

25th September 2018

ASX Release

Rimfire Pacific Mining NL
ABN 59 006 911 744

Corporate Details:

ASX Code: RIM

Issued capital:

943,477,555 FPO
2,300,000 Unlisted Options

Cash Status (30-06-2018):
\$0.894m

Mineral Focus:
Gold, Silver, Copper,
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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C Riley and C Plumridge
examine Sorpresa

Dual Strategy - Sorpresa Appraisal and Regional Discovery

Economic review of Sorpresa resource to progress in parallel to regional discovery pursuit

Highlights and program objectives

- Sorpresa gold and silver resource technical and economic assessment to be a priority
- Objective to seek a positive cashflow from future mining operations or potential asset sale
 - Cash generated to be used to seek Sorpresa extensions and support regional exploration
- Regional Discovery potential to be pursued, in search of large scale ore bodies at Fifield
 - Aided by potential earn-in JV partner engagement, currently being sought
- Craig Riley, Business Development Manager, commenced with the Company 17th September his role is to deliver the dual strategy:
 1. Sorpresa assessment and potential to monetise this asset
 2. Oversee the Regional discovery growth through the technical field team

Rimfire Pacific Mining NL (ASX: RIM) ("the Company" or "Rimfire provides an update for the Company on its dual strategy in the Company's pursuit of value shifting outcomes at Fifield NSW.

Strategy component 1 – Monetise Sorpresa to provide a positive cash contribution

The 2011 Sorpresa gold and silver discovery and subsequent resource statement made in December 2014 confirmed that Rimfire had intersected a new zone of mineralisation in the Fifield district.

The focus of ongoing work over the subsequent years (mapping, drilling and metallurgy) has been to advance the resource definition at Sorpresa. This included gaining a better understanding of the structural and geological controls on the gold and silver mineralisation, and processability of the Sorpresa discovery.

A complete review and integration of all this work will be undertaken to determine if the identified high grade zones at Sorpresa, provide sufficient mineralisation at a suitable cut-off grade to allow development of a mining operation. This could then provide Rimfire with a future source of funding to assist with exploration costs.

The identified gold and silver mineralisation at Sorpresa remains open in many places (not closed by drilling) along with many untested prospects within a 4km radius of the original discovery.

Strategy component 2 – Continue the Regional Discovery Pursuit for large scale ore bodies

The broader Fifield area also remains prospective for further discoveries including large scale porphyry style gold or copper/gold systems in the Ordovician Volcanic geology. This age of geology (Ordovician Volcanics) is host to the Cowal (Evolution Mining) and Northparks (China Molybdenum) mines in the adjacent area (within 100km of Fifield).

Work undertaken in the Southern and Central Ordovician Area mapping and sampling program conducted by Mr Mike Love reported ([ASX 3rd July 2018: Fieldwork in the Southern Project Area Highlights Gold Potential](#)) is aiming to more rapidly vector towards drill targets in this prospective area for gold-copper mineralisation.

Historically there has been limited exploration work with a focus on porphyry style mineralisation in this Southern area as the rocks were misinterpreted as the wrong age. The reassessment by Rimfire geologists and interpretation of this area as an Ordovician volcanic package has fundamentally and positively changed the prospectivity of this area. This interpretation is now increasingly accepted amongst the broader geological community with technical knowledge in this region of NSW.



John Kaminsky, CEO, Rimfire commented:

"Craig Riley has the experience and technical skills to lead a full economic assessment of the Sorpresa existing resource, the knowledge to seek mineralization extensions at Sorpresa and to discover further mineralization in the Fifield project areas.

"The Company looks forward to unlocking a potential pathway for economic success at Sorpresa with the objective of generating some cash for future extensional and regional discovery programs, which remain highly prospective. The gravity survey, currently underway is the next step in this regional work."

A handwritten signature in black ink, appearing to read "JKaminsky".

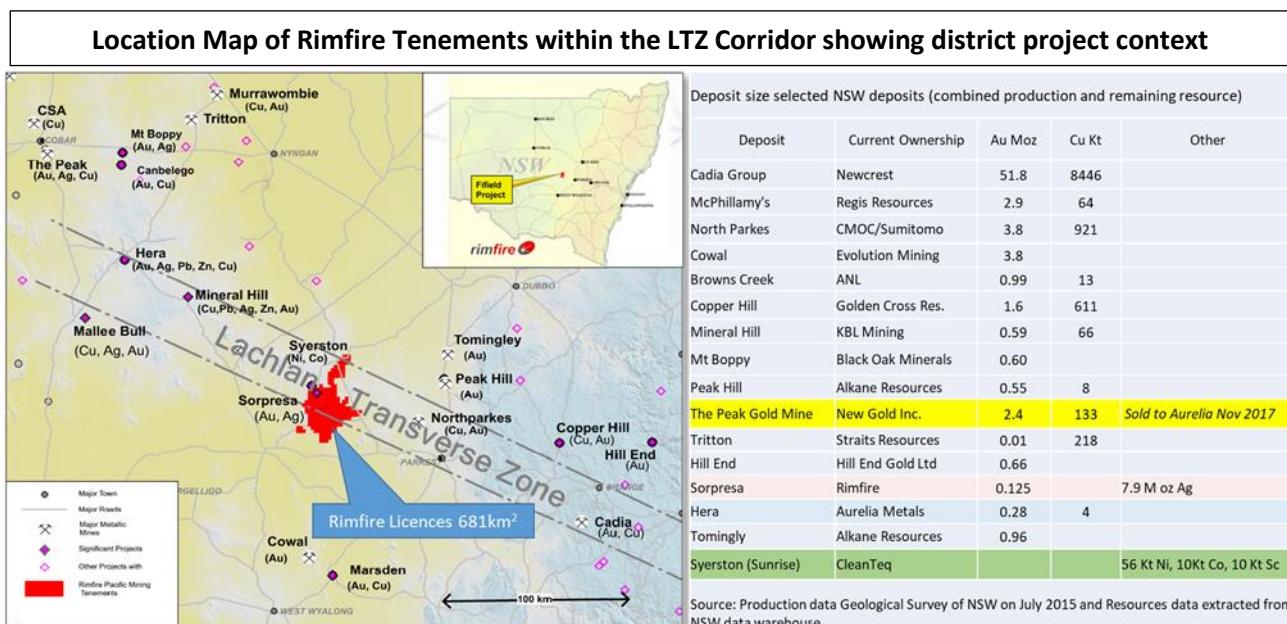
JOHN KAMINSKY
CEO and Managing Director

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
F1241	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, including 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 the contiguous 681km² tenement position held. The project area is very accessible by bitumen road, located within easy access to Sydney.

More recently, Rimfire has also examined for cobalt 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 released its [Investor Forum Presentation on 31st January 2018](#)
- 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)
- [March 2018 Quarterly Activities Report](#)
- [June 2018 Quarterly Activities Report](#)

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.

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.