

# A S RELEASE

19 December 2013
For Immediate Release

## **FURTHER HIGH GRADE GOLD AT VIVIEN (WA)**

#### **Highlights**

- > Further high grade gold mineralisation intersected in diamond drilling at Vivien.
- Significant new results received include:
  - 5.4m at 8.28 g/t Au from 310m including 2m at 21.3 g/t Au from 311.85m in VVDD1003
  - 6.7m at 8.29 g/t Au from 241.6m in drill hole VVDD1005
  - 2.57m at 18.16 g/t Au from 396.3m in VVDD1014
  - 5.1m at 6.43 g/t Au from 182m in VVDD1017

The Directors of gold producer, Ramelius Resources Limited, (ASX:RMS) are pleased to announce that further high grade gold intersections have been returned from recent exploration drilling at the Company's Vivien Gold Project, located 20km west of Leinster in the Eastern Goldfields of Western Australia.

The Company embarked on a programme of geotechnical and step-out exploration drilling at Vivien following the first payment of \$5 million to Agnew Gold Mining Company Pty Ltd for the acquisition of the high-grade advanced Vivien Gold Project, as announced on 3<sup>rd</sup> October, 2013.

Assay results are now available for the majority of the diamond holes (VVDD1000 to VVDD1018A), testing the area below the historical Vivien pit and the modelled north-eastern plunge extensions to the Main Lode. An aggregate 5,685.92m has been drilled to date.

Drill hole VVDD1005 intersected encouraging hangingwall mineralisation, returning **6.7m at 8.29 g/t Au**. The hangingwall intersection compliments the previously reported main lode intersection of **6.5m @ 30.4 g/t Au**; within the same hole (refer ASX Release dated 13<sup>th</sup> November, 2013). The hangingwall intersection confirms good continuity of mineralisation around historical drill holes and highlights the potential for greater thicknesses of high grade gold mineralisation to be discovered below the Vivien pit.

True width of the main vein intersections are estimated at approximately 60% of the reported down hole width while true widths of the interpreted hangingwall splays are up to 90% of the reported down hole widths.

A summary of significant results received to date is attached. Further drilling is scheduled to commence in the New Year.

#### For further information contact:

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#### 19 December 2013

#### **ISSUED CAPITAL**

Ordinary Shares: 365M

## **DIRECTORS**

Chairman:
Robert Kennedy
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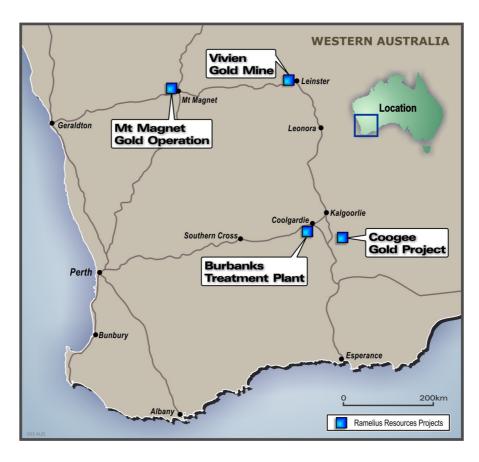


Figure 1: Vivien gold project location - relative to Ramelius' existing Western Australian operations

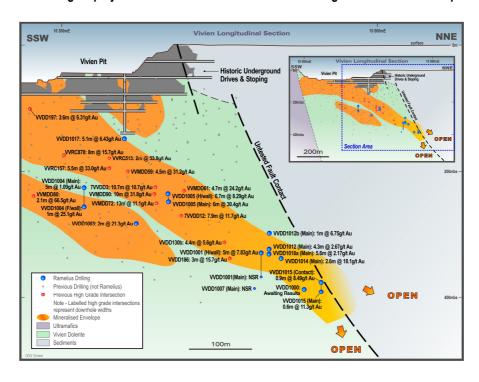


Figure 2: Longitudinal section - Vivien gold project

#### **Background on Vivien deposit**

Gold mineralisation at Vivien is associated with multiple laminated quartz lodes in an anastomosing north northeasterly trending shear zone. The host lithology is the north northwesterly trending differentiated Vivien Dolerite Sill. Where previously mined, the Main Lode extends over at least 450m and dips around 65° to the southeast and has an average true thickness of 1.5m. The gold mineralisation within the Main Lode plunges at 30° to the northeast and remains open with depth, beyond the current limit of drilling, around 370m below surface.

Attachment 1: Significant (>0.50 g/t Au) diamond drilling results for the Vivien gold project - Leinster WA

| Hole Id     | Easting | Northing | Az/Dip  | F/Depth<br>(m) | From<br>(m)          | To (m)               | Interval (m)         | g/t Au              |
|-------------|---------|----------|---------|----------------|----------------------|----------------------|----------------------|---------------------|
| VVDD1000    | 261314  | 6903285  | 297/-60 | 420            |                      |                      | Assays               | Awaited             |
| VVDD1001**  | 261279  | 6903244  | 297/-60 | 426            | 270.00               | 271.00               | 1.00                 | 2.90                |
|             |         |          |         | Incl.          | 306.00               | 309.00               | 3.00                 | 2.38                |
|             |         |          |         |                | 360.00               | 370.00               | 10.0                 | 4.69                |
|             |         |          |         |                | 363.00               | 368.00               | 5.00                 | 7.83                |
|             |         |          |         |                | 391.00               | 392.00               | 1.00                 | 2.24                |
| VVDD1002    | 261314  | 6903285  | 297/-57 | 180            | 407.00               | 408.48               | 1.48<br>precollar    | 3.74*<br>only       |
|             |         |          |         |                | 040.00               | 045.40               | -                    | •                   |
| VVDD1003    | 261138  | 6903115  | 297/-60 | 360.1          | 310.00               | 315.40               | 5.40                 | 8.28*               |
| VVDD1004**  | 261045  | 6903058  | 297/-60 | Incl.<br>290   | <b>311.85</b> 248.00 | <b>313.85</b> 253.00 | <b>2.00</b> 5.00     | <b>21.3</b> * 1.09* |
| VVDD1004    | 201045  | 0903030  | 2977-00 | 290            | 246.00<br>287.00     | 288.00               | 1.00                 | 25.1                |
| VVDD1005**  | 261086  | 6903192  | 297/-69 | 285            | 241.60               | 248.30               | 6.70                 | 8.29                |
| VVDD1000    | 201000  | 0300132  | 2017 00 | Incl.          | 257.70               | 264.20               | 6.50                 | 30.4*               |
|             |         |          |         | +              | 257.70               | 261.70               | 4.00                 | 48.5                |
|             |         |          |         |                | 258.95               | 259.70               | 0.75                 | 150.3               |
| VVDD1006    | 261278  | 6903202  | 297/-61 | 109            |                      |                      | precollar            | only                |
| VVDD1007**  | 261275  | 6903203  | 297/-65 | 474.1          | 432.00               | 433.00               | 1.00                 | 1.11                |
|             |         |          |         |                | 440.00               | 443.00               | 3.00                 | 0.96*               |
| VVDD1008    | 260900  | 6902902  | 297/-56 | 169.95         | 169.00               | 169.95               | 0.95                 | 2.25                |
|             |         |          |         |                |                      |                      | Geotech              | hole                |
| VVDD1009    | 260988  | 6902975  | 297/-60 | 253.45         |                      |                      | 0                    | NSR                 |
| VVDD1010    | 261277  | 6903244  | 297/-57 | 54             |                      |                      | Geotech<br>precollar | hole<br>only        |
| VVDD1010    | 261276  | 6903244  | 297/-58 | 138            |                      |                      | precollar            | only                |
| VVDD1011    | 261288  | 6903262  | 300/-55 | 404            | 370.20               | 372.20               | 2.00                 | 3.64                |
| VVDD1012B   | 261310  | 6903287  | 297/-64 | 42             | 070.20               | 012.20               | precollar            | only                |
| VVDD1014    | 261312  | 6903289  | 297/-61 | 419.97         | 396.30               | 398.87               | 2.57                 | 18.16*              |
| VVDD1015    | 261315  | 6903291  | 308/-61 | 460.21         | 409.67               | 410.57               | 0.90                 | 8.49                |
| V V DD 1013 | 201313  | 0903291  | 300/-01 | 400.21         | 427.36               | 427.96               | 0.90                 | 11.3*               |
|             |         |          |         |                | 445.20               | 445.90               | 0.70                 | 3.83                |
| VVDD1016    | 261283  | 6903242  | 297/-72 | 205            | 110.20               | 110.00               | precollar            | only                |
| VVDD1017    | 260860  | 6903261  | 126/-52 | 212.97         | 175.00               | 178.90               | 3.90                 | 4.06                |
|             | 200000  | 3000201  | 120, 02 | 212.01         | 182.90               | 188.00               | 5.10                 | 6.43*               |
| VVDD1018A   | 261094  | 6903180  | 358/-62 | 402.65         | 20.00                | 28.00                | 8.00***              | 2.00                |
|             |         |          |         |                | 169.50               | 169.80               | 0.30                 | 8.68                |
|             |         |          |         |                | 246.30               | 246.80               | 0.50                 | 4.06                |
|             |         |          |         |                | 256.85               | 257.85               | 1.00                 | 1.81                |
|             |         |          |         |                | 356.00               | 361.60               | 5.60                 | 2.17*               |

Reported significant gold assay intersections (using a 0.50 g/t Au lower cut) are calculated over a minimum down hole interval of 1m at plus 0.50 g/t gold and may contain up to 1m of internal dilution. NSR denotes no anomalous assays above 0.50g/t Au. BLD denotes below analytical detection. Main Lode gold determination was by Screened Fire Assay, using 50gm charges with AAS finishes and a lower limit of detection of 0.01 g/t Au, otherwise standard Fire Assay techniques using a 50 gram charge and AAS finish were employed (LLD 0.01 g/t Au). True widths are estimated to represent 55-60% of the reported Main Lode down hole intersections.

The Information in this release that relates to Exploration Results is based on information compiled by Kevin Seymour.

Kevin Seymour is a Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the styles of mineralisation and type of deposits under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves. Kevin Seymour is a full-time employee of the Company and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

<sup>\*</sup> Denotes Main Lode intersection

<sup>\*\*</sup> Denotes intersections previously reported to the ASX on 13/11/2013 and included here for completeness

<sup>\*\*\*</sup> Denotes 4m composite RC samples

# **JORC Code, 2012 Edition – Table 1 report**

## **Section 1 Sampling Techniques and Data**

#### (Criteria in this section apply to all succeeding sections.) Criteria **JORC Code explanation** Commentary Sampling • Nature and quality of sampling (eg cut techniques channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. Screen fire assaying was employed to • In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was ICP-OES techniques. pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information. Drilling Precollars were completed using best practice 5 Drill type (eg core, reverse circulation, techniques open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, facesampling bit or other type, whether core is oriented and if so, by what method, etc).

## Drill sample recovery

- Method of recording and assessing core and chip sample recoveries and results assessed.
- Measures taken to maximise sample recovery and ensure representative nature of the samples.

## The mineralisation was systematically sampled using industry standard 1m or less intervals.

- collected from oriented NQ-2 diamond tails and reverse circulation (RC) precollars.
- Drill hole locations were designed to allow for spatial spread across multiple mineralised zones. All RC precollar samples were riffle split to 3-4kg samples on 1m metre intervals. Composites were collected by spearing the bulk riffle split samples to produce 3-4kg over a 4m composite samples. Representative 1m riffle split samples remain on site should selective 1m sampling of the 4m composite intervals be required. Diamond core samples were oriented and half cut on geological contacts and/or intervals not exceeding 1m each.
- counteract concerns of coarse gold biasing the sampling procedure. Fire assays on both the coarse and finer fraction were analysed using a 50gm charge with an AAS finish. Trace element determination was undertaken using ICP-MS or

- 3/4" face sampling RC drilling hammers. NQ-2 diamond tails (50.6mm core diameter) were used with specific HQ tails (63.5mm) drilled for geotechnical purposes. All diamond core was oriented by the drilling contractor using Ace core orientations. The inclusion of DD in the drill hole prefix identifies diamond drill core was sampled. Any anomalous intervals in the RC precollars are flagged as RC chips accordingly.
- Once drilled, all diamond core is laid on racks and re-joined to align and determine natural verses drilling induced breaks. A bottom of hole orientation line is traced on the core. The core is further annotated with arrows to show which way the core sat in the ground prior to removal so no confusion over the orientation of the core

| Criteria  | JORC Code explanation  | Commentary   |
|---|--|--|
|   | Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.   | can arise. The core is next measured to 2 decimal places to ensure the length of core matches the core run as recorded on the core blocks by the drilling contractor. Any discrepancies, ie core loss or gain are accounted for before regular 1m spaced depth annotations are recorded on the core. Feedback is given to the drillers to ensure the best representative sample is always obtained should any discrepancies exist.  • The sample recovery verses gold grade is assessed on a regular basis and shorter drill runs are completed as necessary to maximize sample quality. Zones of broken core, ie where the core can't be accurately joined together are recorded in the database and cross checked once assay results are received from the laboratory to ensure no misrepresentation of sampling intervals has occurred. When core loss is recorded the corresponding sample interval is adjusted and only the true length of the sample analysed is recorded as the sample interval. Of note, excellent core recovery is reported from all diamond drill holes at Vivien.  • Diamond core is used in preference to RC drilling to test narrow vein systems like Vivien to ensure a true representation of the vein thickness is recorded and the intersections are not exaggerated by uniform 1m RC sample intervals. |
| Logging   | <ul> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul> | <ul> <li>All RC and diamond drill samples are geologically logged on site by professional geologists, and in the case of the diamond core, geotechnically logged by experienced technicians. Details on the host lithologies, deformation, dominant minerals including sulphide species and alteration minerals plus veining are recorded relationally (separately) so the logging is interactive and not biased to lithology.</li> <li>Drill hole logging of RC chips and diamond core is qualitative on visual recordings of rock forming minerals and quantitative on estimates of mineral abundance.</li> <li>The entire length of the RC precollars and diamond tails are geologically logged.</li> </ul>   |
| Sub-<br>sampling<br>techniques<br>and sample<br>preparation | <ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature,</li> </ul>  | Half core sawn samples are collected for dispatch to the laboratory, with ¼ core samples collected every 25 <sup>th</sup> sample interval as duplicate samples. Likewise duplicate samples are collected every 25 <sup>th</sup> sample from the RC precollar chips.  |

#### Criteria **JORC Code explanation** Commentary quality and appropriateness of the Dry RC 1m samples are riffle split to 3-4kg as sample preparation technique. drilled. 4m composites (3-4kg) are speared from Quality control procedures adopted for the bulk sample on site and dispatched to the all sub-sampling stages to maximise laboratory. Single metre samples are representivity of samples. dispatched to the lab when 4m composite assays exceed 0.10 g/t Au. Any wet samples Measures taken to ensure that the are recorded in the database as such and sampling is representative of the in situ material collected, including for allowed to dry before splitting and dispatching to instance results for field the laboratory. All samples are pulverized prior to splitting in the duplicate/second-half sampling. Whether sample sizes are appropriate laboratory to ensure homogenous samples with to the grain size of the material being 85% passing 75um. 200gm is extracted by sampled. spatula that is used for the 50gm charge on standard fire assays away from the Main Lode while a nominal 1kg sample is split from the 3-4kg homogenized bulk for screen fire assay. The sample is screened through a 100um cloth before the coarse fraction and cloth is fire assayed. The fine fraction is also fire assayed. The weighted average of the two fractions is calculated to determine the total gold content. RC and diamond samples submitted to the laboratory are sorted and reconciled against the submission documents. In addition to duplicates a high grade or low grade standard is included every 25<sup>th</sup> sample, a controlled blank is inserted every 100<sup>th</sup> sample. The laboratory uses barren flushes to clean their pulveriser and their own internal standards and duplicates to ensure industry best practice quality control is maintained. The sample size is considered appropriate for the type, style, thickness and consistency of mineralization at Vivien. Quality of The screen fire assay method is designed to The nature, quality and assay data appropriateness of the assaying and measure the total gold in the sample and and laboratory procedures used and determine the percentage of coarse gold laboratory whether the technique is considered present. The technique involves standard fire tests partial or total. assays using a 50gm sample charge with a lead For geophysical tools, spectrometers, flux (decomposed in the furnace). The prill is handheld XRF instruments, etc. the totally digested by HCl and HNO<sub>3</sub> acids before measurement of the gold determination by AAS parameters used in determining the from both the coarse and finer fractions, from analysis including instrument make and model, reading times, calibrations which the weighted average gold content is calculated. factors applied and their derivation, No field analyses of gold grades are completed. etc. Nature of quality control procedures Quantitative analysis of the gold content and trace elements is undertaken in a controlled adopted (eg standards, blanks, duplicates, external laboratory checks) laboratory environment.

and whether acceptable levels of accuracy (ie lack of bias) and

precision have been established.

Industry best practice is employed with the

discussed above, and used by Ramelius as well

inclusion of duplicates and standards as

| Criteria                              | JORC Code explanation   | Commentary   |
|---------------------------------------|---|--|
| Verification of sampling and assaying | <ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul> | as the laboratory. All Ramelius standards and blanks are interrogated to ensure they lie within acceptable tolerances. Additionally, sample size, grind size and field duplicates are examined to ensure no bias to gold grades exists.  • Alternative Ramelius personnel have inspected the drill core and RC chips in the field to verify the correlation of mineralized zones between assay results and lithology, alteration and mineralization.  • Ramelius is completing several diamond twins of previous explorers drilling to verify the reproducibility of historical results ahead of any resource calculations.  • All holes are digitally logged in the field and all primary data is forwarded to Ramelius' Database Administrator (DBA) in Perth where it is imported into Datashed, a commercially available and industry accepted database software package. Assay data is electronically merged when received from the laboratory. The responsible project geologist reviews the data in |
|                                       |   | the database to ensure that it is correct and has merged properly and that all the drill data collected in the field has been captured and entered into the database correctly.  The responsible geologist makes the DBA   |
|                                       |   | <ul> <li>aware of any errors and/or omissions to the database and the corrections (if required) are corrected in the database immediately.</li> <li>No adjustments or calibrations are made to any of the assay data recorded in the database.</li> <li>No new mineral resource estimate is included in</li> </ul>   |
| Location of data points               | <ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>  | <ul> <li>All drill hole collars are picked up using accurate RTK-GPS survey control. All down hole surveys are collected using non-magnetic gyro surveying techniques from recognized industry surveying service providers.</li> <li>All holes are picked up in MGA94 – Zone 51 grid coordinates.</li> <li>Topographic control is established from DTMs generated from mine surveyors' total station final pickups of the historical Vivien open cut and surrounding landforms.</li> </ul>   |
| Data spacing<br>and<br>distribution   | <ul> <li>Data spacing for reporting of<br/>Exploration Results.</li> <li>Whether the data spacing and<br/>distribution is sufficient to establish the<br/>degree of geological and grade<br/>continuity appropriate for the Mineral</li> </ul>  | <ul> <li>Deeper exploration drill holes were planned on nominal 50m x 50m partings.</li> <li>Given the detailed understanding of the Main Lode immediately below the pit where it has been intensely drilled down to 10m partings in places this broader spacing is considered</li> </ul>  |

| Criteria  | JORC Code explanation  | Commentary  |
|---|--|---|
|   | Resource and Ore Reserve estimation procedure(s) and classifications applied.  • Whether sample compositing has been applied.  | <ul> <li>adequate as a first pass to define the continuity of mineralisation, ahead of any infill as required for future resource estimation work.</li> <li>No sampling compositing has been applied within key mineralised intervals.</li> </ul>   |
| Orientation<br>of data in<br>relation to<br>geological<br>structure | <ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul> | <ul> <li>The majority of the drilling is drilled to 297degrees, being orthogonal to the strike of the Main Lode. Structural logging of oriented diamond core supports the drilling direction and sampling method.</li> <li>No drilling orientation and/or sampling bias has been recognized at this time.</li> </ul>  |
| Sample<br>security  | The measures taken to ensure sample security.  | Sample security is integral to Ramelius' sampling procedures. Oriented, marked and logged diamond core is transported to Mt Magnet for cutting by Ramelius personnel. All bagged diamond half core samples plus RC samples are delivered directly from the field to the laboratory, whereupon the laboratory checks the physically received samples against Ramelius' sample submission/dispatch notes. |
| Audits or reviews   | The results of any audits or reviews of<br>sampling techniques and data.   | Sampling techniques and procedures are reviewed prior to the commencement of new work programmes to ensure adequate procedures are in place to maximize the sample collection and sample quality on new projects. No external audits have been completed over Vivien to date.   |

# **Section 2 Reporting of Exploration Results**

(Criteria listed in the preceding section also apply to this section.)

| Criteria   | JORC Code explanation  | Commentary   |
|--|--|--|
| Mineral<br>tenement<br>and land<br>tenure status | <ul> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a</li> </ul> | <ul> <li>The results reported in this Announcement are on granted Mining Leases (ML) 36/34 and 36/111 held by Agnew Gold Mining Company Pty Ltd (Agnew) and subject to the Sale Agreement between Agnew and Ramelius Resources Limited announced on 3<sup>rd</sup> October, 2013. The mining leases are located on pastoral leases. Heritage surveys are completed prior to any ground disturbing activities in accordance with Ramelius' responsibilities under the Aboriginal Heritage Act.</li> </ul> |

| Criteria                                | JORC Code explanation   | Commentary   |
|---|---|--|
|   | licence to operate in the area.   | <ul> <li>At this time the tenements are in good<br/>standing. There are no known impediments to<br/>obtaining a licence to operate in the area.</li> </ul>   |
| Exploration<br>done by<br>other parties | <ul> <li>Acknowledgment and appraisal of<br/>exploration by other parties.</li> </ul>   | <ul> <li>Exploration by other parties has been reviewed<br/>and is used as a guide to Ramelius' exploration<br/>activities. Previous parties have completed<br/>both open cut and underground mining,<br/>geophysical data collection and interpretation,<br/>soil sampling and drilling. This Announcement<br/>concerns only exploration results generated by<br/>Ramelius.</li> </ul>  |
| Geology                                 | <ul> <li>Deposit type, geological setting and<br/>style of mineralisation.</li> </ul>   | <ul> <li>The mineralisation at Vivien is a typical orogenic<br/>structurally controlled Archaean gold lode<br/>system. The mineralisation is controlled by a<br/>NNE trending anastomosing shear zone healed<br/>by laminated quartz-sulphide veining. The Main<br/>Lode extends over 450m strike and dips around<br/>65° to the southeast. High grade gold<br/>mineralization plunges around 30° to the<br/>northeast.</li> </ul>   |
| Drill hole<br>Information               | <ul> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:         <ul> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> </ul> </li> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</li> </ul> | <ul> <li>All the drill holes reported in this         Announcement have the following parameters         applied. All drill holes completed, including         holes with no significant results (&gt;0.5 g/t Au)         are reported in this announcement.</li> <li>Easting and northing are given in MGA94 – Zone         51 coordinates</li> <li>RL is AHD</li> <li>Dip is the inclination of the hole from the         horizontal. Azimuth is reported in magnetic         degrees as the direction the hole is drilled.         MGA94 and magnetic degrees vary by &lt;1° in the         project area.</li> <li>Down hole length is the distance measured         along the drill hole trace. Intersection length is         the thickness of an anomalous gold intersection         measured along the drill hole trace.</li> <li>Hole length is the distance from the surface to         the end of the hole measured along the drill         hole trace.</li> <li>No results currently available from the         exploration drilling are excluded from this         Announcement. Only gold grade intersections         &gt;0.5g/t Au with up to 1m of internal dilution are</li> </ul> |

| Criteria                 | JORC Code explanation   | Commentary  |
|--------------------------|---|---|
| Data                     | In reporting Exploration Results,   | <ul> <li>considered significant and are reported in this Announcement. Gold grades less than 0.5 g/t Au are not considered material due to their low grade.</li> <li>The first gold assay result received from each</li> </ul>  |
| aggregation<br>methods   | weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.  • Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.  • The assumptions used for any reporting of metal equivalent values should be clearly stated. | sample reported by the laboratory is tabled in the list of significant assays. Subsequent repeat analyses when performed by the laboratory are checked against the original to ensure repeatability of the assay results. In the case of Vivien screened fire assays have been performed to remove perceived variability of coarse gold biasing the assay results. Weighted average techniques are applied to determine the grade of the anomalous interval when geological intervals less than 1m have been sampled.  • Results are reported using a 0.5 g/t Au lower cut-off and may include up to 1m of internal dilution. Significant assays greater than 8 g/t Au are reported separately as contained within the broader lower grade intervals. For example the broader plus 0.5 g/t Au intersection of 6.5m @ 30.5 g/t Au contains a higher grade zone running plus 8 g/t Au and is included as 4m @ 48.5 g/t Au. Where extremely high gold intersections are encountered as in this example, the highest grade sample interval (0.75m @ 150 g/t Au) is also reported. All assay results are reported to 3 significant figures in line with the analytical precision of the laboratory techniques employed.  • No metal equivalent reporting is used or applied. |
| Relationship             | These relationships are particularly  | The intersection length is measured down the  |
| between<br>mineralisatio | important in the reporting of   | length of the hole and is not usually the true  |
| n widths and             | Exploration Results.  • If the geometry of the mineralisation   | width. When sufficient knowledge on the thickness of the intersection is known an   |
| intercept                | <ul> <li>If the geometry of the mineralisation<br/>with respect to the drill hole angle is</li> </ul>   | estimate of the true thickness is provided.   |
| lengths                  | known, its nature should be reported.   | <ul> <li>The geometry of the mineralization with</li> </ul>   |
|                          | <ul> <li>If it is not known and only the down</li> </ul>  | respect to the drill holes reported in this   |
|                          | hole lengths are reported, there should be a clear statement to this  | Announcement is well constrained from historical mining and previous drill hole   |

intersections.

effect (eg 'down hole length, true

| Criteria              | JORC Code explanation   | Commentary  |
|-----------------------|---|---|
|                       | width not known').  |   |
| Diagrams              | <ul> <li>Appropriate maps and sections (with<br/>scales) and tabulations of intercepts<br/>should be included for any significant<br/>discovery being reported These should<br/>include, but not be limited to a plan<br/>view of drill hole collar locations and<br/>appropriate sectional views.</li> </ul>   | <ul> <li>A longitudinal section is provided in this         Announcement to enable the reader to see the         intersections relative to previous mining and         previous drill hole intersections plus the current         interpretation of the overall lode geometry.         Cross sections will be prepared for future         releases when additional holes are drilled up         and down dip of the new holes reported.     </li> </ul> |
| Balanced<br>reporting | <ul> <li>Where comprehensive reporting of all<br/>Exploration Results is not practicable,<br/>representative reporting of both low<br/>and high grades and/or widths should<br/>be practiced to avoid misleading<br/>reporting of Exploration Results.</li> </ul>   | <ul> <li>All RC and diamond drill holes completed to<br/>date are reported in this Announcement and all<br/>material intersections (&gt;0.5 g/t Au) are<br/>reported.</li> </ul>  |
| Other                 | Other exploration data, if meaningful   | No other exploration data that has been   |
| substantive           | and material, should be reported  | collected is considered meaningful and material   |
| exploration           | including (but not limited to):   | to this Announcement.   |
| data                  | geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.  |   |
| Further work          | <ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul> | <ul> <li>Future exploration includes the completion of the current drilling programme plus additional step out exploration drill holes to better define the extent of the newly reported hangingwall mineralisation.</li> <li>The attached longitudinal section highlights the interpreted plunge extensions to the known mineralisation.</li> </ul>  |