

Company Announcement Office Australian Securities Exchange

rimfire pacific mining nl a.c.n. 006 911 744

Exchange Tower Suite 411 530 Little Collins Street Melbourne Victoria Australia. 3000

Telephone 61 3 9620 5866 Facsimile 61 3 9620 5822 e-mail: rimfire@rimfire.com.au website: www.rimfire.com.au

Next Stage Bedrock Auger Drilling Completed at Sorpresa Gold Prospect

- Encouraging Geology Encountered in Field Observations, 300 New Samples Pending Gold Assay

The Company has conducted extensive additional auger drilling traverses into the bedrock at the Sorpresa Fine Gold (Au) prospect.

Key Summary

- > 1,500m of new Auger Drill traverses were conducted giving further bedrock information over Sopresa Au Prospect
 - More than 15 new auger drill lines, sampling bedrock at 5m intervals were completed
 - o Approx. 300 new samples have now been submitted for Au assay
- Observations from the field during drilling indicate similar geology to previous work (note the assays are pending)
 - o Broken black silica appears to mark the mineralised fault line zones
 - The projected mineralisation extends south-west and is now encountered 350m from Trench 31
 - o "Trench 31 like" material appears to continue north-east from Trench 31
- Focused targets are being established for RC drilling
 - Au assays results from auger drilling traverses will provide the basis to allow follow up RC drilling
 - Additional trenches will be conducted and are underway
 - o RC Drilling plan to be finalised within April for drilling soonest thereafter

Gold Assays are due to be received shortly on the new samples submitted. **Appendix 1** shows the new auger traverse areas under discussion.

Executive Chairman, John Kaminsky stated "The bedrock auger drilling programs are working a treat. When we combine this information with the soil geochemistry results, it provides a very powerful vector to the underlying mineralisation we want to RC drill.

...This work at Sorpresa is quick and enables excellent mineralisation target definition at very low cost. The same methodology lead us to Trench 31 with its significant gold grades, and we feel confident our subsequent RC drill program will be well targeted...

Head of Exploration, Colin Plumridge said "...the recently published soil geochemistry confirmed a number of areas with better results than those over trench 31. In the field, the new auger drill lines into bedrock certainly look good, with the same type of underlying geology expected being revealed...while the gold assays will tell us the complete picture, based on visual rock type, the mineralisation trend is continuing in these new auger traverses...

...We look to have mineralisation extensions to the south-west heading in the direction of the historic gold workings, some 750m away ...the projected mineralisation path was hit in the auger traverse some 350m from Trench 31...and we are still open

... Establishing the mineralisation geometry is very important and our work programs are achieving this important goal...



Examining Bedrock Geology

... Many of the new auger drill traverses along the north-east strike from trench 31 also provide visual encouragement from a field perspective in terms of the geology...the gold assays should provide a clear determination of the relevance of each auger traverse, thus pointing to the more important mineralised areas at Sorpresa"

The company provides the following video material for field context discussion on the Sorpresa soil geochemistry and the recent bedrock auger drilling program.

Ctrl Click the video link: Field Discussion at Sorpresa Gold Prospect Fifield NSW – February 2011

(Previous details already announced to ASX on 13th October 2010¹, 28th October 2010², 15th December 2010³, 25th January 2011⁴ and 21st February 2011⁵ provide important context to the ongoing programs at Sorpresa with hyperlinks below).



2nd Auger Rig Operating



New Important 40m zone north-east of Trench 31



Background Explanation on Exploration Approach and Work to Follow at Sorpresa

An exploration program of soil geochemistry and bedrock geochemistry using auger traverses, followed by more detailed assessment using limited trenching and RC drilling with conventional fire assays has enabled the discovery at Sorpresa to take place to date.

The exploration methodology going forward continues to focus on the following approach:

- In general, soil geochemistry will be used as a broad scale and sensitive scoping tool for elevated Au (>5ppb)
 - This low cost method works well in the residual soils at Sorpresa and can be deployed rapidly.
 - Detailed mapping of soil types is an important part of this work.
- Auger traverses will test bedrock geochemistry associated with surface based Au anomalism in the soils
 - This assists the understanding of geological association and 2D spatial definition of the Au mineralisation.
- Trenching will be applied to selected auger traverses and other areas as appropriate
 - This provides continuous sections of geology to establish Au association to rock type and structure.
 - The auger traverses can miss higher grade Au mineralised sections due to the discrete sampling method of the
 - Au grade can be established in large continuous sections, if present. 0
 - Dip and orientation on Au mineralisation can be assessed to assist deeper RC drilling.
- Deeper RC drilling will be conducted once sufficient 2D data and orientation is established on the Au mineralisation
 - This is necessary to be cost efficient, optimise intersections and minimise environmental impact. 0
 - Some holes will be needed to gain greater geological insight and structural orientation. 0
 - The goal is to intersect the higher grade Au mineralised zones and provide 3D orientation at depth.

ASX Announcement – 13th October 2010 Bedrock Assays Confirm Sorpresa Fine Gold Potential at Fifield

ASX Announcement – 28th October 2010 Sorpresa Fine Gold Prospect Trench Produces Excellent Assay Results

ASX Announcement - 15th December 2010 Sorpresa Fine Gold Prospect Further Examined at Fifield NSW

ASX Announcement – 25th January 2011 Gold Mineralisation Examined in more detail at Sorpresa Prospect

⁵ ASX Announcement –21st February 2011 Positive Soil Line Assays at Sorpresa Gold Prospect

The Company will be trying to establish the correlation variability between auger traverse Au grades in bedrock and the true bedrock Au grades. Some trial and error will be a feature of this work, testing both high and low grade Au results in the augered bedrock, to help determine better defined bedrock targets for deeper RC drilling.

The approach being adopted represents conventional exploration. It should enable rapid exploration of Sorpresa over a large area, with focussed subsurface targets that are identified and tested quickly, in a fairly continuous manner.

Sorpresa Au and Base Metal Area – Background Summary

Whilst it is still at an early stage, in the Company's opinion, the larger Sorpresa area is already established as a disseminated fine gold area of considerable promise. The mineralisation is amenable to both surface based geochemical prospecting and RC drill evaluation. This straightforward technical pathway greatly enhances the chance of economic success.

The project area is located immediately south of the Township of Fifield NSW and sits within the well established, highly mineralised regional corridor, the Lachlan-Cadia Lineament⁶. This corridor includes the Riotinto owned North Parkes Copper-Au mine and the Newcrest owned Cadia Valley Au-Copper mines amongst others.

The larger Sorpresa area was covered with broad spaced lines of soil geochemistry earlier in 2010 (100m line spacings and 25m sample interval). This coverage was based on the early concept that the originally discovered Sorpresa style of mineralisation could be extensive, but unrecognised.

The assay data on the soil geochemistry combined with the October/December 2010 auger traverses and Trench 31 placed over selected Au anomalies within these soil results confirms that the larger Sorpresa area represents Au anomalism that is large and significant.

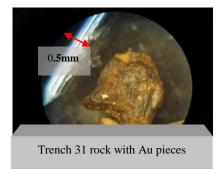
The soil geochemistry map at Sorpresa is encouraging to the increased size of the Au mineralisation and the degree of continuity suggested. The Au in soil results integrate with and enhance the earlier more widely spaced results achieved on the N-S orientation in 2010. This demonstrates the Sorpresa Au soil anomaly is repeatable, robust, increasing and remains open.

Mineralisation

As indicated by the soil geochemistry, the mineralisation seems to occur in three parallel lines dominated by breccia zones with associated disseminated sulphide gossan and alteration, but very low in vein quartz.

The mineralisation decomposes to soil, leaving little or no trace of its presence on the surface. The Au being both very fine and disseminated did not suit the miners of past eras even if it had been located. Modern exploration and processing techniques make this mineralisation an ideal style to pursue.

The Au is very fine and disseminated through the breccia as confirmed with the Trench 31 sampling (October 2010) undertaken producing repeatable Au assays.



Interpreting Trench 31 within the Sorpresa area

- → The high Au grade of Trench 31 confirms that the Sorpresa-Trench 31 corridor has a strength of gold mineralisation that is encouraging to the Company's opinion that this area is an unexplored gold field.
- → Both tested areas of the currently known Sorpresa-Trench 31 corridor are centred on brecciated sediments, with fine gold contained in a strong mineralised zone with negligible vein quartz, 1.2km apart and open ended.
- **→** The larger Sorpresa prospective gold area at February 2011 exceeds 1.9km x 0.4km and is essentially open ended ⁷

The Company has noted many fine disseminated gold occurrences focused on sediments in the Fifield district over a number of years, of which Sorpresa is only one such area⁸.

Earlier Background (2008) on Sorpresa Area⁹

⁶ See Appendix 4 – Location maps

See Appendix 2

⁸ See Appendix 3

⁹ Rimfire Exploration Report June Quarter 2008 pages 5~7

The Sorpresa prospect originally consisted of a relatively small Au and base metals in soil anomaly located near an historic shaft, after a rock chip from the shaft returned a value of 8.8g/t Au¹⁰. The prospect was RC drilled by Rimfire in 2008 and a body of Au mineralization inferred from the analyses of the RC drill hole samples. The host to mineralization was also a brecciated sediment with an uncertain size and orientation. The Company was of the view at that time that this mineralisation may not have occurred in isolation and this has proven to be correct.

Explanatory video is provided by the Company for the purpose of better understanding the Sorpresa Area and style of work conducted. These videos can be found on the Company website at www.rimfire.com.au in the Presentations and Videos section.

The spot closing metal prices as at 4^{th} March 2011 in New York were Platinum USD\$1,847/oz and Gold USD\$1,433/oz (Reference www.kitco.com).

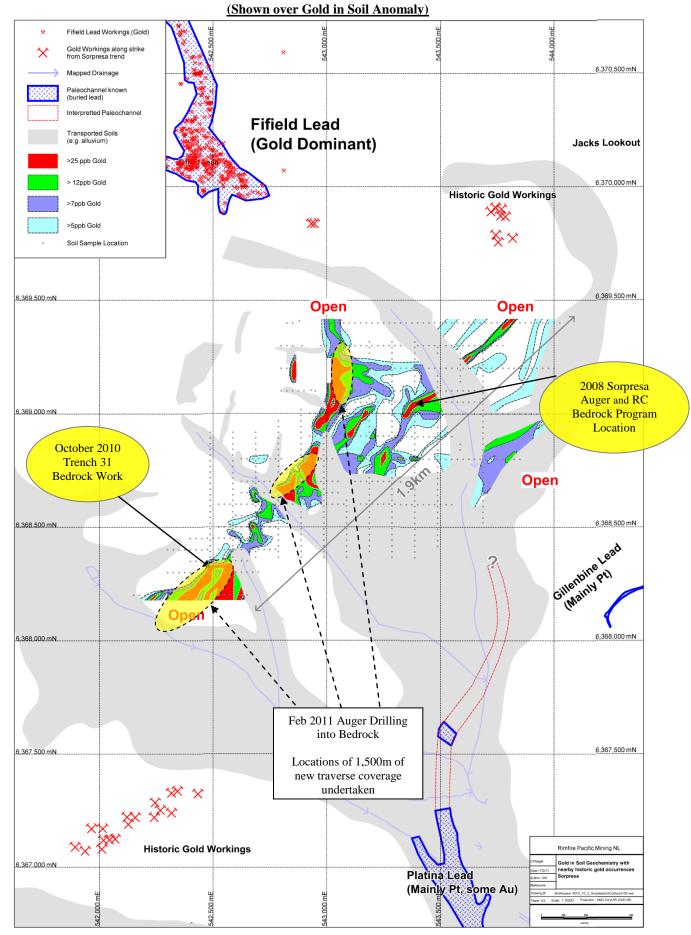
JOHN KAMINSKY Executive Chairman

The information in the report to which this statement is attached that relates to Exploration Results is compiled by Mr Colin Plumridge, who is a Member of The Australian Institute of Mining and Metallurgy, each with over 40 years experience in the mineral exploration and mining industry. Mr Plumridge is employed by Plumridge & Associates Pty. Ltd. and is a consulting geologist to the Company. He has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which is being undertaken to qualify as Competent Persons as defined in the 2004 edition of the "Australian Code for Reporting of Mineral Resources and Ore reserves". Mr Plumridge consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

4

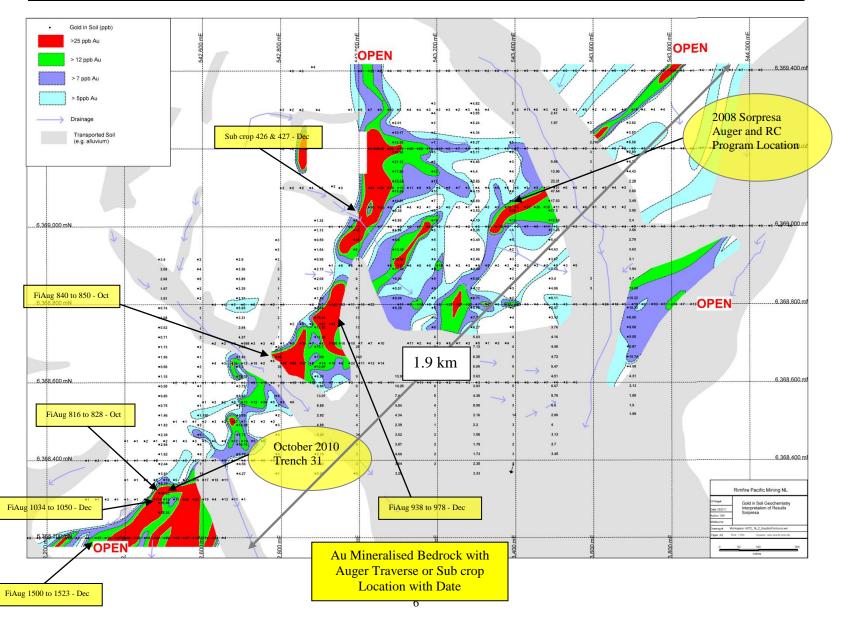
¹⁰ Rimfire Exploration Report March Quarter 2009, pages 4~5

Appendix 1
Recently Completed Additional Auger Drill Program into Bedrock



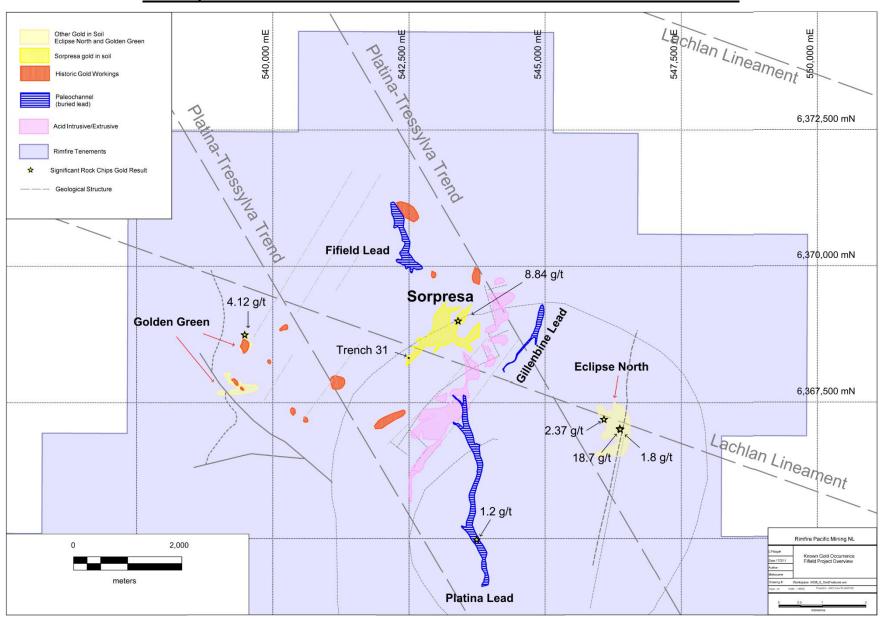
APPENDIX 2 The Sorpresa Area Anomalous Gold Zone

(Soil Geochemistry Contour with Bedrock Au Mineralisation Exploration Shown in the period to December 2010)



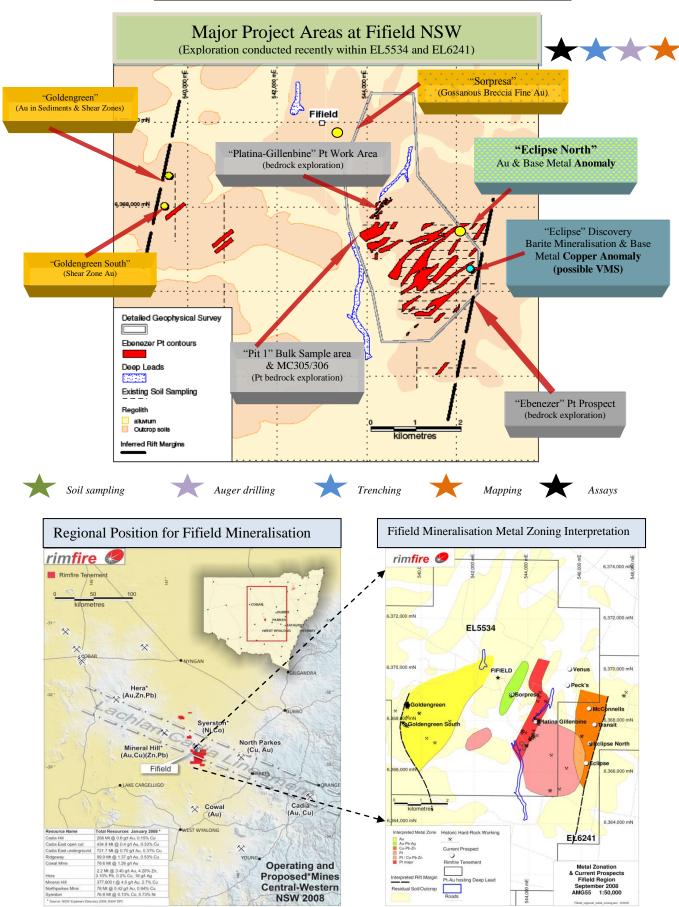
APPENDIX 3

The Sorpresa Area Anomalous Gold Zone – within the wider Fifield Gold Observations



Appendix 4

Project Areas Fifield NSW and Metal Zoning Interpretations



Appendix 5

Project and Mineralisation Background – Fifield NSW

The systematic exploration by Rimfire within the immediate Fifield region has continued to develop a wide variety of mineralised prospects. Each prospect has a strong geochemical surface expression, a highly relevant geological context and favourable development criteria.

There is a significant variation in mineralisation styles at Fifield, which includes Au, Pt and Cu/Base Metal prospects, with these occurring across a zone of less than 10km width. This observation also provides further support to the interpretation of the region as being a complex volcanic rift setting, with evidence for multiple, polymetallic mineralisation events associated with subvolcanic intrusives, shearing and brecciation at various scales.

Accordingly, the exploration shows that metal zoning remains an important feature of the regional geology at Fifield. The under explored Fifield area represents an excellent exploration setting for discovery of commercial mineralisation in the Company's view.

The major mineralisation targets for exploration by the Company at Fifield remain focused on the Sorpresa Fine Gold area and the gravity recoverable coarse grain Platinum areas. The Platina-Gillenbine area is of particular importance in understanding and delineating the bedrock mineralisation.

A key feature of the exploration landscape at Fifield NSW is the minimal outcrop available for examination. However, in many instances the depth to bedrock is less than two metres, so a combination of soil geochemistry assays, auger drilling and trenching to bedrock with complementary bulk sampling is rapid and effective way to explore for significant mineralisation. These activities are also relatively low cost to undertake.

Historic Pt mining at Fifield yielded in excess of a reported 20,000 oz of Pt from the deep leads and surface soil mining (circa. 1890~1930). The major deep lead was the Platina Lead, worked at a depth from 12m to 25m over a length of 2.8km with a reported grade of approx. 15g/t gravity recovered Pt equivalent.

The northern extent of the Platina Lead was not able to be defined historically. This northern section represents an important component of the Pt bearing alluvial system, both with respect to its commercial potential and the exploration knowledge base the lead provides, in relation to the source area(s) for Pt entering the alluvial system along the full extent of the Platina Lead. A further 500m of the Platina Lead has now been demonstrated to be present (2009), but this un-mined section has not yet been tested by the Company.

The Company's key overall objective remains, "to establish a potential open cut minable resource(s) within the various project areas including the Sorpresa Gold area and also the 6km² zone of currently identified Pt mineralisation noted within the Platina-Gillenbine and Ebenezer project areas", which includes both alluvial targets and the greater bedrock system.