



QUARTERLY EXPLORATION AND ACTIVITIES REPORT

(For the period 1st July 2015 to 30th September 2015)

Sorpresa RC Drilling Provides High Grade Gold Results

Regional discovery focus extends copper and gold signature

Highlights - Sorpresa

- At Roadside area within Sorpresa, a best hole Fi 0528 returned 14m @ 5.24g/t Au & 156g/t Ag from 21m (incl. 3m @ 17.38g/t Au & 243g/t Ag)
- RC drilling at Sorpresa in the known mineralised zone at Trench 31 area and has revealed gold shoots with consistent high grade results
- Best 1m intervals (>30g/t Au) in the oxide zone returned at Sorpresa, Trench 31 area, included:
 - Fi 0548 with 1m @ 53.30g/t Au & 74g/t Ag; Fi 0658 with 1m @ 50g/t Au & 55g/t Ag
 - Fi 0662 with 1m @ 39.6g/t Au & 58g/t Ag; Fi 0659 with 1m @ 33.7g/t Au & 31g/t Ag
- Further metallurgy at Sorpresa in the oxide and primary zones provided promising gravity, floatation and leaching recoveries. Conceptual plant and process options are being reviewed.

Highlights - Regional Activities

- The Eclipse Trend is now 3km in length with new gold anomalism confirmed in auger and RC drilling which extends the known position 800m to the south
- The Eclipse Trend to Yoes area (4km²) results from RC drilling, soil and auger are encouraging. This area may represent the upper or outer parts of a much larger copper-gold system
- Broader deployment (km scale) geophysics programs (EM and 3DIP) will be considered to assist discovery of potential large scale copper-gold mineralisation at Eclipse Trend and Yoes areas
- Regional soil programs and mapping were conducted north of Eclipse Trend & Yoes Trend, with encouraging mineralized float identified

Highlights - Corporate and other activities

- The AusIndustry R & D submission was successfully concluded which will provide the Company with \$1.05m in the first week November. These funds provide additional cash reserves.
- Site visits and numerous presentations were made including discussions for potential partnership opportunities
- The Company will be awarded a new exploration license (200km²) east and south of Yoes, to include areas deemed to be prospective for copper, based on the recent work at Yoes.
- Further refinement of the geological model concepts has occurred and additional targets have also been identified, based on geochemistry, mapped geology and geophysics

Rimfire Pacific Mining NL (ASX:RIM) (“Rimfire” or “the Company”) is pleased to provide a summary of activities completed during another productive quarter at Fifield, NSW.

The high grade sulphide rich Cu/Au intersections of 4m @ 6.5% Cu & 2.3g/t Au & 10 g/t Ag from 119m (incl. 2m @ 10.95% Cu & 3.87g/t Au & 16.6g/t Ag from 120m in Fi0588) announced in RC drilling at Eclipse South (ASX 22nd July 2015) validates the Company’s strategy of operating a regional prospect portfolio of discovery opportunities, in parallel to the growth and economic assessment of the existing Sorpresa resource.

Economic assessment of the Sorpresa Resource (inferred and indicated resource of 6.4Mt for 7.9Moz of silver and 125kOz of gold (at 0.5g/t Au & 25g/t Ag cutoff)) continues with shallow RC drilling that is testing the grade and continuity of high grade gold and silver shoots identified within the Trench 31 and Roadside North areas including.

CEO and Managing Director, John Kaminsky commented:

“The Company had another positive quarter in its pursuit of discovery growth in its regional activities and developing a better understanding of the gold distribution in the Sorpresa gold and silver resource higher grade lens areas.

“The Trench 31 and Roadside area results demonstrate good continuity within the higher grade gold (and silver) lenses in the oxide zone (0~60m). We have gained important insight, where the high grade shoots seem to occur in 3 discrete areas, with varying dips.

“The nett result is we now have additional understanding which may assist in identifying and defining this higher grade material both within the resource area and projected into un-drilled areas. More locations are planned for drilling at Trench 31 and Roadside accordingly.

Regional Exploration RC Drilling

“The Company strategy continues to focus on building its regional discovery inventory within a 6km radius of Sorpresa over the next 12 months. Priorities continue to emerge from a combination of ongoing geochemical sampling, as extensions to current anomalous trends, as well as promising geophysical targets.

“During the reporting period the Company followed up the good results of the previous quarter and undertook RC drilling on a range of locations using a contracting RC drill rig which completed 19 holes for 2860m. Target areas and focus included:

- ✓ The Eclipse Trend, especially Eclipse South where high grade Cu/Au was reported in Fi 0588
- ✓ Magnetic and gravity features east of Sorpresa
- ✓ An interpreted potential radial structure located south of Yoe’s
- ✓ A first pass test of a soil anomaly at Eclipse South Extended
- ✓ In addition RAB drilling was conducted across potassic alteration at Golden Chrome

“The work in the last two quarters at Eclipse Trend-CO2-Yoes confirms that we have important copper-gold anomalism on an extensive (km) scale (see Map [1], page 3), with potential for ore grades as shown with 4m @ 6.5% Cu. Further work is required to better understand the geology and context, whilst recognising that there appears to be a large mineralising system operating at a district scale.

“The Sorpresa resource is a possible peripheral mineralisation event to a much larger mineralising system operating at Fifield. With this in mind, we will be pursuing a number of key concepts over the coming months, to seek the best areas containing the strongest mineralisation potential within the copper-gold footprint currently identified.

“The dual company strategy to assess the Sorpresa gold-silver resource in parallel with the regional opportunities, which include Eclipse and Yoes is helping to advance the entire project area.

“The contractor drilling represented the completion of the funding from the NSW New Frontiers Drilling Grant which provided a net benefit of \$175,000 to the company over the last 12 months.

“A regular newsflow is expected from the Company in the ensuing period, where we look forward to reporting further results and milestones as they occur. The Company remains active with its work programs, looking to provide further gains on its project areas, to the benefit of shareholders. A presentation in July ([click to view](#)) provided an update on the Company and was well received at the NSW Government sponsored Resources Conference held in Sydney.”

Sorpresa RC Drill program comments - assessing high grade lenses

Currently the Sorpresa Deposit comprises 6.4Mt for 7.9Moz of silver and 125kOz of gold (at 0.5g/t Au & 25g/t Ag cutoff) as an Inferred and Indicated Mineral Resource, equating to approximately 250,000oz gold equivalent. The Company believes that potential upside exists at Sorpresa by defining additional resources in under explored areas along strike to the south and at depth, down dip to the east and also in gap areas between mineralised domains.

During the quarter a program of 37 holes for 1,524m (Fi528-531, Fi537-Fi550, Fi560-563) of shallow RC drilling was completed over high grade gold and silver areas within the Trench 31 and Roadside portions of the Sorpresa Resource (Figure3). The table of significant results (Table1) highlights a number of shallow and highly mineralised intersections indicating broad zones of gold and silver mineralisation.

Of significance is both the width and grade of the intervals, some of which fall outside of the known resource. These areas of close spaced 10m x 10m drilling form part of an ongoing assessment to provide better understanding on the mineralisation orientation, structure and geology within Sorpresa. The knowledge being gained adds to the Company's capacity to seek further upside within the current Sorpresa resource for gold and silver.

Table 1: September Quarter: Significant Assay Results from Sorpresa RC drilling

Hole (location)	Main Intersection	Including Intersection
Fi 0528 (Roadside)	14m @ 5.24g/t Au & 156g/t Ag from 21m	Incl. 1m @ 0.56g/t Au & 592g/t Ag from 21m <u>and</u> Incl. 3m @ 17.38g/t Au & 243g/t Ag from 26m (and also incl. 1m @ 22.60g/t Au & 346g/t Ag from 27m)
Fi 0530 (Roadside)	8m @ 0.49g/t Au & 251g/t Ag from 48m	Incl. 2m @ 0.55g/t Au & 577g/t Ag from 53m
Fi 0529 (Roadside)	2m @ 0.33g/t Au & 52g/t Ag from 23m <u>and</u> 3m @ 1.67g/t Au & 322g/t Ag from 27m <u>and</u> 7m @ 0.73g/t Au & 21g/t Ag from 33m	Incl. 1m @ 4.04g/t Au & 879g/t Ag from 28m
*Fi 0662 (Trench31)	3m @ 20.42g/t Au & 26g/t Ag from 20m <u>and</u> 1m @ 5.47g/t Au & 53g/t Ag from 36m <u>and</u> 7m @ 0.50g/t Au & 5g/t Ag from 38m <u>and</u> 4m @ 5.34g/t Au & 18g/t Ag from 45m	1m @ 39.6g/t Au & 58g/t Ag from 21m <u>and</u> - 1m @ 1.55g/t Au & 4g/t Ag from 40m <u>and</u> 1m @ 16.75g/t Au & 27g/t Ag from 46m
*Fi 0548 (Trench31)	2m @ 28.65g/t Au & 53g/t Ag from 39m	1m @ 53.30g/t Au & 74g/t Ag from 39m
*Fi 0658 (Trench31)	2m @ 26.94g/t Au & 36g/t Ag from 37m	1m @ 50.00g/t Au & 55g/t Ag from 37m
*Fi 0663 (Trench31)	10m @ 2.29g/t Au & 12g/t Ag from 21m <u>and</u> 7m @ 3.37g/t Au & 14g/t Ag from 35m	1m @ 7.96g/t Au & 66g/t Ag from 21m <u>and</u> 1m @ 11.55g/t Au & 24g/t Ag from 36m
*Fi 0659 (Trench31)	5m @ 8.73g/t Au & 22g/t Ag from 47m <u>and</u>	1m @ 33.70g/t Au & 31g/t Ag from 47m
*Fi 0547 (Trench31)	3m @ 8.08g/t Au & 11g/t Ag from 15m	2m @ 11.25g/t Au & 14g/t Ag from 15m
Fi 0526 (Trench31)	3m @ 4.39g/t Au from 4m <u>and</u> 3m @ 3.49g/t Au from 10m	Incl. 1m @ 8.07g/t Au from 5m <u>and</u> Incl. 2m @ 4.95g/t Au from 11m
*Fi 0660 (Trench31)	3m @ 3.92g/t Au & 47g/t Ag from 54m	1m @ 5.52g/t Au & 73g/t Ag from 54m

* Drilled in the Sept. Quarter with results announced in October

The results of the Sorpresa high grade infill drilling are summarised as:

- ✓ Results compare favorably with surrounding intersections at Sorpresa and confirm the continuity of mineralisation
- ✓ This drilling improves the understanding of the orientation and controls operating on the gold and silver systems
- ✓ The Company will continue assessing the better parts of the Sorpresa mineralisation in the oxide zone aiming to increase grades, ounces and the commercial context.

- ✓ This completed drill program (and subsequent work to follow) will contribute to parts of the resource at Sorpresa moving to measured status in due course.
- ✓ Metallurgical assessment is continuing on the oxide and primary zones at Sorpresa, looking at gravity, flotation and heap leach recoveries in order to define optimal processing options.

Sorpresa additional metallurgy

Positive results received to date on the preliminary laboratory scale metallurgy test work recoveries for gravity, flotation and coarse bottle roll tests, the equivalent of heap leach, indicate the potential for more than one processing option for oxide and sulphide samples tested.

Regional RC Drilling and Exploration programs

Extensive work continued within the 6km radius of the Sorpresa pursuing regional discovery opportunities, a brief summary is as follows:

- RC hole Fi0588 (July Report) assayed 4m @ 6.5% Cu & 2.3g/t Au & 10 g/t Ag from 119m (incl. 2m @ 10.95% Cu & 3.87g/t Au & 16.6g/t Ag from 120m) was followed up with down hole geophysics and additional RC drilling
- Regional RC drilling programs completed for 2860m during the reporting period targeting Cu/Au anomalism along the Eclipse Trend, Sorpresa East extensions and interpreted buried porphyry target at Yoe’s. The Company believes the results to date indicate broad kilometre scale, regional copper and gold anomalism and importantly, potential for ore grade intersections.
- Encouraging gold values over a new 350m of strike (including >1g/t Au) in soil auger sampling potentially extends the Eclipse Trend by 800m to the south
- Significant results are highlighted below and the Company is now considering plans to pursue these intersections using geophysical applications which may assist in determining the extent and orientation of the mineralised zones so that further strategically directed drilling can be completed.

Table2: Eclipse South RC Drilling Significant results

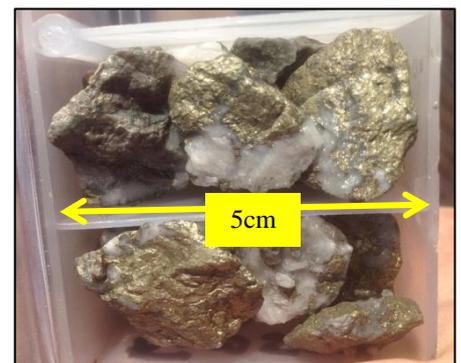
Hole (location)	Main Intersection	Including Intersection
Fi 0604 (Eclipse Sth)	1m @ 0.94g/t Au from 47m 1m @ 1.02g/t Au from 96m 1m @ 3.33g/t Au from 143m & 0.1% Cu	
Fi 0606 (Eclipse Sth)	6m @ 0.56g/t Au from 23m 14m @ 0.48g/t Au from 70m	1m @ 2.02g/t Au from 25m 1m @ 1.96g/t Au from 70m
Fi 0609 (Eclipse Sth)	10m @ 0.26g/t Au from 13m 1m @ 0.54% Cu from 77m	

Eclipse Trend

The focus of RC drilling along the Eclipse Trend was the high grade intersection reported from the Eclipse South area which returned significant copper and gold values of 4m @ 2.3 g/t Au & 6.5% Cu from 119m in Fi0588.

This intersection demonstrates the potential for ore grade Cu/Au intersections away from the Sorpresa Resource and was also recognised as a new style of mineralisation, part epithermal quartz sulphide vein, and part massive sulphide or a variant there of.

The Eclipse South drilling targeted the significant zone of strong quartz, chalcopyrite mineralisation in RC hole Fi 0588. The quartz/copper zone is in a geologically complex structural location and follow up drilling confirmed the presence of Au and Cu values in broad zones including 10m @ 0.26g/t Au from 21m in Fi 0609.



Eclipse South – Chalcopyrite in Hole Fi 0588 Assay 4m @ 6.5% Cu & 2.3g/t Au from 119m

The Eclipse South Extended prospect represents the southern extension of the main NNE trending Eclipse Trend and is located some 800m along strike to the south of the nearest soil/auger anomalies. Preliminary auger geochemistry on 50m spaced lines and 10m hole spacing (185 holes @ FiAUG4446-4630) indicate shallow cover material overlying a 350m long NE-SW orientated Au in auger bedrock anomaly with a peak value of 1.1g/t Au with associated Cu, Pb and Zn anomalous geochemistry.

This under explored zone, lies adjacent to a magnetic high and at the point of intersection between the main NNE trending regional structure associated with the Eclipse Trend mineralisation and a strong NE magnetic trend which forms the main gold mineralised trend at Yoe's Prospect, some 3 kms to the north east.

Two shallow RC holes for a total of 110m (Fi0619-Fi0620) were drilled beneath the peak Au in auger value as a preliminary test of the subsurface geology, which in this area consists of a highly weathered mafic intrusive into fine grained sericite, altered sediments and a minor muscovite rich felsic intrusive.

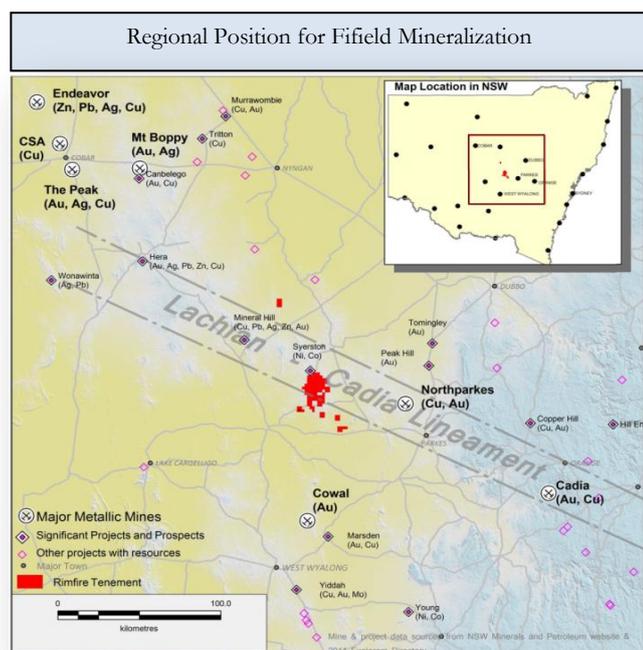
Results include a 4m composite result of 4m @ 0.36 g/t Au from 28m in Fi0619 which relates to limonitic boxworks after pyrite within a silicified siltstone host. Additional auger geochemistry is planned in this area to determine the extent of the anomalism and assist in target generation. Drill Locations are shown in Figure 5.

The Eclipse North area comprises a greater than 800m long Au-Cu (\pm Bi-Ag-Ba) auger anomaly (>20ppb Au, with peak values of 550ppb Au & 1,650ppm Cu), interpreted as a Cu-Au rich epithermal lode which remains open to the south. 3 RC holes for 480m (Fi0611-Fi0613) were completed testing the down-dip continuity of pervasive chlorite, sericite and pyrite alteration which was interpreted as increasing in intensity with depth to the east and associated with anomalous gold and copper values. Several anomalous Cu/Au intersections were recorded associated with strong chlorite, sericite and pyrite, with associated hematite-silica alteration and minor chalcopyrite veining. Significant results include:

- 2m @ 0.34 g/t Au & 0.12% Cu from 159m in Fi0611
- 4m @ 0.22 g/t Au & 0.24 % Cu from 97m in Fi0612

Summary Comments - Eclipse Trend

The Eclipse Trend extends over 3 kms along a major NNE trending structure which is host to a variety of mineralisation styles associated with strongly silicified chlorite, sericite, pyrite altered sediments and volcanoclastics. The entire length of the Trend is outlined by significant Au, Cu and base metal geochemical anomalism along with epithermal alteration and veining at surface, giving rise to rock chips with high grade Au and Cu values.



RC drilling to date has been targeted across the best of the geochemical anomalies and has several returned several +1 g/t Au drill intercepts within a broader halo of lower grade Au and Cu values dipping steep to moderately to the east.

The highlight to date has been the **4m @ 6.5% Cu & 2.3g/t Au & 10 g/t Ag** from 119m in Fi0588 which indicates that within the extensive alteration and geochemical anomalism there is potential to find ore grade intersections relatively close to the surface.

The position of these potential zones of higher grade mineralisation appear to be related to the intersection of the main mineralised N-NE trending structures with WNW trending LTZ orientations.

Regionally the LTZ is a major structural corridor which is host to several world class Cu/Au ore bodies including the Cadia Valley (Newcrest Mining NL) and the Company believes that interaction points within its tenement package have the potential to host significant mineralisation.

Further exploration incorporating geochemistry, petrology and geophysics is required to assist in vectoring into target areas that have the potential to host high grade Au/Cu mineralisation.

Sorpresa East Down-Dip Extensions

A Combination of magnetics, gravity and IP geophysical data was assessed in association with previous drilling results, to identify a number of step out drill targets on the periphery and outside of the Sorpresa Resource (Figure 6). Four vertical holes (Fi0615 to Fi0618) for a total of 642m were drilled to the east of Trench 31 targeting down dip extensions of the silicified carbonaceous pyritic black shale/chert which is host to the Sorpresa mineralisation.

The drilling results east of Trench 31 indicated that the Sorpresa stratigraphy is complicated by numerous intrusive volcanics and felsic porphyry bodies into the host carbonaceous shale/chert unit. Where the continuity of the carbonaceous black shale/chert was confirmed by drilling, a number of low grade gold and silver values were returned indicating potential for additional locations along the host horizon where folding and faulting may provide the plumbing system for additional mineralisation.

The best results from East Sorpresa included:

- Fi0615: 2m @ 0.24g/t Au and 35 g/t Ag from 112m;
- Fi0617: 1m @ 0.55 g/t Au and 37 g/t Ag from 68m.

Yoe's Gold Target

At the Yoe's Gold Target drilling a single line of 5 RC holes for 332m (Fi0595-Fi 599) was completed in the June quarter but pending results were released outside of the reporting period (22nd July2015). The drilling which was completed over an area previously outlined by gold in auger geochemistry which extends for 700m along a NE striking trend, beyond previous RC drilling. The single line of holes was designed to test the northern extension of this anomalous zone which in this location, was highlighted by peak Au in auger values of 1620ppb Au. This position also appears to be at the intersection point of a major N-S and NE-SW trending structure and separates ferruginous sediments in the west from more andesitic-mafic volcanics and sediments to the east.

Geological logging indicated fine grained and strongly altered siliceous chlorite, carbonate andesitic volcanics with finely disseminated pyrite and minor quartz veining.

Significant Au results include;

- Fi 0596: 2m @ 2.23g/t Au from 17m, incl. 1m @ 4.19g/t Au and 2m @ 0.36g/t Au from 28m
- Fi 0597: 7m @ 0.58g/t Au from 0m, incl. 1m @ 1.02g/t Au from 1m & 1m @ 1.43g/t from 4m

Yoe's Radial Target

A single vertical hole was drilled to examine a feature in the potassium radiometric dataset at Yoe's Lookout. The dataset showed a compelling arrangement that has been interpreted to represent radial and concentric fractures potentially due to a hidden intrusive. This feature appeared to have some influence on location of gold in soil anomalism that had been targeted at the Yoe's Lookout gold target and was also overlapping the Yoe's Lookout magnetic body (Figure 7).

The drilling intersected strong chlorite altered andesitic volcanics with zones of silica, sericite and carbonate alteration. Some minor more felsic intrusives were also noted and minor chalcopyrite and pyrite alteration were also logged with slight elevation of Cu values to a peak of 1m @ 0.46% Cu from (fp) XRF readings. Petrological assessment may be required to confirm the origins and genesis of the host lithologies and implications for mineralisation.

Comments on Copper Potential at Fifiield

The drilling completed during the reporting period was successful in defining Cu-Au anomalism along the Eclipse South Trend and it is evident that significant zones of hydrothermal alteration, brecciation and epithermal style quartz-carbonate-sulphide veining are present.

The structural complexity associated with the high grade Cu/Au intersection in Fi0588 has meant that such fault intersection points need to be investigated along the length of the Eclipse and other regional trends. The Company believes there is potential for additional high grade Cu/Au intersections, as indicated by Fi0588 and that the extensive brecciation and hydrothermal alteration may represent the upper or outer parts of a much larger Cu-Au system concealed at depth.

Geophysics (3D IP &/or EM) and deeper RC drilling (100m-300m deep holes) may assist to test developing concepts and will be considered in due course. The potential remains to discover high grade Au-Cu shoots along strike and at shallow depths where the mineralisation remains open.

Table 2: Summary of RC Drilling completed/reported in the quarter

Area of Drilling	Holes	Metres	Summary Comments
Sorpresa (Tr31, Roadside)	37	1,524	Better defined Au and Au/Ag lenses/shoots, coherent and at shallow depths
East Sorpresa	4	642	Mineralised planes continue East, Au & Ag encountered
Eclipse Trend (4 areas)	19	2,321	Extension of Eclipse Trend with Au in auger 800m to the south, Au, Cu values elsewhere
Yoe's Radiometric target	1	200	No result was achieved, the potential porphyry intrusive feature is only partly tested , still valid for pursuit of Au, Cu
Total	61	4,687	

RAB Drilling at Golden Chrome Prospect

A RAB drilling program was initiated at the Golden Chrome prospect some 2 kilometres south of Sorpresa where potassic alteration is thought to be associated with felsic intrusives and coincident with the strike of the Platina Au and Pt Lead. A total of 13 holes for 490m on a single overlapping line was partially completed and no significant gold assays were returned.

Looking forward into the next quarter

Looking at the period going forward a number of initiatives are under consideration or implementation as follows:

- Ongoing definition of near surface high grade Au/Ag zones at Sorpresa
- Further resource reclassification and discovery expansion review of the Sorpresa gold and silver resource
- Interpretation and modelling of recent RC drilling in Au/Ag zones at Sorpresa
- Targeted soil and auger sampling over the Eclipse Trend and other prospective regional targets
 - o extensions to Eclipse Trend (Transit and others)
 - o regional geological areas of interest including Yoes North
- RC testing of selected regional geochemical targets
- Planning of regional geophysics 3DIP/ EM to define drill targets
- Review of metallurgical testwork on oxide and sulphide mineralisation with regard to optimising processing option

COMMODITY PRICING FOR THE SEPTEMBER 2015 QUARTER

As at 29th October 2015, the metal prices were (www.kitco.com), in New York based on closing Ask in USD were as follows:

Gold	USD\$1147/oz
Platinum	USD\$15.70/oz
Silver	USD995/oz

CORPORATE ACTIVITIES

Tenement Position

An application for additional tenement area to the east of the Yeos Cu Target is close to grant.

Cash, Funding, Facilities and Investments

The Company believes that its financial position continues to be well monitored and maintained. As at 30th September 2015 the Company had \$.507m in cash, plus inflow expected of \$1.046m (Ausindustry) in early November 2015.

Available draw down of \$175,000 Drilling Grant

The Company has completed and submitted the final report for the \$175,000 grant previously awarded by NSW Department of Trade & Investment as a Co-operative Drilling Grant under the “New Frontiers” program initiative. The program is a “dollar for dollar” matching program, where the Company undertakes the equivalent drilling expenditure to the grant value received.

The Company will be applying the next available drilling grant which is open for submissions later in December 2015.

A handwritten signature in black ink, appearing to read 'J. Kaminsky', with a stylized flourish underneath.

JOHN KAMINSKY
CEO and Managing Director

Figure 1: Fifield Prospect and Concept Map with location of the Sorpresa Resource and Completed RC Drilling (reported in October 2015)

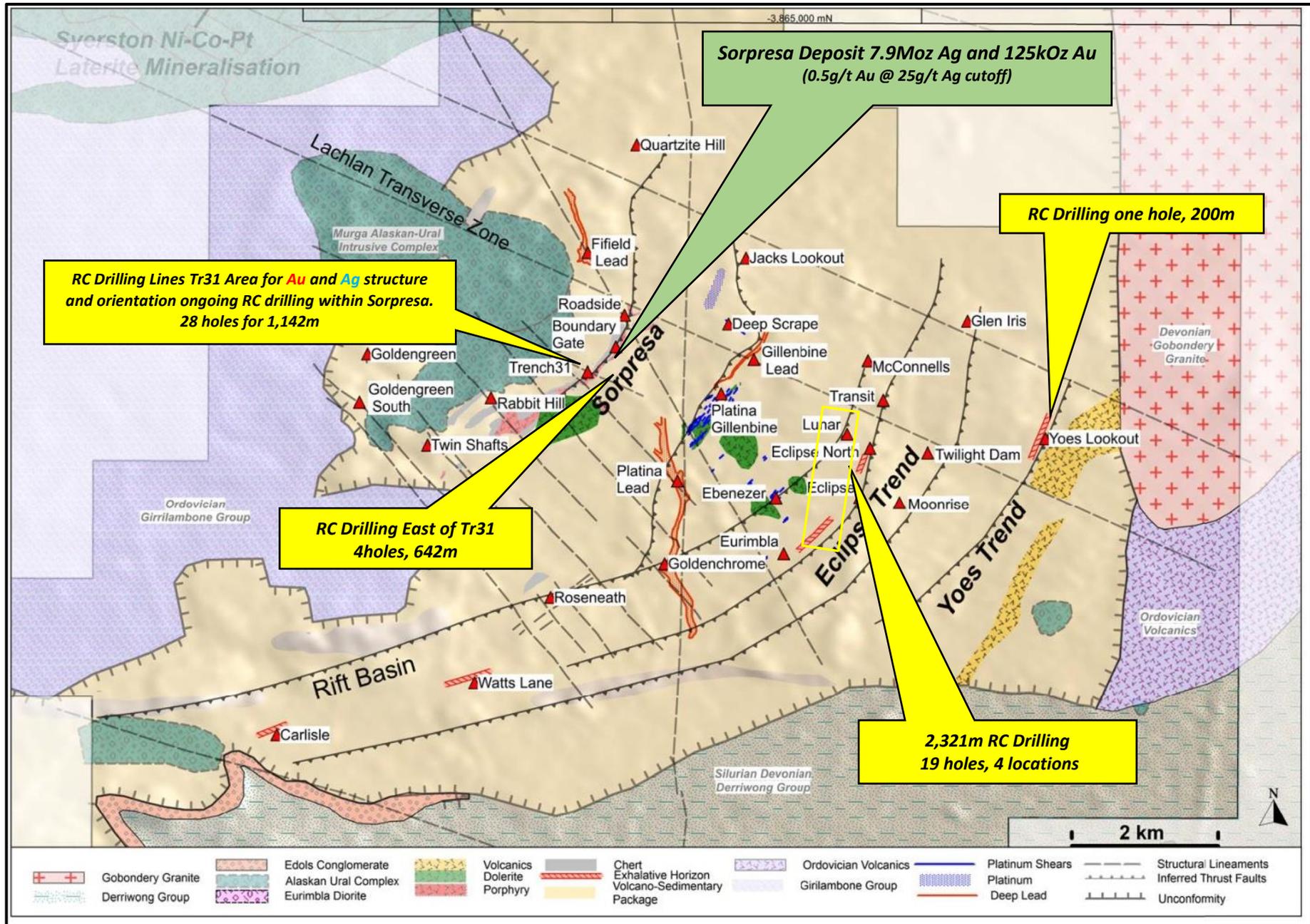
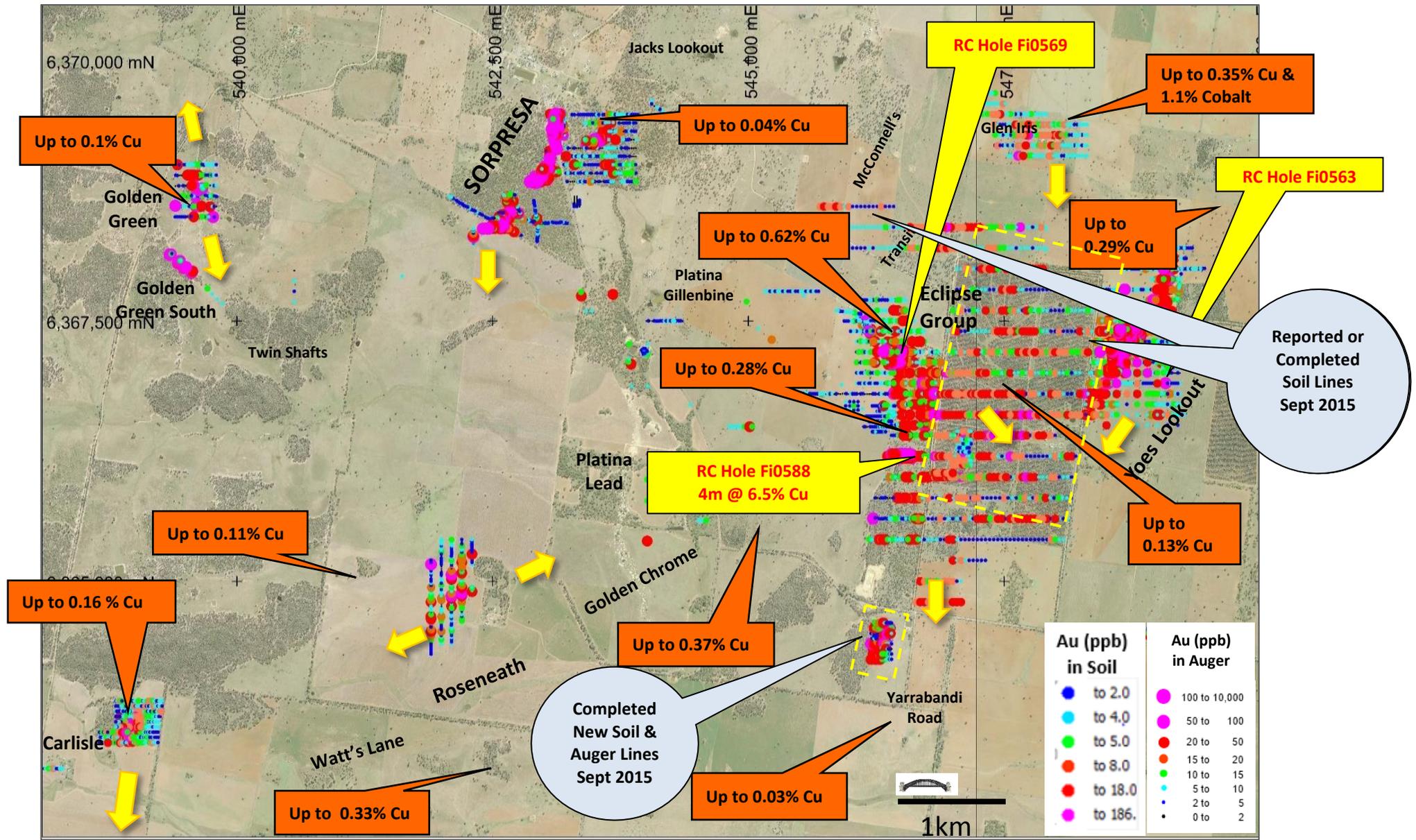


Figure 2: Wider Sorpresa area Map, shows the underlying gold signature, with best Copper Rock Chips overlaid. RC drilling (May~July 2015) has confirmed Copper (Chalcopyrite)



The Eclipse Trend is in a structurally complex area which is associated with a strong geochemical corridor which extends from Eclipse South for 2.6km through the Eclipse North drilling area and is open along strike to the north and south. Significant high grade Cu and Au drill intersections in both areas has indicated the potential for ore grade mineralisation relatively close to surface, open down dip and along strike.

Figure 3: Sorpresa Plan View, the location of the RC drill results at Trench 31 area. (Looking at Structural Controls and lens shapes on Gold and Silver)

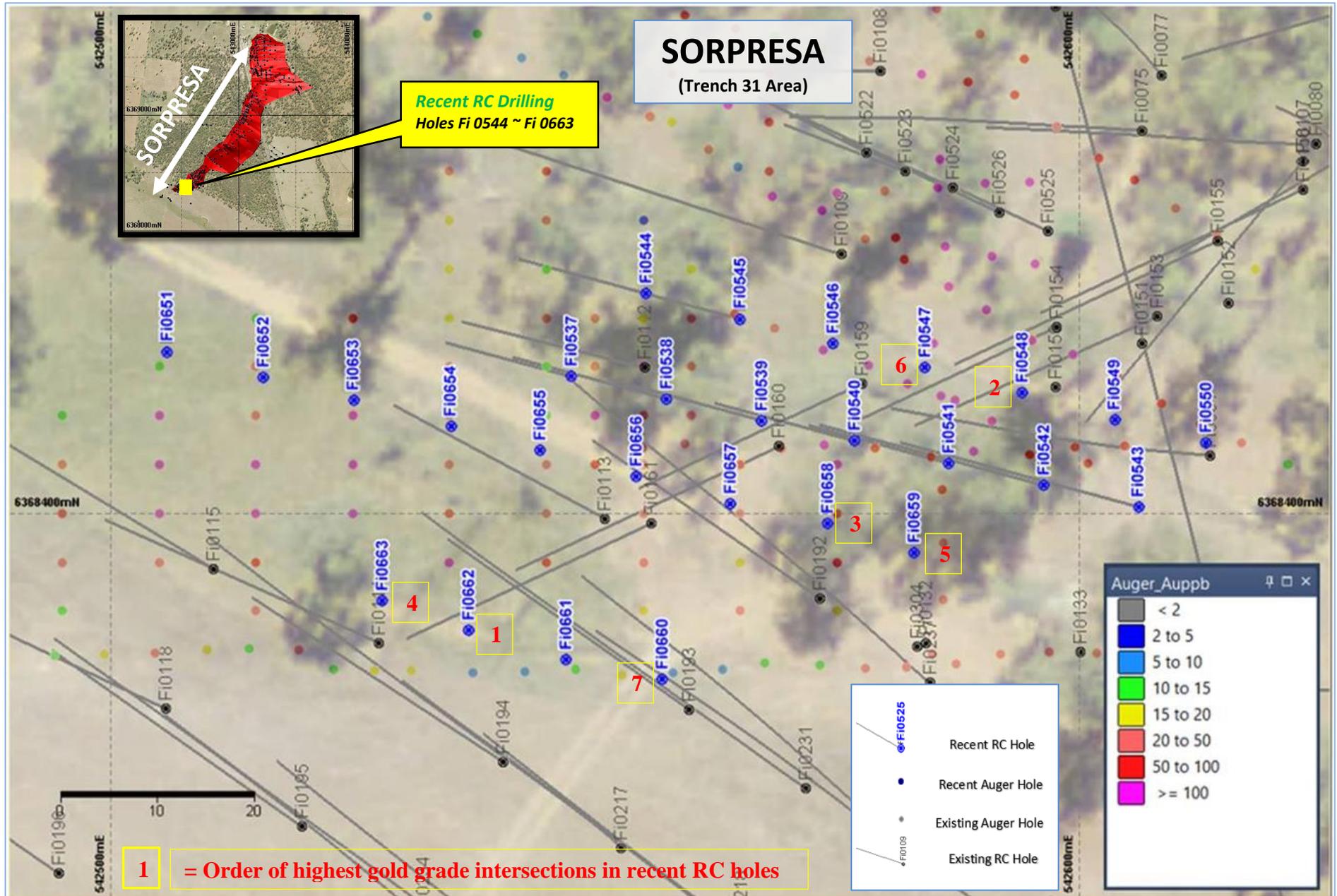


Figure 4: Eclipse Trend - Eclipse South: RC Collar locations in the vicinity of Fi0558

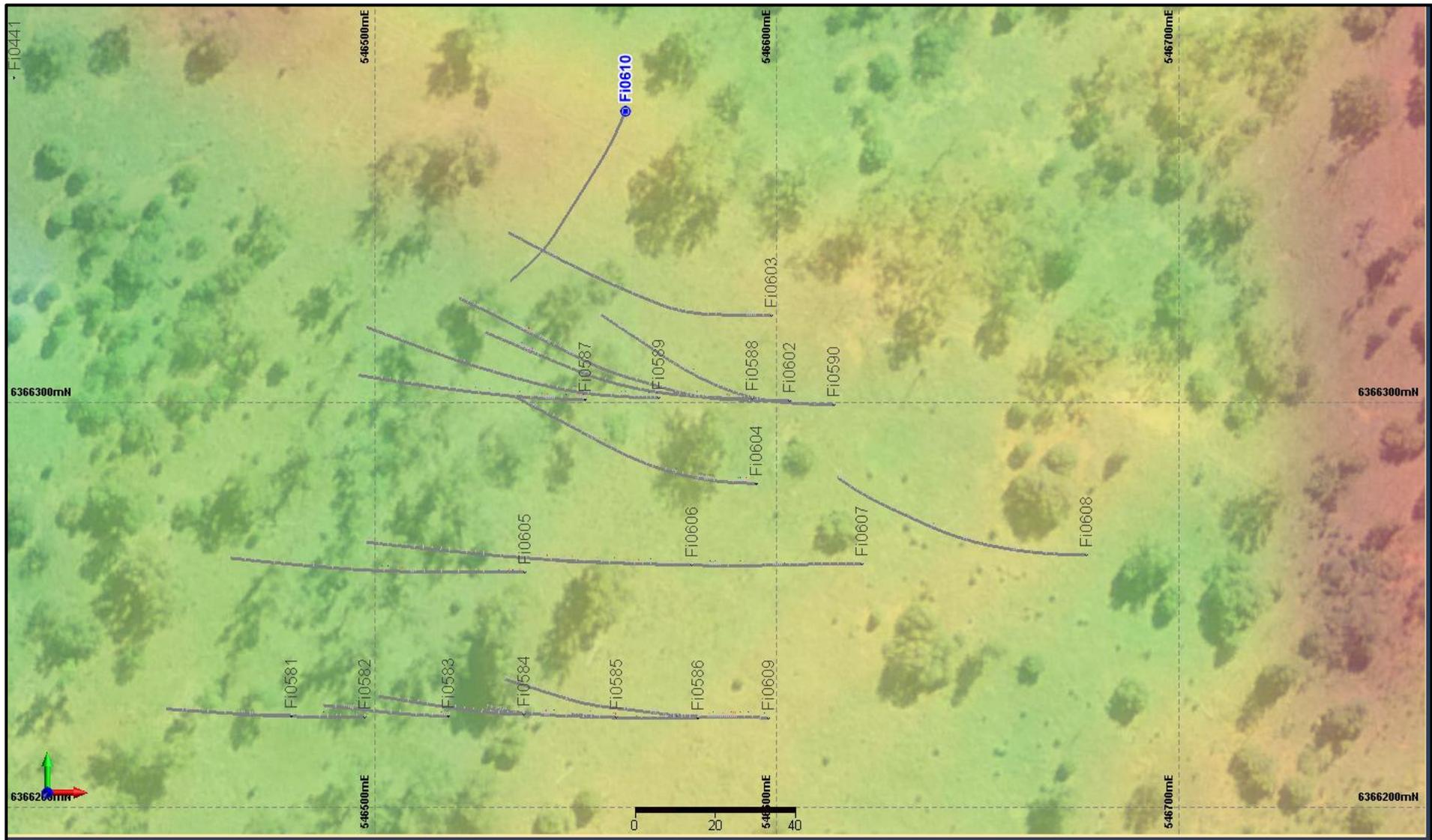


Figure 5: Location of recent RC drilling on new surface gold anomaly results at “south extension of Eclipse Trend”. (New Auger Drill program also shown)

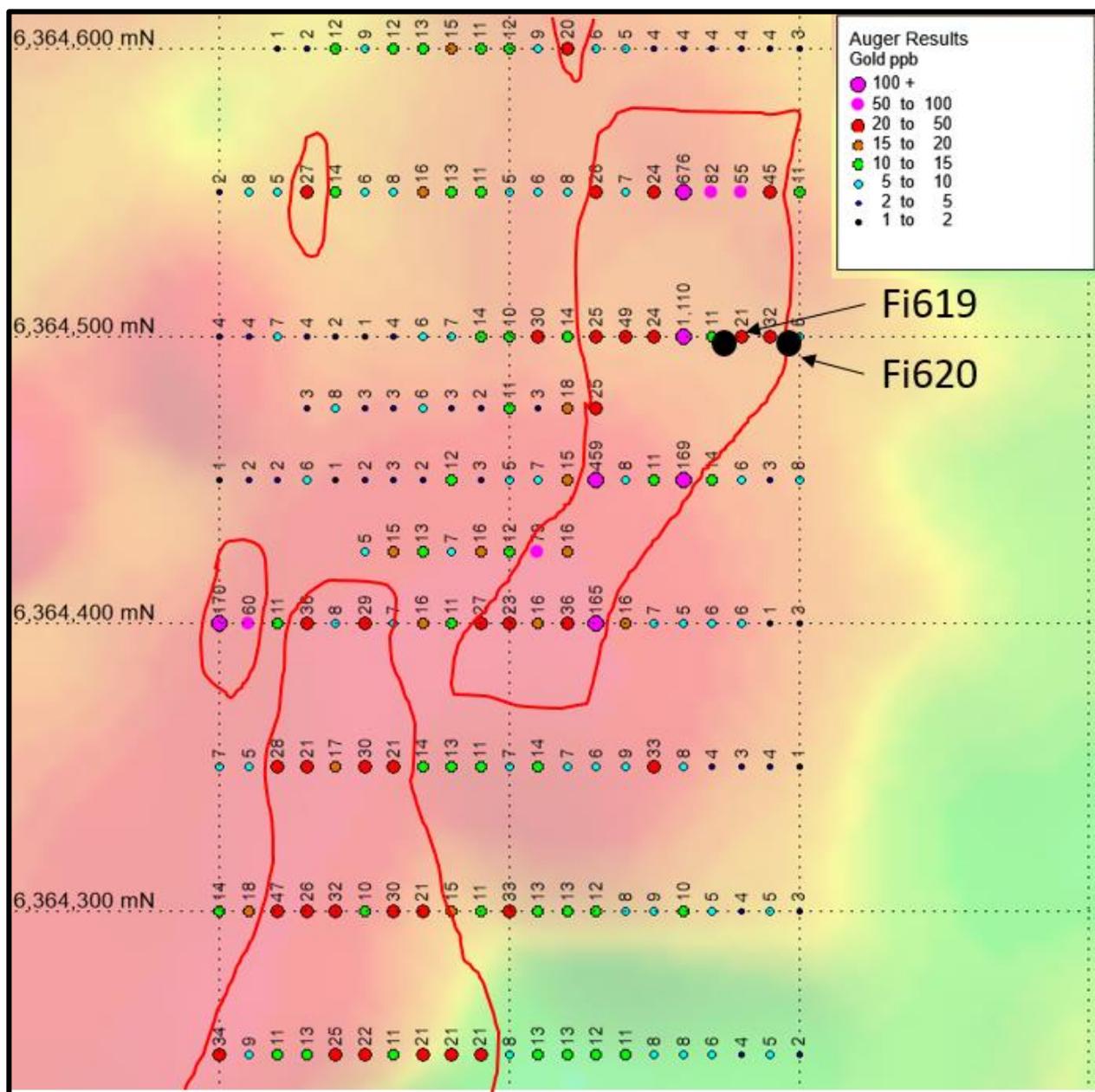


Figure 6: Location of Recent RC drilling at Sorpresa East Extensions on Magnetics RTP-1VD

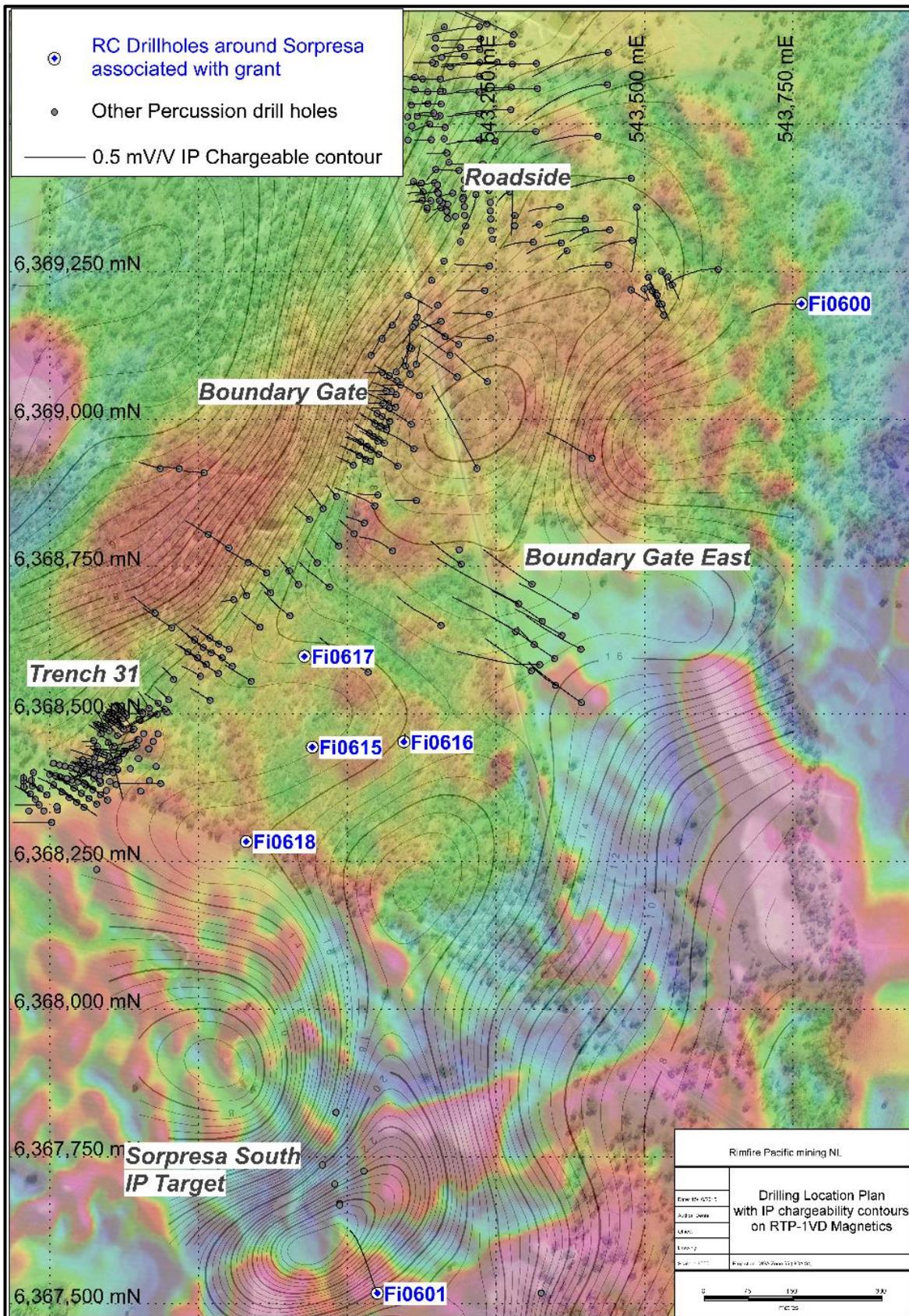
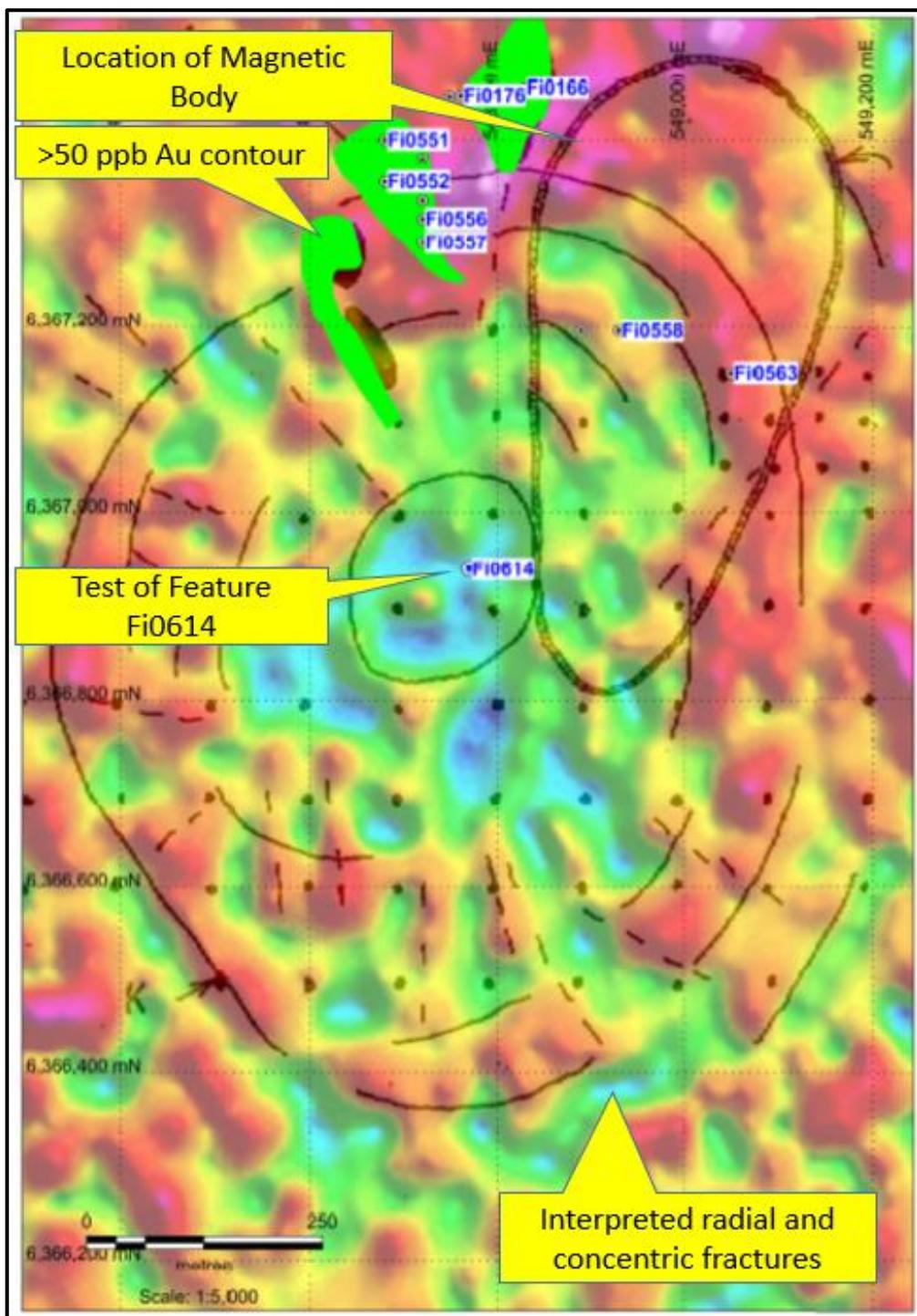


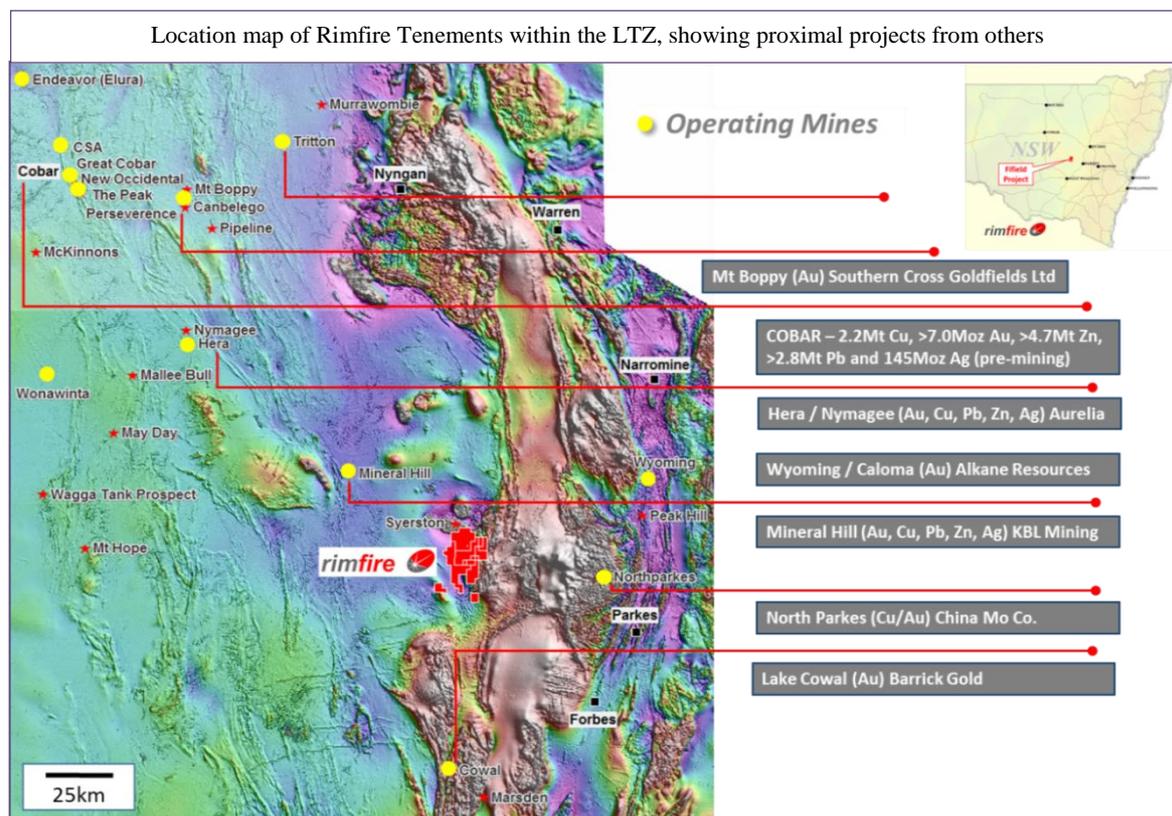
Figure 7: Yoe's Potassium Radiometrics showing concentric and radial features interpreted to represent fractures from intrusion



ABOUT RIMFIRE PACIFIC MINING AND COMPETENT PERSON DECLARATION

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 mineralised system of some promise. More recently a copper signature has been established to the East. The gold is predominantly native gold at Sorpresa.



The best gold and silver intersections achieved from the period mid-2012 to the current date on the **Sorpresa** Project area with locations shown include (note Table 4: **Dates and Hyperlinks for previously referred to results in this report**):

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 (BGE)
16m @ 5.32g/t Au plus 20m @ 81g/t Ag	Roadside
4m @ 21.9g/t Au	Join Up
26m @ 90g/t Ag plus 26m @ 0.37g/t Au	Roadside

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

The Company announced a JORC 2012 Compliant Inferred & Indicated Maiden resource for Sorpresa in December 2014, which comprises 6.4Mt for 7.9Moz of silver and 125kOz of gold (at 0.5g/t Au & 25g/t Ag cutoff).

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

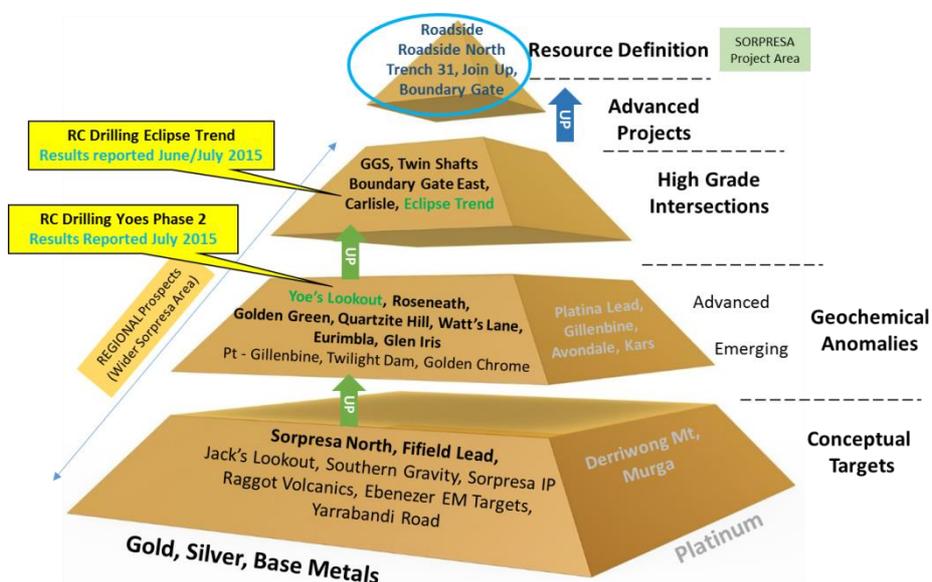
The latest presentations on the Company are at hyperlinks:

A 3D Exploration Model, as at May 2014, depicting gold mineralisation at Sorpresa with a description of the RC drill program goals at that time is available as a [video by hyperlink: Click Here](#).

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) and cross cut by other major crustal structures, which is host to multiple styles of significant mineralisation, with combined multimillion ounce gold equivalent potential. To date more than **30 targets** are revealed at Fifield.

The prospect pyramid below ranks these prospects which are grouped into 7 manageable “Target Domains”, for gold and base metals, in terms of their logistical, spatial, deposit style and exploration stage;



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, and a Resource at Sorpresa.

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-Copper, VMS / Epithermal)** – McConnell’s, Transit, Eclipse North, Eclipse, Eurimbla, Golden Chrome, Roseneath, Watt’s Lane, Carlisle.
4. **Yoes Lookout (Skarn style and Structurally controlled Greenstone and Sediment hosted Au, possible Porphyry Cu-Au target style)**
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, Raggatt Volcanics, Glen Iris,

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

Table 3: Ranked Prospect Portfolio at Fifield NSW

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 (best to date)	Open	Other	Historic Workings
Sorpresa Resource	8.8	10~50	20~1,000	1.5km	14 @ 24.4 g/t Au 26m @155g/t Ag	yes	IP/Gravity	Minor
Yoes Lookout	3.4	10~300	20~1,000	1.7km	Au, Cu anomalous	yes	Magnetic Feature, Cu	No
Eclipse Trend	18.7	N/A	20~700	2.2km	4m @ 6.5% Cu 4m @ 2.3g/t Au	yes	Ag, Cu	Minor
Golden Green Group	8.1	N/A	10~100	0.5km	2m @ 9.11g/t Au	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	0.35km	7m @ 1.47g/t Au	yes	Magnetic Feature	Minor

Company Strategy

The Company has 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 being pursued include Gold, Silver, Copper and Platinum
- 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
- Grow the maiden resource at Sorpresa (23 Dec 2014), currently published as inferred and indicated comprising **6.4Mt for 7.9Moz of silver and 125kOz of gold (at 0.5g/t Au & 25g/t Ag cutoff)**
- Examine economic potential, as appropriate to the stage of the project area

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 compiled by Colin Plumridge who is deemed to be a Competent Person and is a Member of The Australasian Institute of Mining and Metallurgy.

Mr Plumridge has over 45 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 mineralisation 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 the 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 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. Mr Colin Plumridge as a Competent Person consented to the inclusion in the original reports in the form and context in which each appeared, please refer to the Competent Persons declaration above for additional information.

Table 4 Dates and Hyperlinks for previously referred to results in this report

ASX November 9 th 2007	Golden Green Gold Prospect Returns Encouraging Assay
ASX July 25 th 2008	Quarterly Report For the period April 1st to June 30th 2008
ASX March 30 th 2012	Coherent Gold geochemistry at Yoes Lookout Confirmed – Fifield NSW
ASX September 17 th 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 Mineralisation Extended at Fifield, NSW
ASX November 28 th 2014	Encouraging Gold Results Intersected in New Shallow Oxide Position at Sorpresa
ASX December 8 th 2014	High Grades Intersected in Sorpresa Resource Definition Drilling
ASX December 23 rd 2014	Sorpresa Maiden Resource Fifield NSW – 6.4Mt for 125kOz of gold and 7.9Moz of silver
ASX January 30 th 2015	December Quarter Exploration Report
ASX February 20 th 2015	Sorpresa RC Drilling Assays Finalised, New RC Drilling underway to extend mineralisation
ASX February 23 rd 2015	Gold Intersections confirmed from Surface at Carlisle, Fifield NSW
ASX 23 rd March 2015	Encouraging Results including 2m @ 10.09g/t Gold Intersected at Sorpresa
ASX 13 th April 2015	Skarn style mineralisation intersected with Copper Anomalism at Yoes Lookout Prospect
ASX 20 th May 2015	Yoes Area Assays confirm Copper Anomalism with Gold Present
ASX 16 th June 2015	RC Drill Assays Confirm Copper Anomalism and Gold at Eclipse Trend
ASX 23 rd July 2015	4m @ 6.5% Cu and 2.3g/t Au Massive Chalcopyrite at Eclipse
ASX 26 th August 2015	Sorpresa Drilling Continues best intersection of 14m @ 5.24g/t gold & 156g/t silver from 21m
ASX 20 th October 2015	Sorpresa Drilling returns high grades including 3m @ 20.42g/t gold AND 4m @ 5.34g/t gold