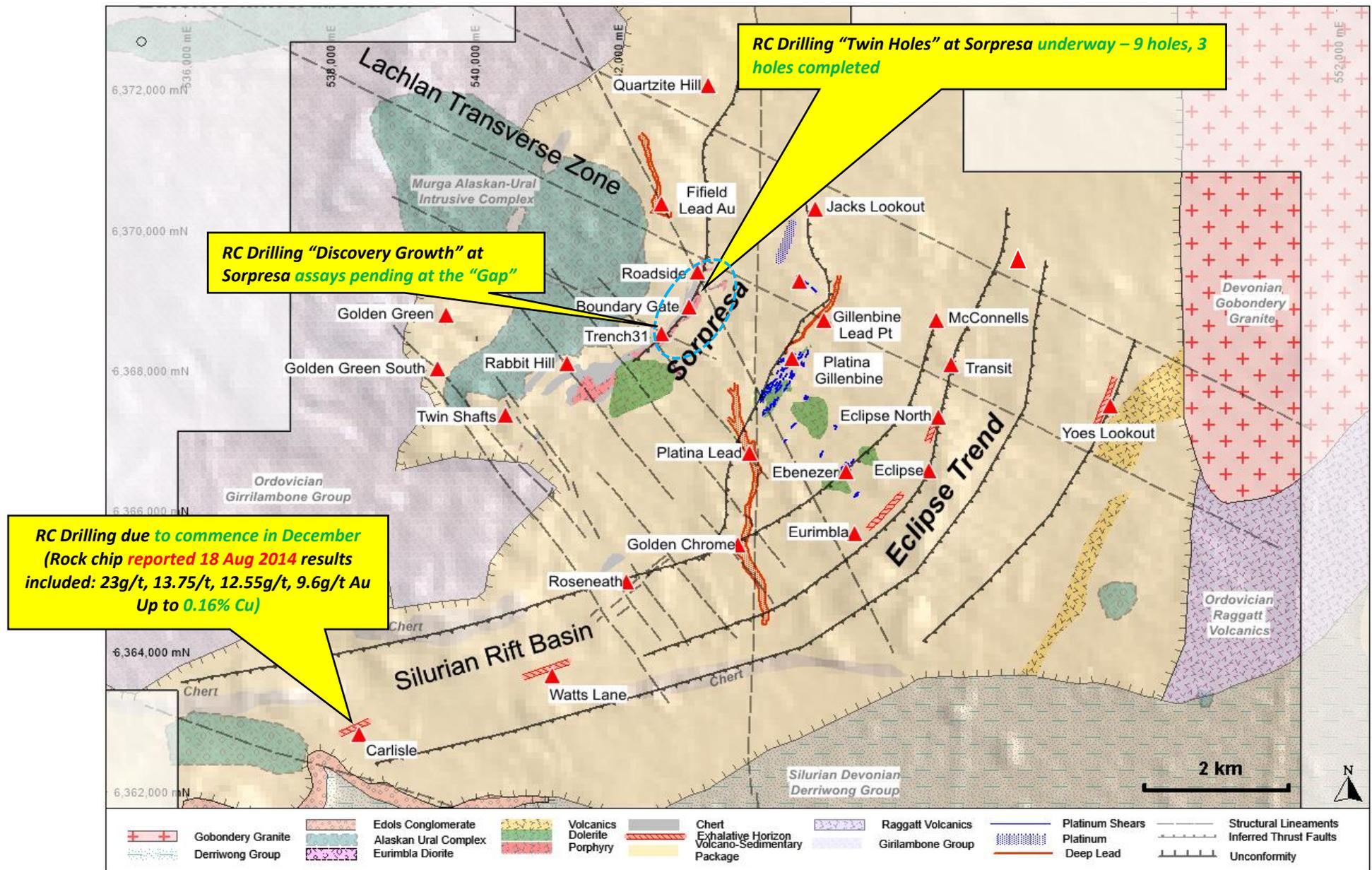


Figure 2: Resource “Twin” RC Drill Collar Locations (red – 9 holes) to contribute to a “measured resource” and RC Drilling completed at the “Gap”

