



24th October 2008

Company Announcement Office
Australian Securities Exchange

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

QUARTERLY EXPLORATION REPORT

For the period July 1st to September 30th 2008

HIGHLIGHTS FOR THE QUARTER FIFIELD NSW

The primary objective within the period was to advance the Platina-Gillenbine project areas, including the bulk sample disturbance area known as **Pit One**. To this extent, soil sampling programs, auger drilling and trenching programs were undertaken at various locations to help delineate high priority target areas containing coarse grain Platinum (Pt) within the bedrock. These programs were also designed to help determine the structural and geological control for the Platinum mineralisation and have proven to be successful in this regard.



Base of Trench 24a Showing Pt bearing veins

Within early October, the Company had made a significant discovery concerning the geological control of the Pt mineralizing system at Fifield.

The intersection of complex, clearly identifiable vein structures, containing Pt, Au and a key pathfinder element Chromite (Cr) occurred in Trenches 20, 24 and 24a. The Company believes that this could be representative of the entire mineralised Pt system observed at Fifield within the Platina-Gillenbine and Ebenezer project areas¹.

This outcome was the result of the Company's cumulative knowledge gained in exploration work at Platina-Gillenbine and specifically within the Pit One vicinity. It represents an important milestone with respect to Pt exploration at Fifield.

In addition to the work at Platina-Gillenbine, the Company performed further systematic exploration within the immediate Fifield district at a number of the other mineralised prospects that have now been identified. Accordingly, work programs were continued on the emerging Au and base metal prospects at "Eclipse North" and "Sorpresa". New prospects have also been added to the north of these areas, based on reconnaissance mapping and additional rock chip sampling.

Exploration Program Summary for the "Pit One" Area

Trenching within the "Pit One" Pt bulk sampling vicinity demonstrated that coarse Pt is present in the underlying bedrock. *A key geological control has now been discovered for Pt, shown to be contained within mineralised veins. The vein structures also contain Au and the pathfinder mineral, Chromite.*

"Pit 1" is considered an important area, linking the shear zone system, at Platina-Gillenbine to the gradation of the near surface bedrock position to the alluvium covered valley containing the Platina Deep Lead system.

¹ This combined area is approximately 6km²

- **Trenching has uncovered complex cross cutting vein structures near the “Pit One” area yielding observable Pt, Au and Cr**
 - the Pt, Au and Cr are confined exclusively to the vein structure
- **The vein structure now identified is a geological and structural control on the Pt mineralisation.**
 - Veins are relatively soft compared with surrounding rock and vary in width from 1cm to 30cm
 - The structures are most likely related to the shear zone systems, which are believed to extend to depth
- **The Chromite association is important as it represents a “pathfinder” element, enabling more focused exploration on the most likely Pt bearing sections of the geology at Fifield**
 - The Pt and Cr appears to form in clusters within the veins
 - Old samples taken by the Company can now be re-examined for the more abundant Cr association, to better assess Pt position at Fifield



Trenches 20 and 24



Binocular examination

Exploration Summary of Platina-Gillenbine Area – “Eastern Shear Zone” Coarse Pt Anomaly in Residual Soil

A Residual soil sampling program in the period identified the “*Eastern Shear Zone*” at Platina-Gillenbine Pt area. The “Eastern Shear Zone” Pt contours were plotted into a *coarse grain Pt in soil anomaly* and these trend into the Company freehold area, in a complex orientation that appears to relate to the Pit One area.

- ***The Pt soil contours exceed a 1,000m strike length. This is a significant new anomaly parallel to the “Central Shear Zone”***



- More than 140 soil samples at 20kgs each, were used to define the Pt mineralisation in areas predominantly free from past Pt surface mining. The subsoil clay layer was extensively sampled with 100 new auger holes to further define the mineralisation.

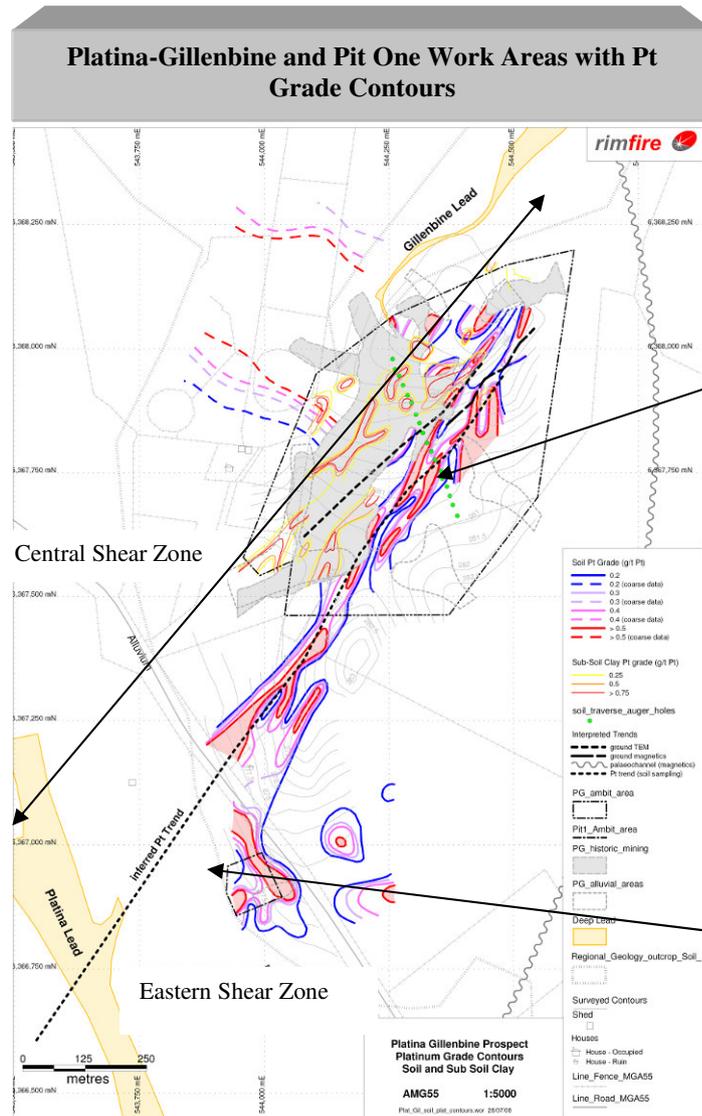
- The Company also completed 14 soil layer test pits to establish the Pt grade variations with depth. These pits have provided a better understanding of Pt movements between bedrock and soil at Platina-Gillenbine.

- A detailed topographic survey was conducted enabling soil movements, drainage divides and subtle catchments to be understood that appear to have accumulated Pt in the surface soils.

Platina-Gillenbine and Pit One Area - Further Interpretation and Work Program Direction

The “*Eastern Shear Zone*” Pt surface anomaly was established in the quarter as a *continuous feature over a strike length of 1,000m*. It extends into the Company owned freehold land area. The Pt contours within the residual soil are parallel in orientation with the subsoil Pt anomaly at Platina-Gillenbine, now named the “*Central Shear Zone*” (which was defined in 2006).

The “*Pit One*” sampling area appears geologically influenced by the Eastern Shear Zone. Accordingly, the Pit One area is being extensively evaluated with auger drilling and trenching for the significance and orientation of the Pt position in the bedrock at this location. The discovery of the mineralised control of Pt in veins resulted from this work program focus.



Location for subsoil clay sampling with the auger drill on the new linear Pt in soil anomaly “*Eastern Shear Zone*”



Mineralised veins seen in Trench 24a floor exposure vicinity of Pit One

The vein structures seen in the Pit One vicinity still requires detailed understanding and assessment to determine “where the best areas” of Pt reside. (It is believed that the Pt is likely to reside in high grade clusters, within veins of this type).

In very limited sampling to date, the better vein grades are around 0.6g/t Pt and 0.3g/t Au, as gravity recovered material, estimated internally by the Company. However, the Pt grade is highly variable, so the average grade is not yet known.

Sampling will need to be increased substantially to achieve more meaningful grade estimates, and this will also require testing in multiple locations. Accordingly, the Company is applying for additional permitting in order to

create a large exposed area of the structured veins, and prepare various samples in order to exhaustively investigate the specific Pt orientation in three dimensions. The positions hosting the best Pt grade are not yet known, both within the Pit One vicinity, or the wider Platina-Gillenbine area.

The Company has achieved a critical new milestone in the exploration at Fifield. It is contended that should sufficient Pt grade and tonnage be determined at Fifield and a suitable resource established, then a prospective mining operation would now have a means of more clearly delineating the best Pt positions, namely, those structural locations associated with the Chromite.

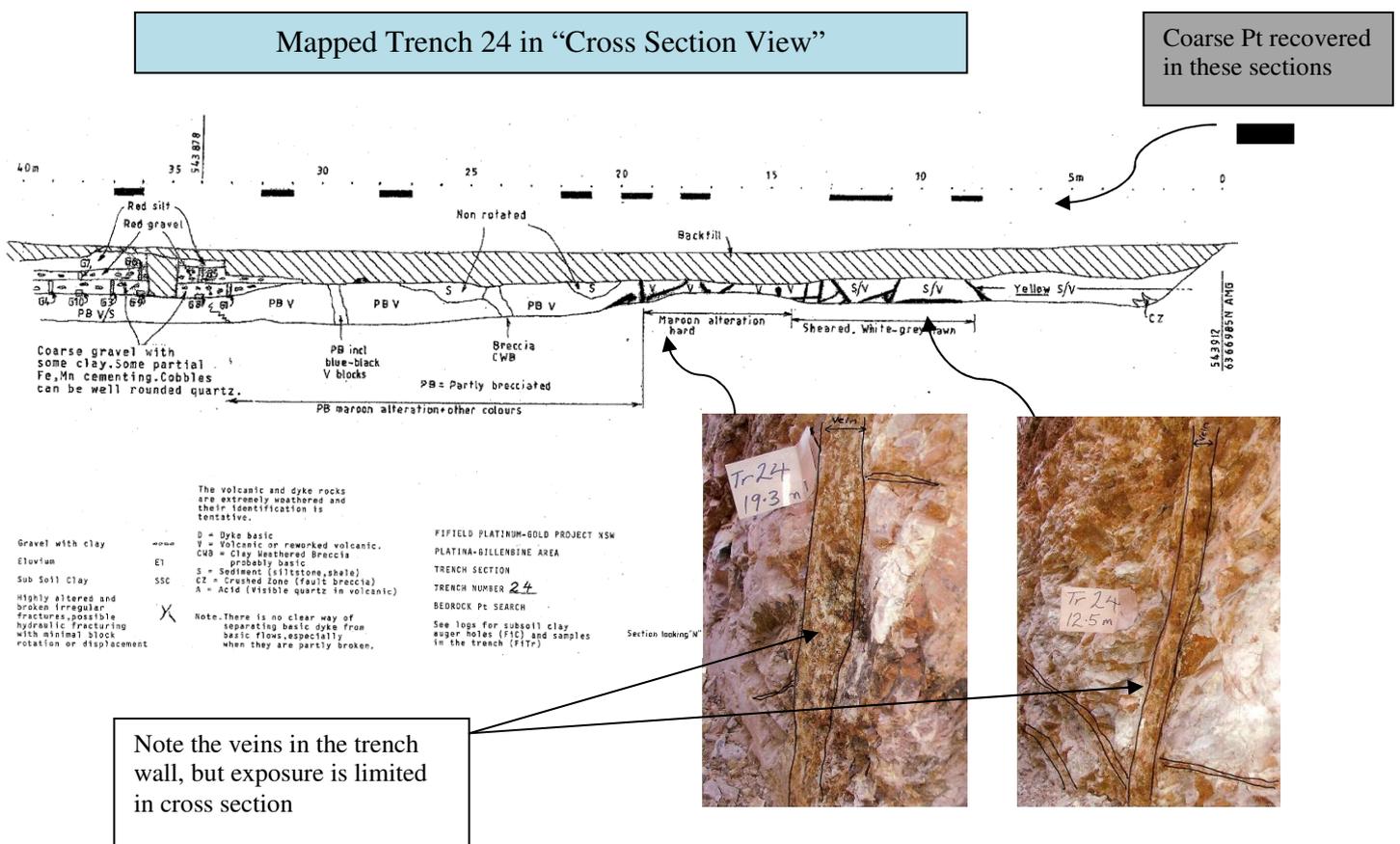
The Company had identified Chromite in its various work programs at Fifield previously. However, in light of what is now known about the newly discovered mineralised veins, and recognizing that the pathfinder element, Cr, is considerably more abundant than Pt itself, the Company will now critically re-examine previous sampling it has undertaken at Fifield to try and more accurately define the location and content of Cr in these earlier samples.

The trenching programs whilst considered a valuable technique, and are able to locate Pt in the bedrock, do have limitations. The cross sections in the trenches provide only small exposures of the Pt bearing veins and breccias, so the better Pt grade patches are not easily seen or sampled.

In order to overcome this limitation and observe the better Pt grade zones, large horizontal exposures of the bedrock (say 30m x 30m) are being planned. These exposures are expensive and represent a major disturbance of the land surface requiring changes to the permitting.

Given the successful discovery of the Pt vein structure within Rimfire's own freehold boundary, the Company will be endeavouring to create horizontal exposures in this current location (i.e. the vicinity of Pit One). A wider district sampling program using this type of large scale exposure would follow.

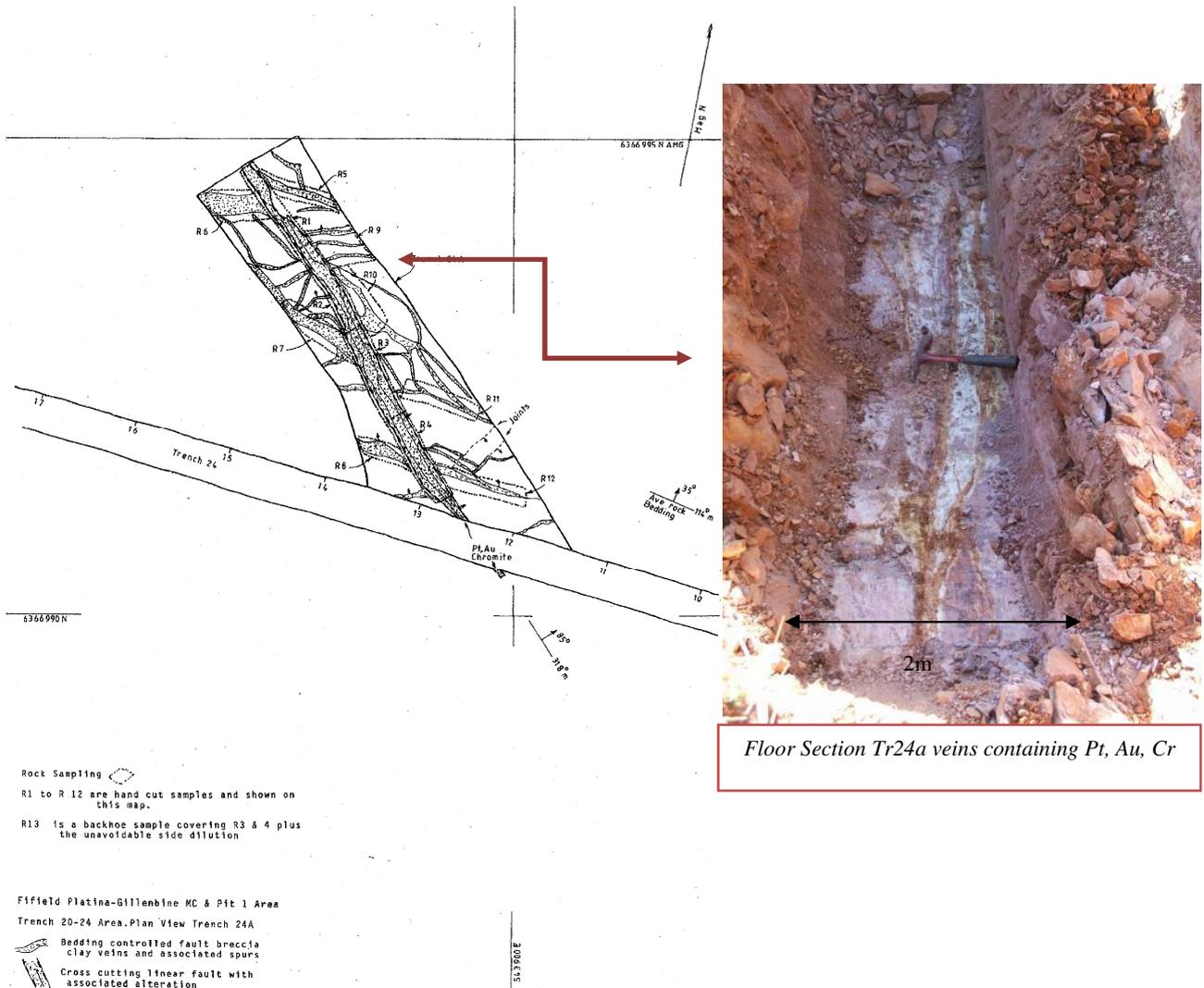
The Company is refining a strategy for establishing an application for a "bulk sampling assessment area" at Platina-Gillenbine, that would allow determination of Pt grade and distribution within the three key layers at this area, namely the soil profile, sub soil clay and the weathered bedrock, including the important shear zones and brecciated areas that are now known to exist.



Tr 24a was created to achieve a larger exposure and plan view of the vein section observed in the wall of Tr24.

The floor of Tr24a was mapped extensively, highlighting the complex network of veins. This exposure could not have been seen in a vertical cross section alone.

Mapped Trench 24 and 24a in "Plan View"



WORK PROGRAM AND RESULT SUMMARY FOR OTHER AREAS AT FIFIELD IN THE PERIOD

Exploration of a reconnaissance nature was also conducted at other locations within the Fifield district in the period.

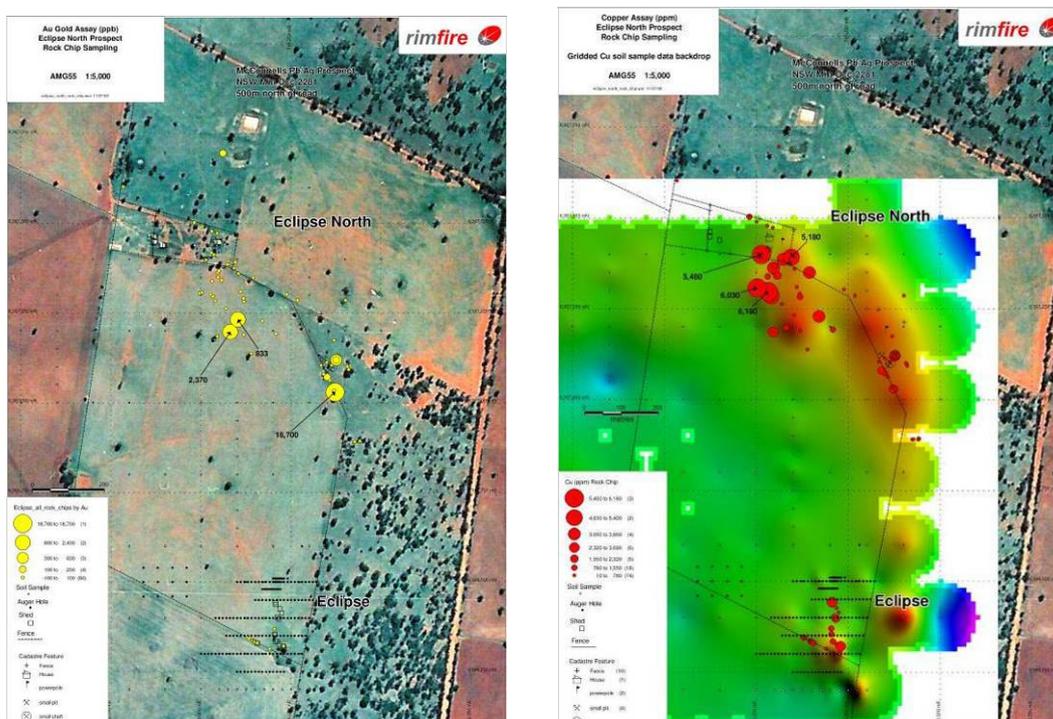
- ➡ Rock chip assays conducted on surface float, when combined with mapping have identified a significant Au and base metal anomaly at "Eclipse North". The best rock specimen yielded a repeatable independent laboratory assay of 18g/t Au.

- Multi element assay data and an extractable cyanide leach test of the contained Au were performed on the “Sorpresa” prospect mineralised section from the recent RC drill program (Fi47) and confirm that the Au appears to be highly extractable.
- Additional rock chipping, mapping and soil sampling programs have commenced north of the “North Eclipse” area

Eclipse North Area – Au and Base Metal Prospect

Extensive rock float examination, rock chipping and surface mapping of subcrop/outcrop at Eclipse North (approx. 1km north of Eclipse along the eastern rift margin at Fifield), has revealed the potential for a significant Au bearing zone. Assays of an initial set of specimen rocks has shown an elevation in Au and base metal, **including one high grade rock sample yielding 18g/t** (FiR312).

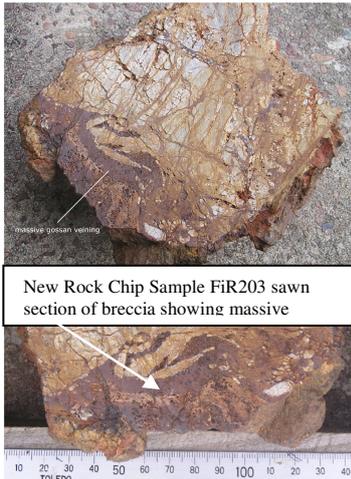
“Eclipse North” Reconnaissance Surface Sampling, Au and Cu Assays



The high Au area at “Eclipse North” contains numerous pieces of breccia with sulphide gossan disseminated and also in veins. The high Au assay rock sample is interpreted as pyrite gossan float and contained fine visible gold. **The strike length of gossan & brecciation extends over approximately 500m and is open to the north (under soil).**

The area further north again has several groups of historic workings with similar breccias, silicification and brecciated quartz veining, all with varying amounts of gossan.

This Au mineralisation is not a VMS style as at Eclipse South. It is hydrothermal-mesothermal style Au and base metals, associated with shearing and brecciation along a structural zone, possibly associated with a small blind high level diorite intrusive.



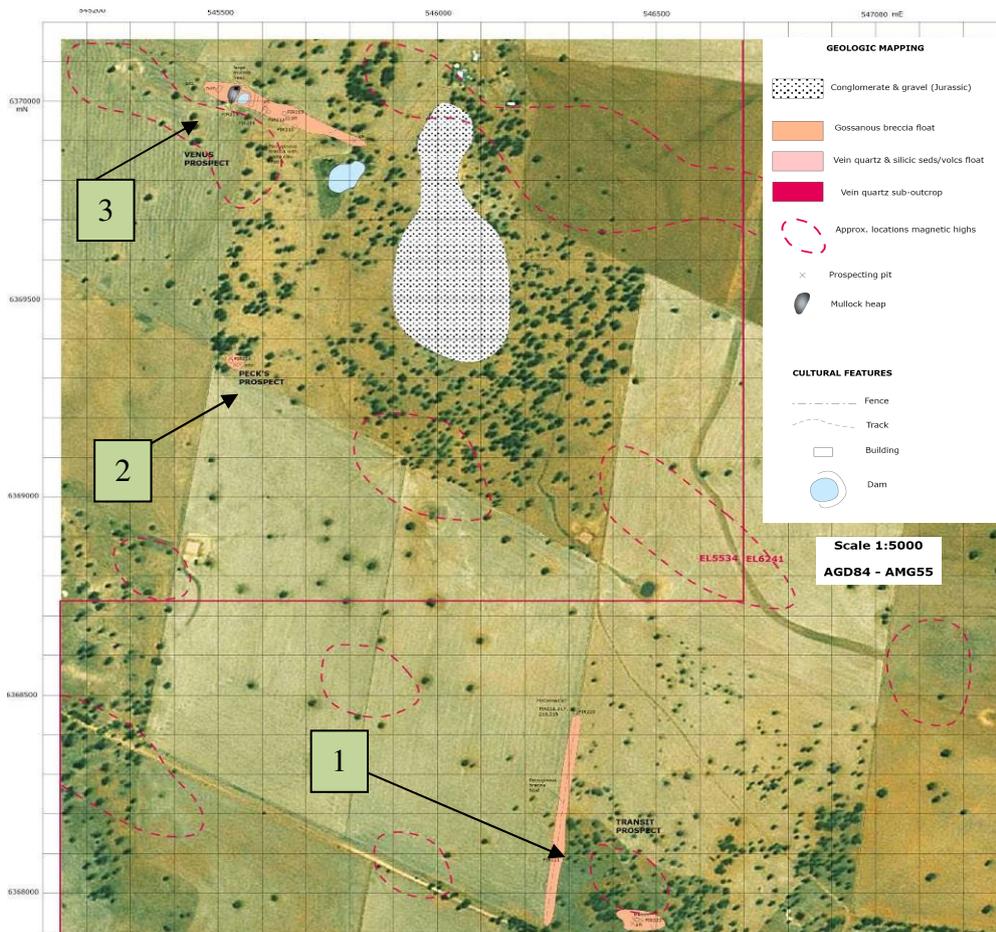
The mineralisation area looks similar to Sorpresa but the breccia zone could be wider, at 20-30m, but is yet to be determined. Both the breccia and vein quartz contain sulphides disseminated in fine veinlets and in more massive veins up to several cm thick. The lumps of massive gossan float seen at this initial stage appear to have originated from these thicker veins.

Whilst exploration is still preliminary, the results are encouraging. An additional set of samples and further mapping interpretation is currently being undertaken with results to follow.

Surface geochemistry has advanced the prospect so that the next stage of exploration to be undertaken will involve intensive auger drilling into the defined cohesive zone of gossan (weathered sulphide mineralization) and quartz veining coincident with the Au geochemical anomaly.

An additional rock chip sampling program was undertaken at “Eclipse North”, and other prospects in the vicinity in search of further base metal and Au anomalism. *Three new prospects have been surface sampled, based on the gossanous breccia float and are now named, “Transit (1)”, “Peck’s (2)” and “Venus (3)”, all located north of “Eclipse North”.*

New Prospects and Mapping north of “Eclipse North” – Reconnaissance Surface Sampling, Au and Base Metal Targeting



Sorpresa Prospect Extractable Au Analysis

The Company commissioned multi-element assays in an independent laboratory, to better understand the unique character of the mineralisation encountered at Sorpresa.

A cyanide leach test was conducted over a 6 to 24 hour period to determine the “extractable nature of the Au mineralisation”. The results were positive, indicating the mineralisation has readily extractable Au (>90% in 6 hours), and has minimal contaminant elements, therefore representing a suitable commercial target mineralisation.

The exploration program will now focus on determining the strike and extent of the mineralised zone using soil geochemistry and auger drilling.

Au and Pb also occur in historic workings 700m to the NE, and that these are adjacent to important historic mined platinum soil surface workings.

Rimfire also intends to examine the bedrock geochemistry between Sorpresa and these other workings.

EXPLORATION PLANNED AT FIFIELD FOR THE DECEMBER QUARTER

In the fourth quarter 2008, the Company intends to undertake the following activities at Fifield:

- Expose an area of 30m x 30m of bedrock associated with the geological control discovered in the Pit One vicinity and attempt large scale sampling of the expected Pt mineralised veins
- Detailed chemistry will be undertaken on the veins, to determine any other “marker” elements contained
- Undertake additional soil sampling programs and sub soil clay auger drilling at Platina-Gillenbine
- Open additional trenches as required at the Pit One area
- Use extensive auger drilling for further geochemical testing of bedrock at various prospects
- Soil sampling North of “Eclipse North” for Au and base metal orientation

Project and Mineralisation Background – Fifield NSW

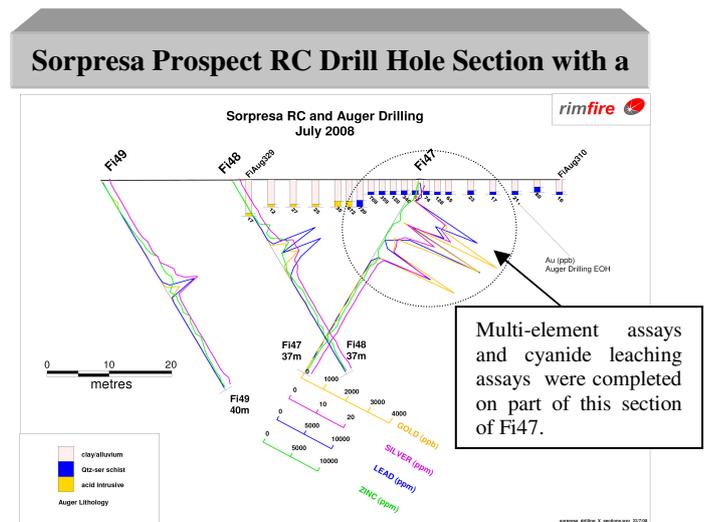
The systematic exploration by Rimfire within the immediate Fifield region has continued to develop a wide variety of mineralisation prospects. Each prospect has a strong surface expression, a highly relevant geological context and favourable development criteria.

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. 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 sub-volcanic 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 commercial mineralisation discovery in the Company’s view.

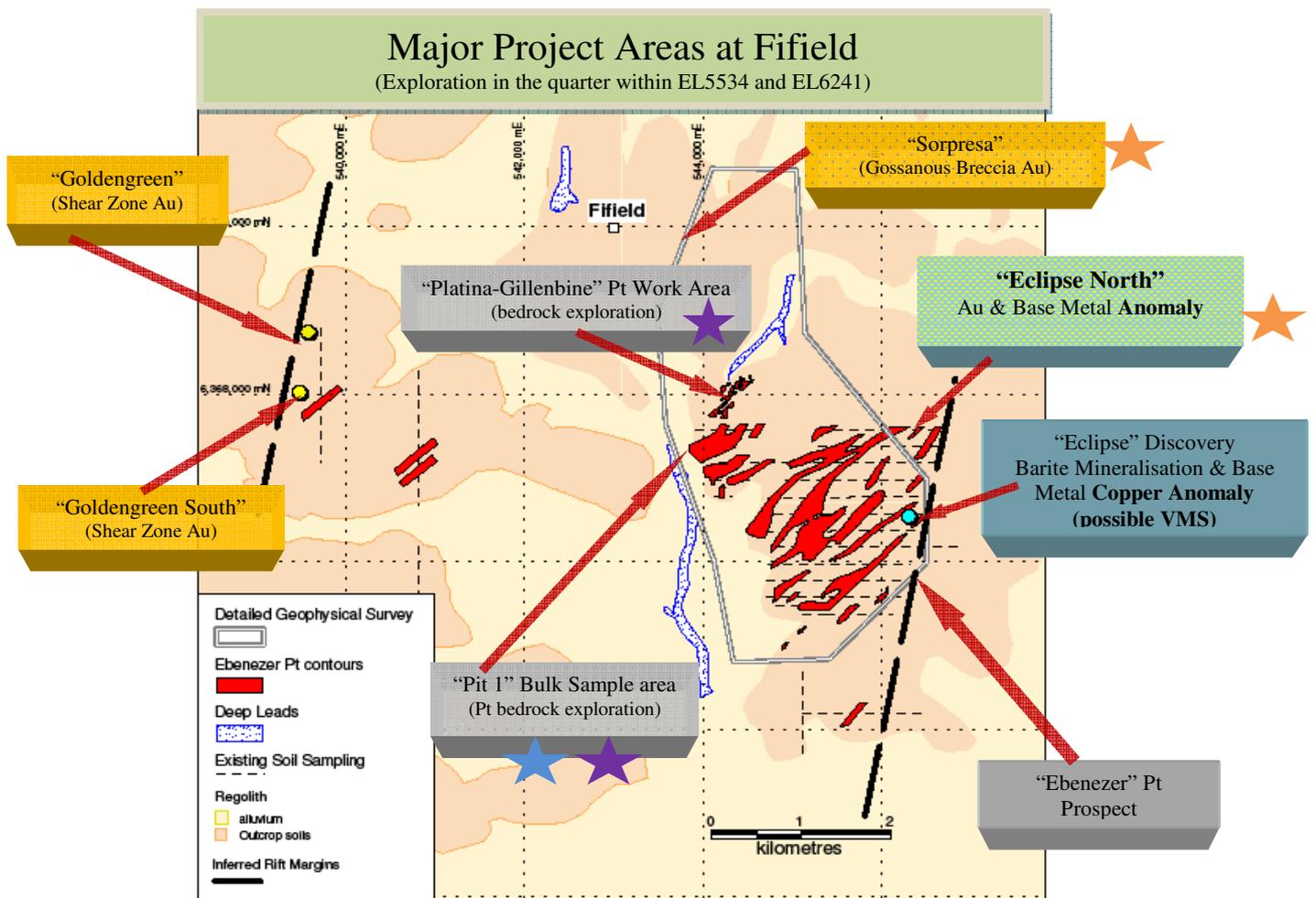
The major mineralisation target for exploration by the Company at Fifield remains focused on coarse grain Platinum.

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,



auger drilling and trenching to bedrock is an ideal way to prospect for the evidence of significant mineralisation in most instances.

Historic Pt soil mining at Fifield (circa. 1900~1930) has disturbed the most exposed areas of the land surface, thus requiring a customized soil sampling technique in many instances. The large scale of the Pt mineralisation at Fifield has meant that the Company has needed considerable near surface sample processing to define representative areas of bedrock Pt.



★ *Auger Drilling and Soil sampling*
 ★ *Rock Chip program and Soil*
 ★ *Trenching*

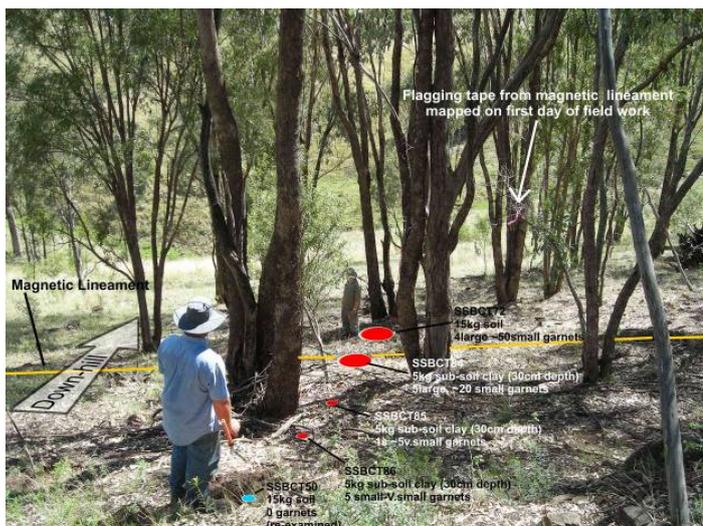
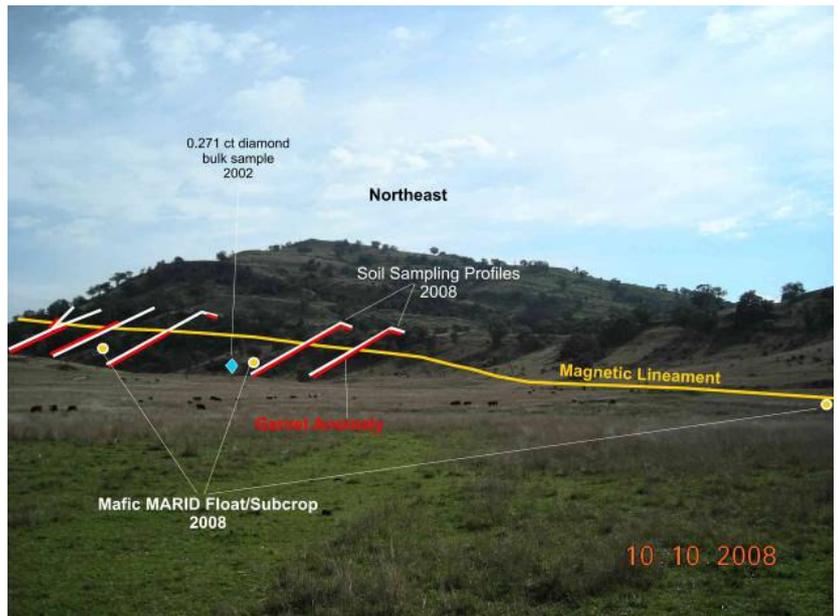
DIAMOND EXPLORATION QUARTERLY ACTIVITY SUMMARY

The Company commenced an additional soil sampling program within the Trevallyn Prospect at Bingara. This work involved surface and near surface sampling in the soils above the drainage of previously recovered indicator minerals and the 0.271 carat Trevallyn diamond (circa. 2002).

Similar soil sampling programs in the last 18 months have been successful in helping to isolate key diamond indicator mineral sources leading to the discovery of "Horton Valley No.1" and "Horton Valley No.2" "pipe structures" within the Diamond Project area at Bingara NSW.

Exploration conducted in the period included:

- ◆ Soil line sampling, designed to test "in situ" key indicator heavy minerals
 - 1073 kg of sample was collected, processed and the concentrates were examined under binocular microscope, with heavy mineral grains estimated.
- ◆ Geophysics review of airborne and ground data
- ◆ Detailed mapping and structural review
- ◆ Location additional MARID² rock float (first discovered 2007)
- ◆ *Definition of a wide garnet anomaly (>500m N-S).*
 - The garnet distribution may be partly related to a distinct magnetic lineament



The sampling program was able to locate substantial garnet indicator mineral anomalism in the steep topography to the east of the main drainage system at Trevallyn. A selection of garnets from the most relevant sample sites will be more closely examined with microprobe.

The MARID rock first discovered in 2007 was further located in the mapping program, and appears to be aligned with a magnetic feature identified at Trevallyn.

The garnet anomalism seems to extend to the top of the easterly ridge in many instances, suggesting the garnets are largely "in situ", close to their source.

Specific locations were further tested with shallow (30cm) subsurface sampling. These samples revealed the garnet anomaly was maintained. Depending on the results of the existing garnet chemistry at Trevallyn, and auger drill campaign to locate another potential pipe would follow at a later date.

² short for "mica, amphibole, rutile, ilmenite, diopside"

COMMODITY PRICING FOR THE SEPTEMBER 2008 QUARTER

The price of all commodities and precious metals traded sharply lower in the period. Platinum retreated to the USD1,000/ounce level and below as of mid October, in volatile trade (www.kitco.com). However, the significant decline in the Australian Dollar relative to the USD in the quarter offset to some degree the price fall in Platinum, in Australian Dollar terms.



CORPORATE ACTIVITIES

Tenement Position

Renewal was received for EL6241 at Fifield for a further two year period. A renewal application for EL5534 was submitted requesting a further two year period.

Cash, Facilities and Investments

As at 30th September 2008 the Company had approximately \$2.094 million in cash.

Issued Capital

The issued capital at the close of business at 30th September 2008 was:

306,726,107 ordinary shares

750,000 unlisted call options ex @ Nil cents expiring 15th January 2009

7,500,000 unlisted call options ex @ \$0.12 expiring 30th September 2010

JOHN KAMINSKY
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, with over 30 years experience in the mineral exploration and mining industry. Mr Plumridge is employed by Plumridge & Associates Pty. Ltd. Mr Plumridge has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which he is undertaking to qualify as a Competent Person 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 his information in the form and context in which it appears.

Appendix 5B

Mining Exploration Entity Quarterly Cash Flow Report

Introduced 1/7/96. Origin: Appendix 8. Amended 1/7/97, 1/7/98.

Name of entity

Rimfire Pacific Mining NL

ARBN

59 006 911 744

Quarter ended ("current quarter")

30 September 2008

Consolidated statement of cash flows

Cash flows related to operating activities	Current quarter \$A'000	Year to date (12 months) \$A'000
1.1 Receipts from product sales and related debtors	-	
1.2 Payments for		
(a) exploration and evaluation	(245)	(245)
(b) development	-	
(c) production	-	
(d) administration	(126)	(126)
1.3 Dividends received	-	-
1.4 Interest and other items of a similar nature received	33	33
1.5 Interest and other costs of finance paid	-	-
1.6 Income taxes paid	-	-
1.7 Other (provide details if material) – GST received	32	32
Net Operating Cash Flows	(306)	(306)
Cash flows related to investing activities		
1.8 Payment for purchases of:		
(a) prospects	-	-
(b) equity investments	-	-
(c) other fixed assets	(7)	(7)
1.9 Proceeds from sale of:		
(a) prospects	-	-
(b) equity investments	-	-
(c) other fixed assets	-	-
1.10 Loans to other entities	-	-
1.11 Loans repaid by other entities	-	-
1.12 Other –	-	-
Net investing cash flows	(7)	(7)
1.13 Total operating and investing cash flows (carried forward)	(313)	(313)
1.13 Total operating and investing cash flows (brought forward)	(313)	(313)

Cash flows related to financing activities			
1.14	Proceeds from issues of shares, options, etc.	-	-
1.15	Proceeds from sale of forfeited shares	-	-
1.16	Proceeds from borrowings	-	-
1.17	Repayment of borrowings	-	-
1.18	Dividends paid	-	-
1.19	Other (provide details if material) - Transaction costs related to rights issue in Dec 2007	(18)	(18)
Net financing cash flows		(18)	(18)
Net increase (decrease) in cash held		(331)	(331)
1.20	Cash at beginning of quarter/year to date	2,425	2,425
1.21	Exchange rate adjustments to item 1.20	-	-
1.22	Cash at end of quarter	2,094	2,094

Payments to directors of the entity and associates of the directors

Payments to related entities of the entity and associates of the related entities

		Current quarter \$A'000
1.23	Aggregate amount of payments to the parties included in item 1.2	77
1.24	Aggregate amount of loans to the parties included in item 1.10	-

1.25 Explanation necessary for an understanding of the transactions

\$77,000 was paid to Strategic International Ventures Pty Ltd for services rendered by the Executive Chairman and related parties for April 2008 to August 2008.

Non-cash financing and investing activities

2.1 Details of financing and investing transactions which have had a material effect on consolidated assets and liabilities but did not involve cash flows

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2.2 Details of outlays made by other entities to establish or increase their share in projects in which the reporting entity has an interest

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Financing facilities available

Add notes as necessary for an understanding of the position.

	Amount available \$A'000	Amount used \$A'000
3.1 Loan facilities	-	-
3.2 Credit standby arrangements	Nil	Nil

Estimated cash outflows for next quarter

	\$A'000
4.1 Exploration and evaluation	140
4.2 Development	-
Total	140

Reconciliation of cash

Reconciliation of cash at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts is as follows.

	Current quarter \$A'000	Previous quarter \$A'000
5.1 Cash on hand and at bank	69	124
5.2 Deposits at call	2,025	2,301
5.3 Bank overdraft	-	-
5.4 Other (provide details)	-	-
Total: cash at end of quarter (item 1.22)	2,094	2,425

Changes in interests in mining tenements

	Tenement reference	Nature of interest (note (2))	Interest at beginning of quarter	Interest at end of quarter
6.1	Interests in mining tenements relinquished			

6.2 Interests in mining tenements acquired or increased

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Issued and quoted securities at end of current quarter

Description includes rate of interest and any redemption or conversion rights together with prices and dates.

	Total number	Number quoted	Issue price per security (see note 3) (cents)	Amount paid up per security (see note 3) (cents)
7.1 Preference +securities <i>(description)</i>	Nil			
7.2 Changes during quarter (a) Increases through issues (b) Decreases through returns of capital, buy-backs, redemptions	Nil			
7.3 +Ordinary securities	306,726,107	306,726,107		
7.4 Changes during quarter (a) Increases through issues	Nil	Nil	Nil	Nil
Increases from exercise of options	750,000	750,000	Nil	Nil
(b) Decreases through returns of capital, buy-backs	Nil	Nil	Nil	Nil
7.5 +Convertible debt securities	Nil			
7.6 Changes during quarter (a) Increases through issues (b) Decreases through securities matured, converted	Nil Nil			

7.7	Options <i>(description and conversion factor)</i>	8,250,000	Nil	7,500,000 @ 12 cents each 750,000 @ nil cents each	<i>Expiry date</i> 30/9/2010 15/1/2009
7.8	Issued during the quarter	Nil	Nil	Nil	Nil
7.9	Exercised during quarter	750,000	750,000	750,000 @ nil cents each	<i>Exercise date</i> 11/7/2008
7.10	Expired during quarter	6,000,000	6,000,000	6,000,000 @ 12 cents each	30/09/2008
7.11	Debentures <i>(totals only)</i>	Nil	Nil		
7.12	Unsecured notes <i>(totals only)</i>	Nil	Nil		

Compliance statement

- 1 This statement has been prepared under accounting policies which comply with accounting standards as defined in the Corporations Law or other standards acceptable to ASX (see note 5).
- 2 This statement does give a true and fair view of the matters disclosed.

Sign here: 

 (Chairman)

Date: 24th October 2008

Print name: **JOHN KAMINSKY**

Notes

- 1 The quarterly report provides a basis for informing the market how the entity's activities have been financed for the past quarter and the effect on its cash position. An entity wanting to disclose additional information is encouraged to do so, in a note or notes attached to this report.
- 2 The "Nature of interest" (items 6.1 and 6.2) includes options in respect of interests in mining tenements acquired, exercised or lapsed during the reporting period. If the entity is involved in a joint venture agreement and there are conditions precedent which will change its percentage interest in a mining tenement, it should disclose the change of percentage interest and conditions precedent in the list required for items 6.1 and 6.2.
- 3 **Issued and quoted securities.** The issue price and amount paid up is not required in items 7.1 and 7.3 for fully paid securities.
- 4 The definitions in, and provisions of, *AASB 6: Exploration for and Evaluation of Mineral Resources* and *AASB 107: Cash Flows Statements* apply to this report.
- 5 **Accounting Standards** ASX will accept, for example, the use of International Accounting Standards for foreign entities. If the standards used do not address a topic, the Australian standard on that topic (if any) must be complied with.