

15th October 2018

ASX Release

Sorpresa Gold and Silver Resource Appraisal Underway

Rimfire Pacific Mining NL
ABN 59 006 911 744

Corporate Details:

ASX Code: RIM

Issued capital:

943,477,555 FPO
1,500,000 Unlisted Options

Cash Status (30-06-2018):

\$0.894m

Mineral Focus:

Gold, Silver, Copper,
Nickel, Cobalt, Platinum

Established Resource:

Sorpresa
125k oz Au, 7.9m oz Ag
(inferred and indicated)

Directors:

Non-Executive Chairman:

Ian McCubbing

Managing Director & CEO:

John Kaminsky

Non-Executive Directors:

Ramona Enconniere
Andrew Greville

Company Secretary:

Melanie Leydin

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Colin Plumridge and Craig Riley reviewing Sorpresa

Rimfire Pacific Mining NL (**ASX: RIM**) (“the Company” or “Rimfire”) provides an update on the Sorpresa appraisal at the Fifield project which forms a part of its key Dual Strategy ([ASX 25 September 2018](#)).

Highlights of Process Objectives

- ✓ Assess the Sorpresa Resource estimate released in December 2014 (page 4) to determine the viability of a higher grade, lower tonnage project generating a positive cashflow return
- ✓ Integration of the post resource estimation drilling, which was completed between 2014 and 2017, to better define higher grade zones
- ✓ Develop a financial model with corresponding key technical inputs and revenue data for forward work planning and project approval decisions
- ✓ Provided that the financial model produces encouraging results, identify key environmental baseline studies and ancillary activities that would be necessary to initiate a formal approval process from statutory government authorities.
- ✓ Continue the ongoing discovery program in the Sorpresa Corridor to identify further prospects for drill testing. The recently completed gravity survey will support this work.



Craig Riley, Business Development Manager at Rimfire stated:

“The integration of the original drilling used for the 2014 Resource estimate with more recent data has the potential to be a transformational event for the company.

“Successful identification of coherent (strike and plunge) higher grade mineralisation zones would reframe the approach to further assessment of the Sorpresa Project. I am very excited about the work ahead in the next 3 months and reporting the results to shareholders.”



John Kaminsky, CEO at Rimfire commented:

“The Company is moving forward with the Dual Strategy of pursuing the known Sorpresa gold and silver resource appraisal, including the immediate surrounds of Sorpresa for discovery extension, and the potential for discovery of largescale gold and copper mineralisation in the region.

“Craig has added strong impetus and capability to both of these strategic objectives, and we are delighted with the progress and planning he has been able to bring to the project area so quickly.

“The additional funding sought in the recently announced rights issue ([ASX 4 October 2018](#)) will be well deployed pursuing these goals, and we look forward to providing further updates to shareholders.”

Sorpresa Appraisal Details

The original Sorpresa Resource Estimate by H&S Consultants (Table 1 page 4) identified the following within the total resource of 6.4Mt:

- 3.0Mt @ 1.06g/t Au and 22g/t Ag at 0.5g/t Au cut off. And
- 1.9Mt @ 1.11g/t Au and 68g/t Ag at a 1.0g/t Au & 60g/t Ag cut off.

These results support further evaluation to identify if high grade gold zones exist of sufficient tonnage to warrant further investigation

A complete set of sections with manual interpretations of each section is currently in progress. This work will support generation of a wireframe model and updated grade interpolation to understand the potential impact of drilling conducted since the original December 2014 resource estimate at Sorpresa.

The results of this work and incorporation of metallurgical criteria, in studies conducted to date ([ASX 6 December 2013 - Metallurgy Report](#)) will assist in determining if any mine pit optimization work is necessary or additional resources are necessary. In parallel, site investigations will be done to determine critical environmental or ancillary activities that are necessary to warrant pursuing a formal mining operations approval process with statutory authorities.

During the New Gold Inc. farm-in period ([ASX 28 October 2016 – New Gold Inc deal with Rimfire](#)) the majority of site exploration was controlled by New Gold Inc., with Rimfire having a lesser participating interest. The decision by New Gold Inc. to exit Australia ([ASX 26 February 2018](#)) now allows Rimfire to integrate their work and implement Rimfire’s Dual Strategy.

The recent detailed gravity survey will assist the identification of targets, in close proximity to the known Sorpresa resource, with a potential to add to the resource base.

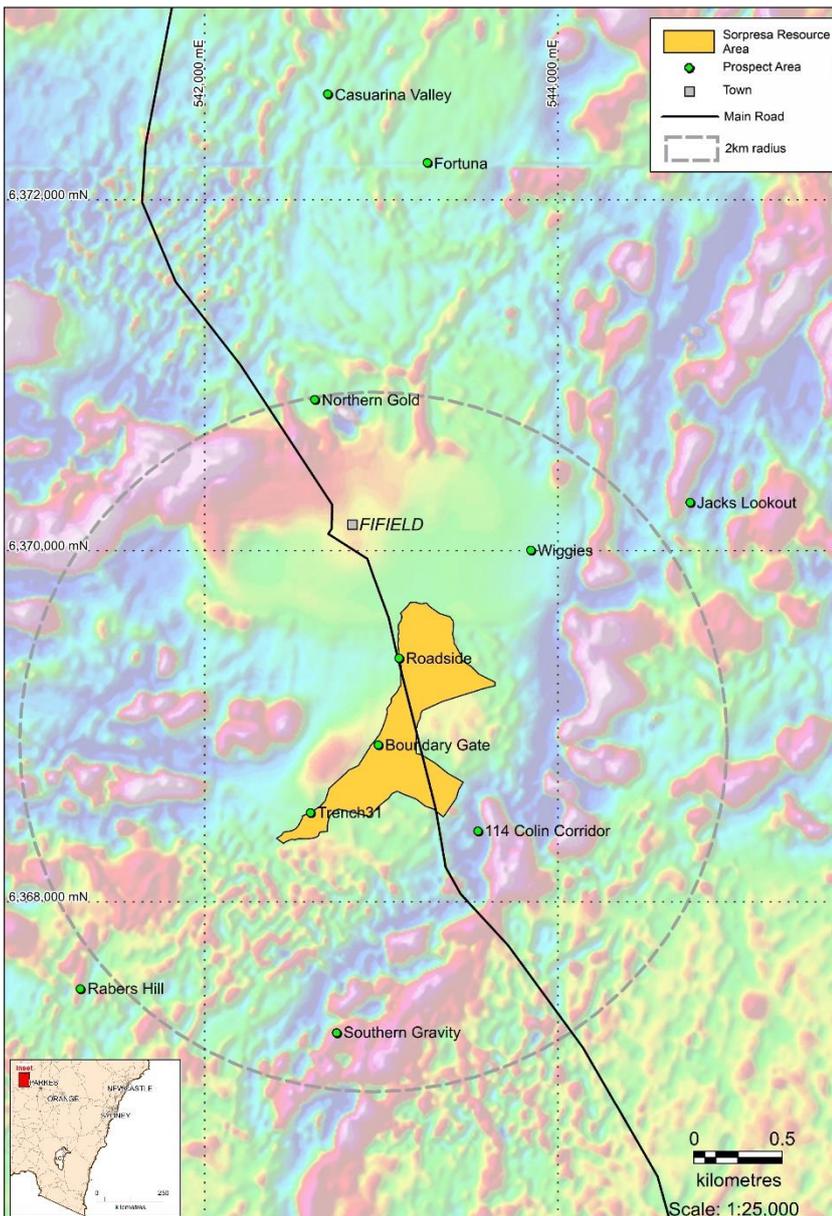
Gravity Survey Update

The Company was pleased to advise field data collection on the detailed gravity survey ([ASX 5th September: Detailed Gravity Survey Scheduled at Fifield NSW](#)) has been completed by Atlas Geophysics. Atlas will now complete final processing, data checking and combination of this new data with previous gravity surveys on the project area. Final versions of the survey are expected in 3 weeks.



JOHN KAMINSKY
CEO and Managing Director

Figure 1: [Sorpresa Resource and adjacent prospects](#)



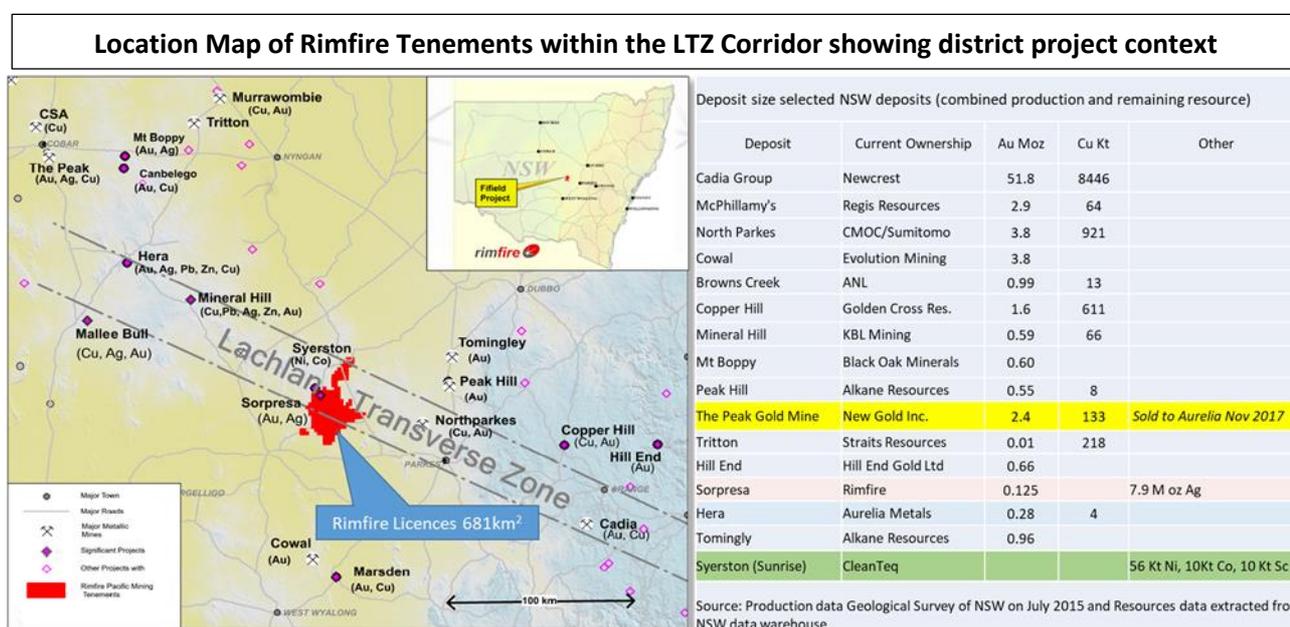
ABOUT RIMFIRE

Rimfire Pacific Mining is an ASX listed (code: RIM) resources exploration company that has its major focus at Fifield in central NSW, located within the Lachlan Transverse Zone (LTZ). In 2010~11 the Company made a greenfields gold and silver discovery, named "Sorpresa", announcing a JORC Compliant Inferred & Indicated Maiden resource in 2014. The discovery history of Sorpresa is shown in the [Hyperlink to the ASX presentation to the Mineral Council May 2017](#).

High grade intersections at Sorpresa have included:

Fi160	14m @ 21.9g/t Au from 34m	Incl. 2m @ 87.5g/t Au and 6m @ 94g/t Ag
Fi212	14m @ 24.4g/t Au from 26m	Incl. 2m @ 118g/t Au and 26m @ 155g/t Ag from 14m
Fi241	10m @ 1.01g/t Au and 535g/t Ag from 70m	Incl. 2m @ 2020g/t Ag
Fi329	1m @ 114g/t Au from 159m	
Fi689	9m @ 18.15g/t Au and 100g/t Ag from 18m	Incl. 1m @ 69g/t Au and 254g/t Ag
Fi706	7m @ 13.41g/t Au and 751g/t Ag from 19m	Incl. 1m @ 76.7g/t Au and 2490g/t Ag

The current main Sorpresa trend containing gold and silver mineralisation is approximately 1.5km in length and is at various stages of further discovery growth assessment. This area lies within the larger 7km x 2km Sorpresa corridor.



Multiple prospects involving hard rock potential for Gold, Silver, Copper and Platinum have been established within a >6km radius of the Sorpresa discovery at Fifield, which is part of Rimfires 681km² contiguous tenements. The project area is very accessible by bitumen road and only 4.5 hours from Sydney.

More recently, Rimfire has also examined for cobalt, nickel and scandium potential within its tenements.

Aspiration target scale in the wider Fifield District

The discovery aspiration ([established with New Gold Inc., during the 2017 earn-in venture](#)) for the Fifield area is an aggregate discovery outcome in excess of 4 million ounces of gold equivalent metal, being capable of supporting a mine life in excess of 10 years, and within the lower third of industry costs of production.

Recent Presentation and ASX Activity Summary and Analyst reports related to Rimfire

- The Company's Fifield Project Strategy outlined to ASX [Dual Strategy - Sorpresa Appraisal and Regional Discovery](#)
- [June 2018 Quarterly Activities Report](#)
- A research report on the Company was compiled by Independent Investment Research (IIR) April 2018 – Senior Analyst Mark Gordon, and is available on the Company website (www.rimfire.com.au)
- The Company released its [Investor Forum Presentation on 31st January 2018](#)

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/or compiled by Todd Axford who is deemed to be a Competent Person and is a Member of The Australasian Institute of Mining and Metallurgy.

Mr Axford has over 23 years' experience in the mineral and mining industry. Mr Axford is employed by Geko-Co Pty Ltd and is a consulting geologist to the Company. Todd Axford has sufficient experience that is relevant to the style of mineralisation and type of deposits 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'. Todd Axford consents to the inclusion of the matters based on the information in the form and context in which it appears.

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

The information provided in "About Rimfire Pacific Mining section" is available to view 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.

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.

Table 1: Sorpresa Mineral Resource estimate reported under JORC 2012 code

Resource	Cut off	Category	Mt	Grade		Contained Metal	
				(g/t) Au	(g/t) Ag	Koz Au	Moz Ag
Gold	0.5 g/t Au	Indicated	2.0	1.14	27	73	1.7
		Inferred	1.0	0.9	12	29	0.4
		Total	3.0	1.06	22	103	2.1
Silver	25 g/t Ag	Indicated	2.1	0.21	62	14	4.2
		Inferred	1.2	0.19	40	7	1.6
		Total	3.4	0.20	54	22	5.8
Combined	0.5 g/t Au & 25 g/t Ag	Indicated	4.1	0.67	45	88	5.9
		Inferred	2.2	0.51	27	37	2.0
		Total	6.4	0.61	38	125	7.9

Notes:

1. Sorpresa Mineral Resource reported to JORC 2012 standards, at 0.50 g/t Au and 25g/t Ag cut-off
2. The figures in this table are rounded to reflect the precision of the estimates and include rounding errors.
3. [ASX Announcement of Sorpresa Maiden Gold and Silver Resource 23 December 2014](#)

Forward looking statements Disclaimer:

This document contains "forward looking statements" as defined or implied in common law and within the meaning of the Corporations Law. Such forward looking statements may include, without limitation, (1) estimates of future capital expenditure; (2) estimates of future cash costs; (3) statements regarding future exploration results and goals. Where the Company or any of its officers or Directors or representatives expresses an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and the Company or its officers or Directors or representatives

as the case may be, believe to have a reasonable basis for implying such an expectation or belief. However, forward looking statements are subject to risks, uncertainties and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward looking statements. Such risks include, but are not limited to, commodity price fluctuation, currency fluctuation, political and operational risks, governmental regulations and judicial outcomes, financial markets and availability of key personnel. The Company does not undertake any obligation to publicly release revisions to any "forward looking statement", or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.