

ASX Code: VTX

ETHICALLY AND ENVIRONMENTALLY  
SUSTAINABLE

Advanced Hill End Gold Project (NSW)  
34km strike length high grade gold system –  
to be developed on a large scale - 1.6m ozs  
historically mined.

Advanced Hargraves Gold Project (NSW)  
moving to a PFS.

Combined existing 2012 JORC 484K oz @  
3.28 g/t. Significant exploration upside  
likely to be amenable to gravity recovery,  
with recoveries potentially as high as 95%.

Highly prospective Pride of Elvire Gold Project  
(WA) & Taylors Rock Nickel Gold Project  
(WA).

Hill End is home to the largest gold reef  
nugget ever found – world record.



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## More strong gold grades at Red Hill

ASX ANNOUNCEMENT 28<sup>TH</sup> NOVEMBER 2022

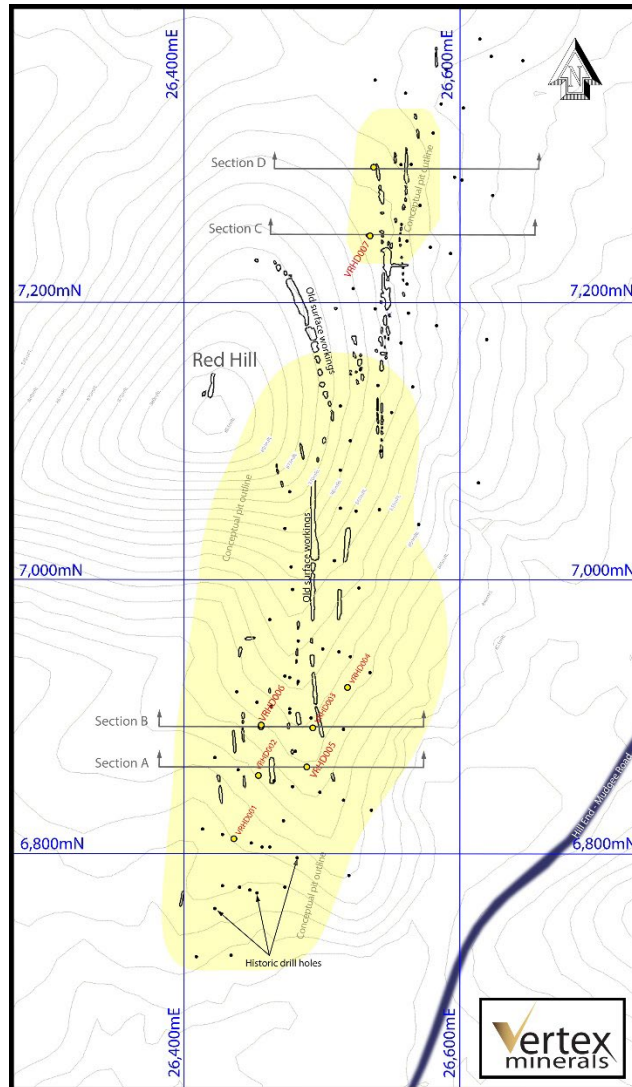
### HIGHLIGHTS:

- Assays have been received for four more diamond holes at the Company's Red Hill gold project.
- Gold grades up to 12.70g/t over one meter.
- Shallow mineralisation over broad intercepts.
- VRHD005 significant intercepts:
  - 5m at 2.97 g/t from 33m down hole.
    - Includes 1m at 12.70 g/t from 34m.
  - 2m at 3.37 g/t from 67m down hole.
    - Includes 1m at 4.50 g/t from 67m.
  - 1m at 2.58 g/t from 93m down hole.
- VRHD006 significant intercepts:
  - 1m at 2.21 g/t from 3m down hole.
  - 1m at 2.74 from 20m down hole.
- VRHD007 significant intercepts:
  - 2m at 1.27 g/t from 37m down hole.
- VRHD008 significant intercepts:
  - 3m at 1.02 g/t from 14m down hole.
  - 2m at 1.11 g/t from 32m down hole.
- The current drill program is the first phase of a multi-stage drilling program.
- Drilling is targeting strike and depth extensions to known high grade mineralisation at Red Hill.
- Drilling, logging, sampling and sample submission to ALS laboratories in Orange continues. Vertex expects to announce further results as they come to hand.
- Red Hill has an existing Mineral Resource of 80,000 oz Au @ 1.7 g/t to 150m depth and forms 1km of the 14km strike length of the Hill End Goldfield.

**Ethical and environmentally sustainable gold explorer Vertex Minerals Limited (ASX: VTX) (“Vertex” or the “Company”) is pleased to advise of more strong gold assay results from the Red Hill Project.**

The Company has received a further 4 holes of assay results from the 1,500m diamond drill program at Red Hill. Drilling is being completed by specialist contractor “The Drillers” under the supervision of the Company’s own geologists. The location of the four holes is shown in Figure 1 while drill hole sections are illustrated in Figures 2, 3, 4 and 5.

Figure 1 – Drill hole and section locations at Red Hill



The mineralisation demonstrates significant widths from surface which the Company believes is amenable to open pit mining techniques.

Figure 2 – Section 1 showing VRHD005

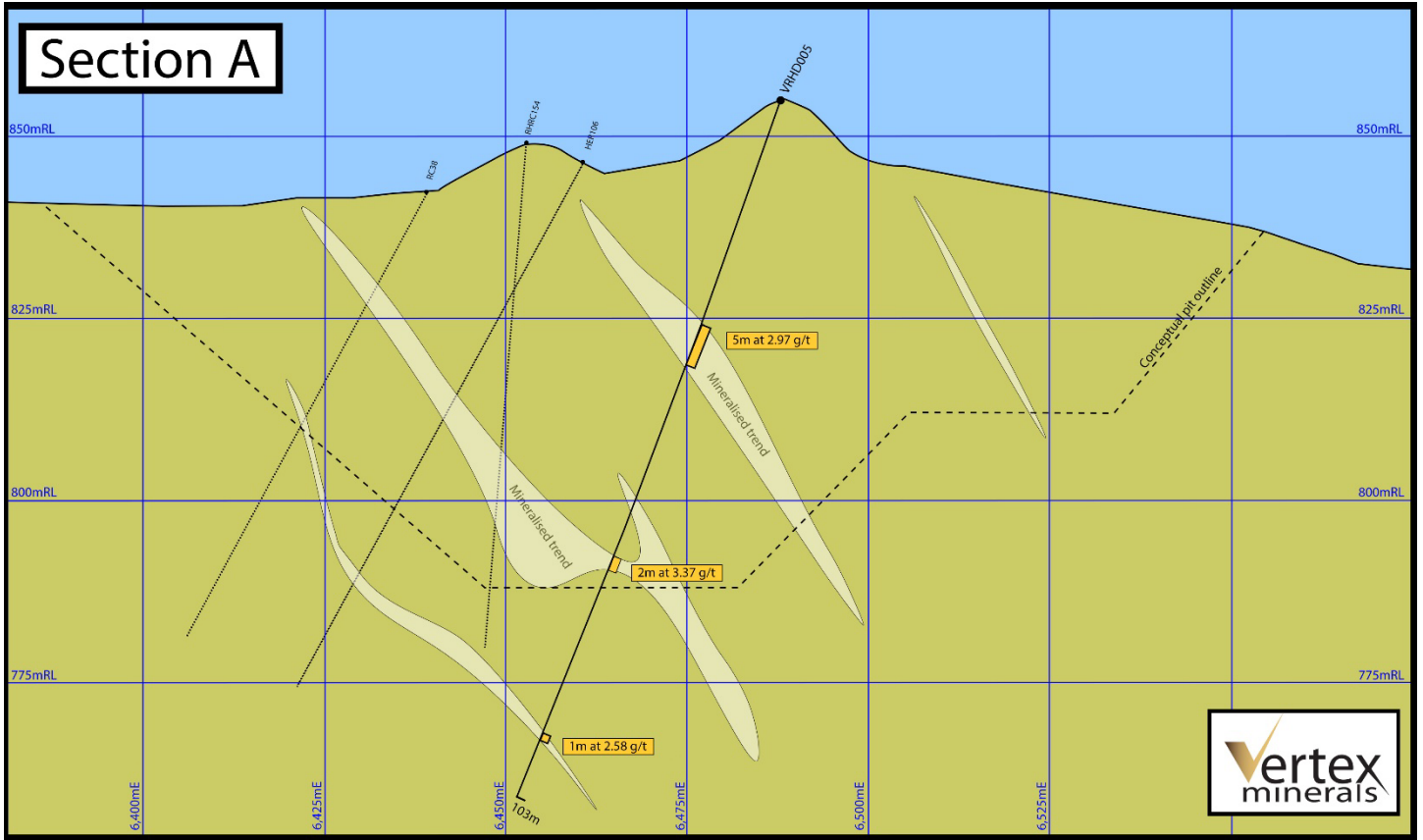


Figure 3 - Section 2 showing VRHD006

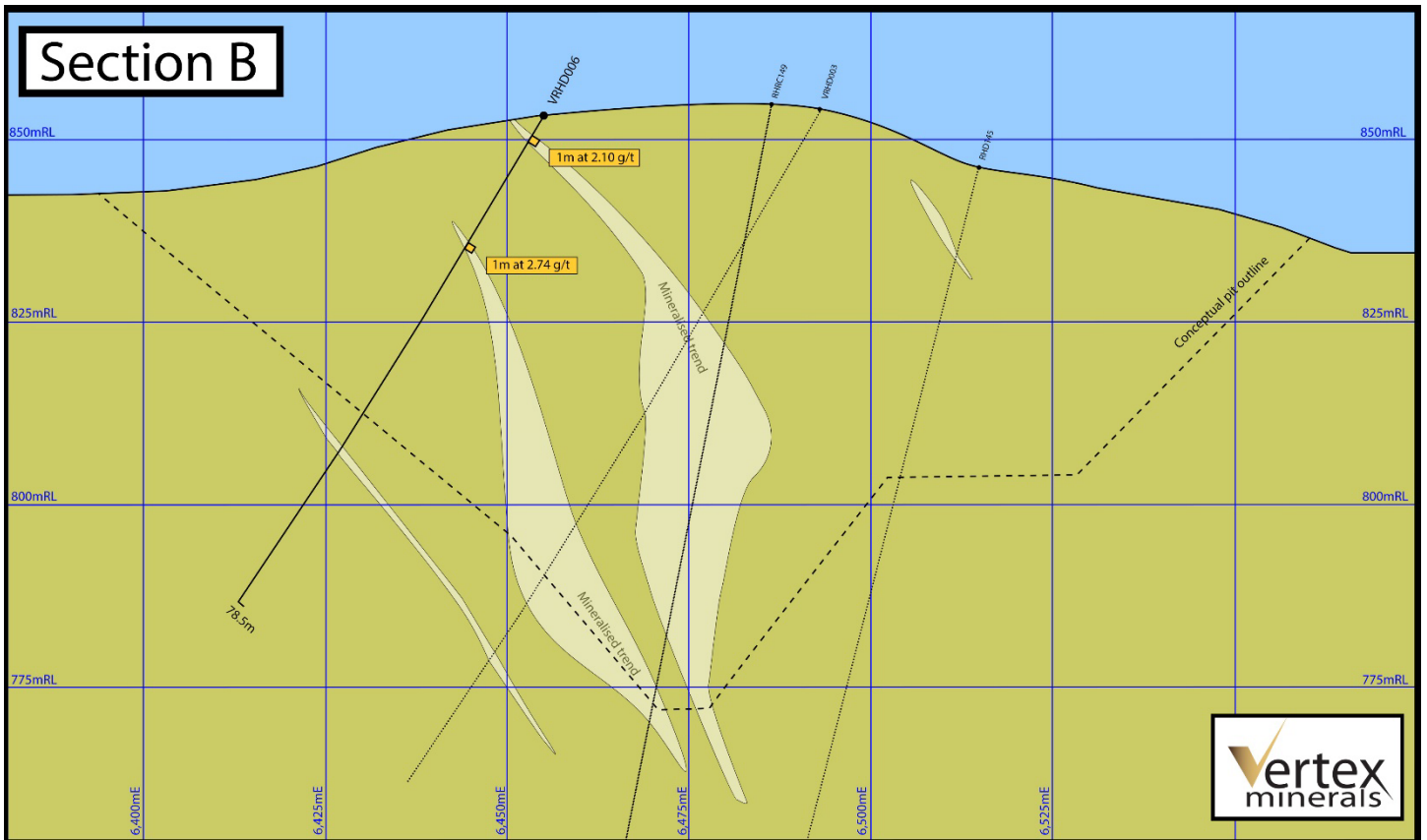


Figure 4 - Section 3 showing VRHD007

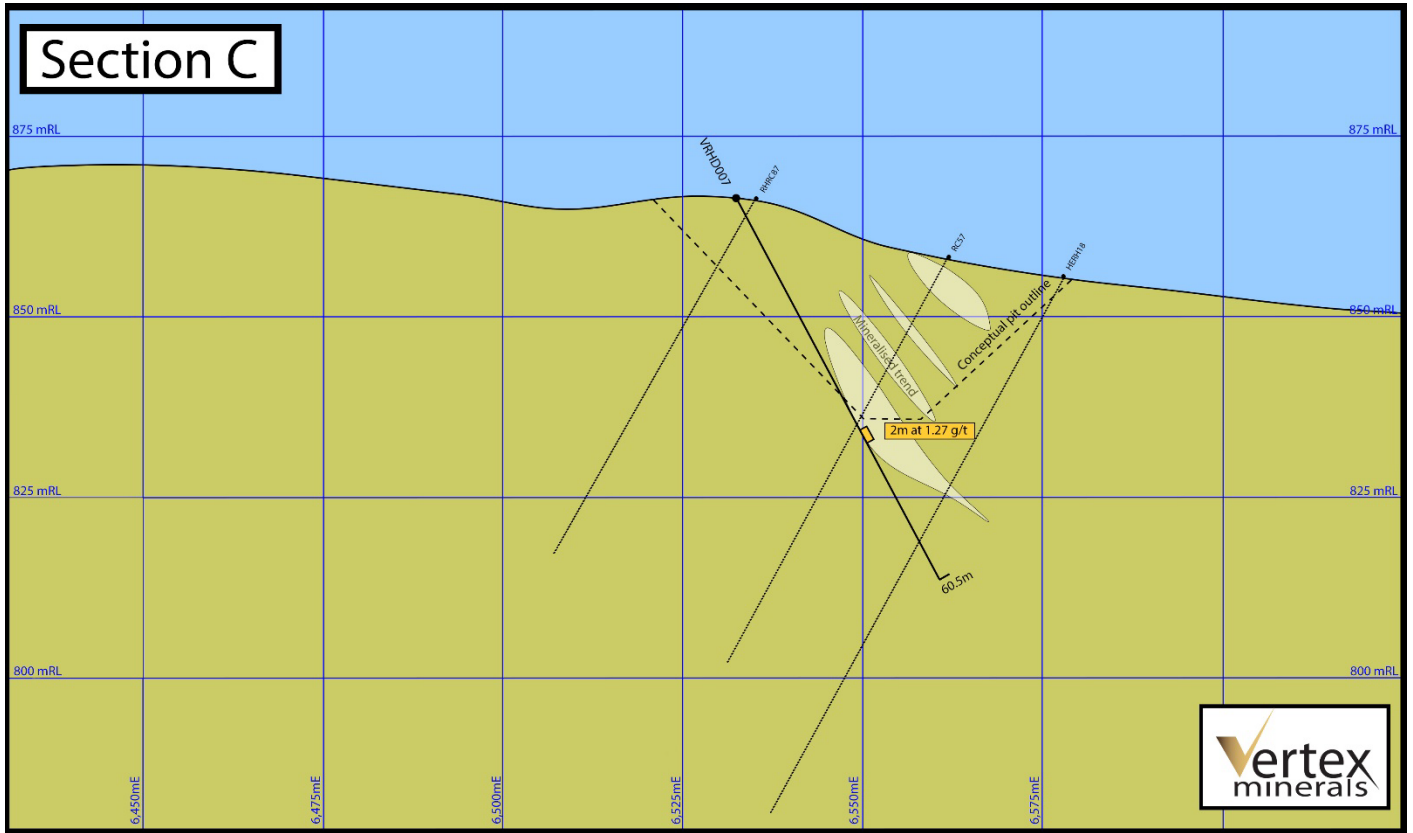
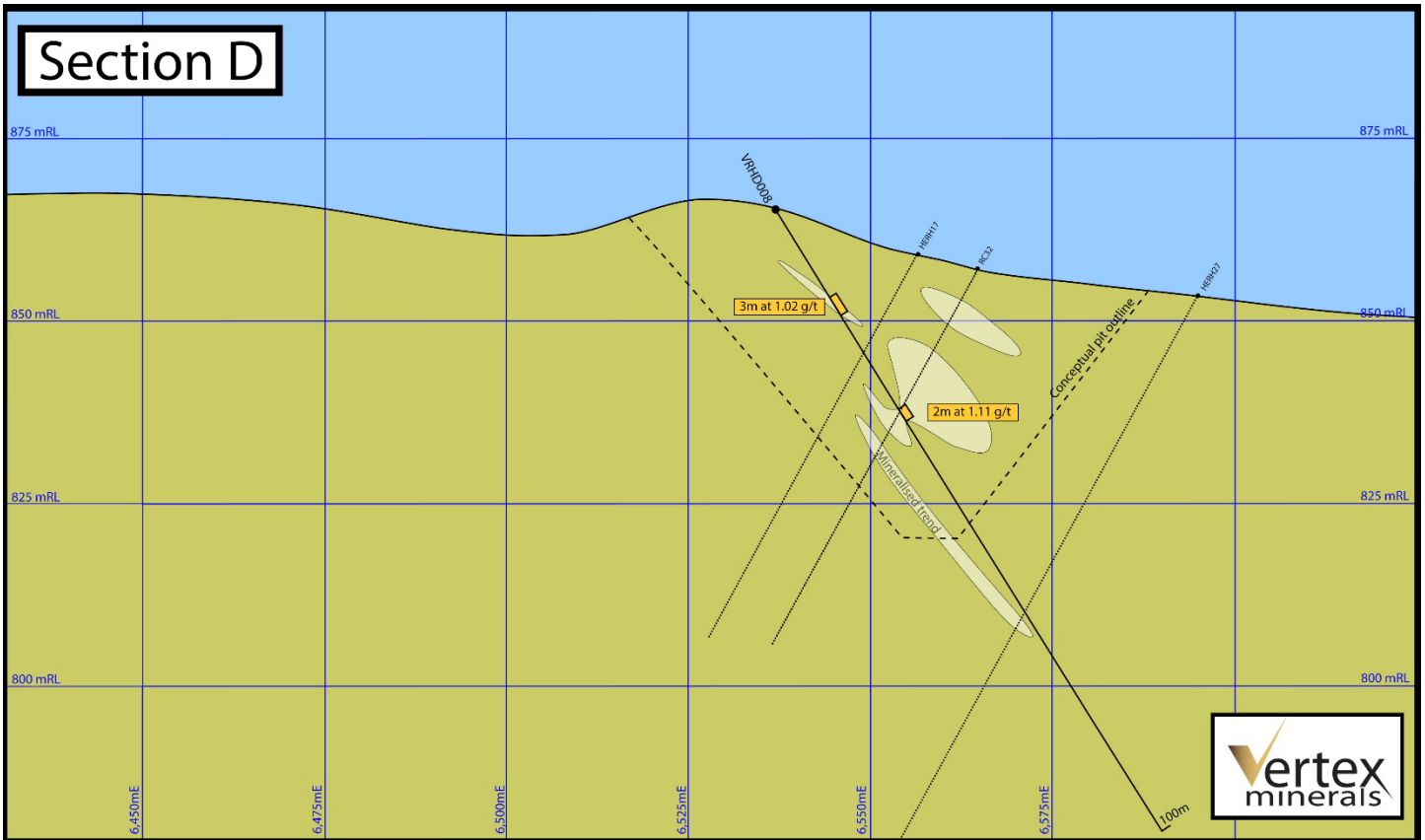


Figure 5 - Section 4 showing VRHD008



The Red Hill drill program aims to increase the mineral resource within 75m of surface, which will provide the foundation of a low-risk production plan to restart processing operations at Hill End. The planned 1,500m diamond core drill program is targeting the stockwork and halo zones that have the greatest potential to add significant tonnage to the resource whilst improving amenability to bulk mining methods. Vertex will look to commence pegging Red Hill for a Mining Licence in the first quarter of next year.

The Red Hill Mineral Resource forms approximately 1km of the 14km strike length at the Hill End Gold Project. The project has seen extensive historical mining, however, most of the previous workings were impeded by a high-water table. Consequently, the old workings at Red Hill are relatively shallow when compared to other areas of Hill End. Work completed in 2015 by Hill End Gold Limited ('HEG') culminated in a JORC 2012 resource estimate at the Red Hill Resource of **80,000 oz Au at 1.7 g/t to 150m** depth. The Mineral Resource estimate for the entire Hill End Project is summarised in Table 1.

**Table 1 Reward resource Table**

<b>Hill End Project Mineral Resource Estimate</b>				
<b>Deposit</b>	<b>Classification</b>	<b>Tonnes (kt)</b>	<b>Grade Au (g/t)</b>	<b>Contained Au (koz)</b>
<b>Reward Gold Mine</b>	Indicated	55	12.4	22
	Inferred	782	8.1	205
<b>Sub Total</b>		<b>837</b>	<b>8.5</b>	<b>227</b>
<b>Hargraves Project</b>	Indicated	1,109	2.7	97
	Inferred	1,210	2.1	80
<b>Sub Total</b>		<b>2,319</b>	<b>2.4</b>	<b>178</b>
<b>Red Hill Project</b>	Indicated	413	1.4	19
	Inferred	1,063	1.8	61
<b>Sub Total</b>		<b>1,476</b>	<b>1.7</b>	<b>80</b>
<b>Project Total</b>	Indicated	1,577	2.7	138
	Inferred	3,055	3.5	347
<b>Grand Total</b>		<b>4,632</b>	<b>3.3</b>	<b>485</b>

Reward Gold Mine: 2g/t reporting cutoff grade

Hargraves: 0.8 g/t reporting cutoff grade (ASX Announcement 29 May 2020).

Red Hill: 0.5 g/t per block, ordinary kriging grade interpolation, classified mineral Resources Limited to 160mRL below surface. (ASX Announcement November 2015)

Complete details of drill hole coordinates and corresponding assay results are included in Appendix 1 and 2.



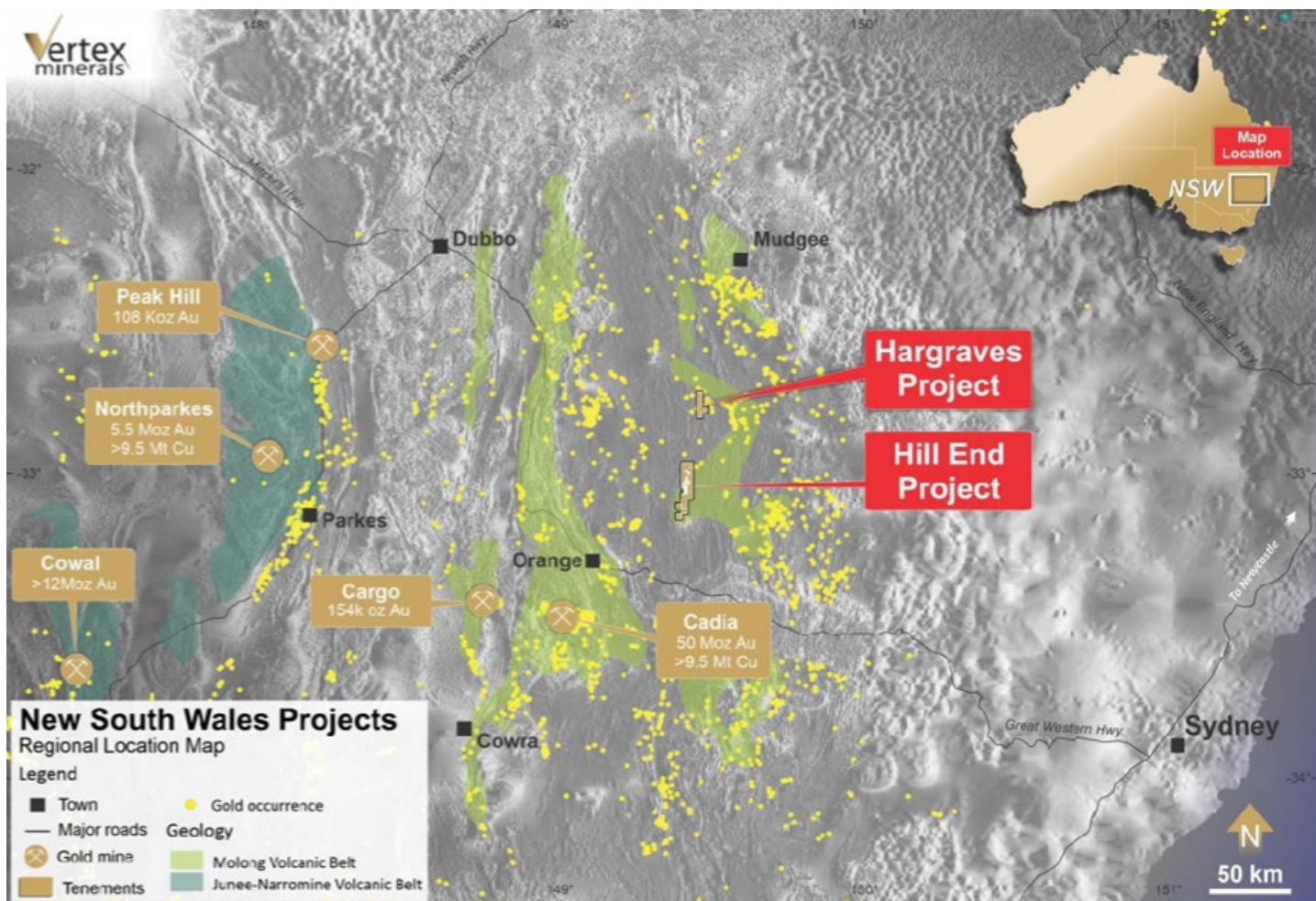


Figure 6: NSW mines and Vertex project locations

This announcement has been approved by the Board of Vertex Minerals Limited.

### **Further Information:**

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### **About Vertex Minerals Limited**

Vertex Minerals Limited (ASX: VTX) is an Australian based gold exploration company developing its advanced Hargraves and Hill End gold projects located in the highly prospective Eastern Lachlan Fold Belt of Central West NSW. Other Company assets include the Pride of Elvire gold project and Taylors Rock gold/nickel/lithium project both located in the Eastern Goldfields of WA. The focus of Vertex Minerals is to advance the commercial production of gold from its NSW projects embracing an ethical and environmentally sustainable approach, utilising the below attributes/techniques to uniquely positioning the company as Australia's first truly environmentally sustainable producer of **green gold**:

- **Gravity Separation:** The department of gold at the Hill End Project allows high recovery to a concentrate produced using gravity separation techniques.
- **Direct Smelting:** The use of direct smelting of a gold concentrate that eliminates the need to use cyanide as a solvent.
- **Contrast in Density:** These separation techniques take advantage of the contrast in density of gold ( $\rho=19.3$ ) relative to quartz ( $\rho=2.65$ ).
- **Renewable Energy:** The unique landscape and infrastructure makes Hill End ideal for the establishment of renewable sources of power. The Crudine Ridge Windfarm is only 30km from the project site and Vertex plans to examine a pumped hydro-electricity scheme as an integral part of any proposed development. The topography and existing mine workings including shafts and adits make the establishment of a pumped hydro scheme achievable at modest expense.
- **Benign Tailings:** The tailings will essentially be quartz with little to no sulphide minerals.

### **Hargraves Gold Project (NSW)**

- Hargraves Gold project is located approximately 2.5 km south of the town of Mudgee.
- The goldfield is 4 x 10 km with numerous mineralised structures with little modern exploration.
- An updated mineral resource in accordance with JORC 2012 Code was completed by SRK Consulting (Australasia) Pty Ltd (SRK) – total of **2.3Mt at 2.38g/t Au for 177koz Au**.

### **Hill End Gold Project (NSW)**

- Consists of 10 mining leases and three Exploration Licences located in the core of the Hill End Trough on the eastern Lachlan Fold Belt.
- 14km of continuous gold lode with gold recovery rate to gravity at +90% - **green gold**.
- Work undertaken in 2015 by Hill End Gold Limited (HEG) culminated in a JORC 2012 resource estimate of **80,000 oz Au @ 1.7 g/t to 150m depth**.

### **Pride of Elvire Gold Project (WA)**

- Tenements surround the Mt. Elvire homestead approximately 210km north of Southern Cross in Western Australia
- The project has seen historical drilling with encouraging gold results achieved.

### **Taylors Rock Project (WA)**

- Located 80km WSW of Norseman in the Southern Goldfields region of Western Australia.
- The project has both Gold and Nickel potential, interesting historical intercepts have recorded encouraging mineralisation.

## **JORC Compliance Statements**

This website contains references to Mineral Resource estimates, which have been extracted from previous ASX announcements as set out above made by Peak Resources Ltd (ASX:PUA), the parent company of VTX prior to the Company's separate listing in 2022. For full details of Exploration Results in this release that have been previously announced, refer to those announcements.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the said announcements, and in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not materially modified from the original market announcements.

## **Competent Persons Statement**

The information in this report that relates to Exploration Results and Exploration Targets is based on information compiled by Mr. Roger Jackson, a Director and Shareholder of the Company, who is a 25+ year Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM), Fellow of the Australian Institute of Geoscientists (FAIG) and a Member of Australian Institute of Company Directors. Mr. Jackson has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which he is undertaking 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". Mr. Jackson consents to the inclusion of the data contained in relevant resource reports used for this announcement as well as the matters, form and context in which the relevant data appears.

## **Forward Looking Statements and Important Notice**

This report contains forecasts, projections and forward-looking information. Although the Company believes that its expectations, estimates and forecast outcomes are based on reasonable assumptions it can give no assurance that these will be achieved. Expectations and estimates and projections and information provided by the Company are not a guarantee of future performance and involve unknown risks and uncertainties, many of which are out of Vertex Minerals' control.

Actual results and developments will almost certainly differ materially from those expressed or implied. Vertex Minerals has not audited or investigated the accuracy or completeness of the information, statements and opinions contained in this announcement. To the maximum extent permitted by applicable laws, Vertex Minerals makes no representation and can give no assurance, guarantee or warranty, express or implied, as to, and takes no responsibility and assumes no liability for the authenticity, validity, accuracy, suitability or completeness of, or any errors in or omission from, any information, statement or opinion contained in this report and without prejudice, to the generality of the foregoing, the achievement or accuracy of any forecasts, projections or other forward looking information contained or referred to in this report.

Investors should make and rely upon their own enquiries before deciding to acquire or deal in the Company's securities.



# APPENDIX 1 - RED HILL PROJECT – JORC CODE TABLE 1 CHECKLIST OF ASSESSMENT AND REPORTING CRITERIA

## Section 1: Sampling Techniques and Data

CRITERIA	JORC Code Explanation	Commentary
SAMPLING TECHNIQUES	<ul style="list-style-type: none"> <li>Nature and quality of sampling (e.g., cut 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.</li> </ul>	<ul style="list-style-type: none"> <li>The quality of diamond coring is generally medium–high because the method is designed to sample the rock mass effectively in most conditions. Consequently, these samples can be representative of the interval drilled and can be used for Mineral Resource estimation.</li> </ul>
	<ul style="list-style-type: none"> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> </ul>	<ul style="list-style-type: none"> <li>Diamond drilling is also an established method aimed at collecting representative samples of the interval being drilled.</li> </ul>
	<ul style="list-style-type: none"> <li>Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g., 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was 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 (e.g., submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul style="list-style-type: none"> <li>Economic gold mineralisation is measured in terms of parts per million and therefore rigorous sampling techniques must be adopted to ensure quantitative, precise measurements of gold concentration. If gold is present as medium – coarse grains, the entire sampling, sub-sampling, and analytical process must be more stringent. Red Hill gold is coarse grained.</li> </ul>
DRILLING TECHNIQUES	<ul style="list-style-type: none"> <li>Drill type (e.g., core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g., core diameter, triple or standard tube, depth of diamond tails, face-sampling bit, or other type, whether core is oriented and if so, by what method, etc).</li> </ul>	<ul style="list-style-type: none"> <li>Diamond Drilling in HQ triple tube size were drilled at Red Hill in 2022. All holes were oriented using a Bort Longyear™ TrueCore™ Core Orientation Tool.</li> </ul>
DRILL SAMPLE RECOVERY	<ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: Sample recovery was measured on a per-run basis and generally reported to be greater than 95%, except where drilling in the upper, weathered, and oxidised zones. However, Vertex also reported some core loss associated with zones of alteration and mineralisation that could result in potential for sample bias.</li> </ul>
	<ul style="list-style-type: none"> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: Used chrome barrels and controlled drilling in broken ground to maximise sample recovery.</li> </ul>
	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>No assessment has been completed to determine if there is a relationship between sample recovery and grade, and whether there is any potential for sample bias associated with the drilling methods used to date.</li> </ul>

CRITERIA	JORC Code Explanation	Commentary
LOGGING	<ul style="list-style-type: none"> <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> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: Drill core was logged for lithology, structure, alteration, mineralisation, and veining, which is deemed to be appropriate for the style of mineralisation and the lithologies encountered. All core was photographed. Logging information is adequate to support Mineral Resource estimation. Information to support geotechnical studies is available.</li> </ul>
	<ul style="list-style-type: none"> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: Logging of core is mostly qualitative, except for some semi-quantitative logging of sulphide content, quartz veining, RQD, and geotechnical parameters.</li> </ul>
	<ul style="list-style-type: none"> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: Geological logs were completed for all drilled intervals.</li> </ul>
SUB-SAMPLING TECHNIQUES AND SAMPLE PREPARATION	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: Vertex cut core samples in half or quarter using a diamond saw and where appropriate used geological contacts or mineralisation to define sample intervals.</li> </ul>
	<ul style="list-style-type: none"> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> </ul>	<ul style="list-style-type: none"> <li>No non-core drilling has been undertaken. RC drilling was suspended.</li> </ul>
	<ul style="list-style-type: none"> <li>For all sample types, the nature, quality, and appropriateness of the sample preparation technique.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: Half core yet to be submitted for assaying</li> </ul>
	<ul style="list-style-type: none"> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: Drill core samples of cut core were consistently taken from the same side of the orientation line on the core to maintain consistency.</li> </ul>
	<ul style="list-style-type: none"> <li>Measures taken to ensure that the sampling is representative of the <i>in-situ</i> material collected, including for instance results for field duplicate/second-half sampling.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex drilling: QA/QC procedures included the insertion of quarter core field duplicates at the insertion rate of 1 in 20 samples. Field blanks will also submitted to the laboratory.</li> </ul>
	<ul style="list-style-type: none"> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul style="list-style-type: none"> <li>The larger HQ3 size core was chosen to cater for the nuggety effect</li> </ul>
QUALITY OF ASSAY DATA AND LABORATORY TESTS	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> </ul>	<ul style="list-style-type: none"> <li>Gold determination was made by Fire Assay using a 50g charge which is considered appropriate yet partial. Significant intersections will be followed up by Screen Fire, which is considered total.</li> </ul>

CRITERIA	JORC Code Explanation	Commentary
	<ul style="list-style-type: none"> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (e.g., standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e., lack of bias) and precision have been established.</li> </ul>	<ul style="list-style-type: none"> <li>No geophysical tools, spectrometers, or handheld XRF instruments have been used to date to determine chemical composition at a semi-quantitative level of accuracy.</li> <li>No samples have been dispatched to date.</li> </ul>
VERIFICATION OF SAMPLING AND ASSAYING	<ul style="list-style-type: none"> <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>	<ul style="list-style-type: none"> <li>It has not been possible to independently verify significant intersections to date.</li> <li>There has been no use of twinned holes to date.</li> <li>Vertex drilling: Primary logging data was recorded digitally onto electronic spread sheets and validated against code tables by the logging geologist. Primary analytical data was received electronically in csv file format and imported directly into an electronic assay register spread sheet. Data validation was conducted by comparing the spreadsheet data against the Certificate of Analysis supplied as a secured pdf file by the laboratory.</li> <li>No adjustments to assay data have been made.</li> </ul>
LOCATION OF DATA POINTS	<ul style="list-style-type: none"> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> </ul>	<ul style="list-style-type: none"> <li>Vertex surface drilling: Drillhole collar locations were initially set out (and reported) using a handheld GPS with a location error of +/- 5m. All holes will be subsequently surveyed by contract surveyor to a sub-metre accuracy, with data supplied electronically as spreadsheets and pdf files. The azimuth and dip at the start of the hole was recorded using a line of sight</li> </ul>

CRITERIA	JORC Code Explanation	Commentary
		Suunto compass and Suunto clinometer by the site geologist. The orientation and dip of drillholes are measured with downhole surveys @ 15 m, 30 m, then every 30 m using a Bort Longyear™ TrueShot™ single/multi-shot survey tool. End of hole surveys were also taken for each hole. At hole completion, all holes were gyro surveyed. Vertex also employed a contract surveyor to survey the as-drilled drillhole collars to sub-metre accuracy.
	<ul style="list-style-type: none"> <li>• Specification of the grid system used.</li> </ul>	<ul style="list-style-type: none"> <li>• The co-ordinate system used is MGA94 Zone 55 Datum.</li> </ul>
	<ul style="list-style-type: none"> <li>• Quality and adequacy of topographic control.</li> </ul>	<ul style="list-style-type: none"> <li>• Quality of the surface topographic control data is poor and is currently reliant on public domain data. A lidar survey has been undertaken</li> </ul>
DATA SPACING AND DISTRIBUTION	<ul style="list-style-type: none"> <li>• Data spacing for reporting of Exploration Results.</li> </ul>	<ul style="list-style-type: none"> <li>• The spacing of drillhole data is variable.</li> </ul>
	<ul style="list-style-type: none"> <li>• Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> </ul>	<ul style="list-style-type: none"> <li>• There are no Mineral Resources or Ore Reserves.</li> <li>• There is insufficient drill spacing to establish the degree of geological and grade continuity appropriate for Mineral Resource and Ore Reserve estimation.</li> </ul>
	<ul style="list-style-type: none"> <li>• Whether sample compositing has been applied.</li> </ul>	<ul style="list-style-type: none"> <li>• No sample compositing was carried out on site.</li> </ul>
ORIENTATION OF DATA IN RELATION TO GEOLOGICAL STRUCTURE	<ul style="list-style-type: none"> <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> </ul>	<ul style="list-style-type: none"> <li>• Drillholes were oriented to intersect the interpreted mineralisation zones as oblique (perpendicular) as possible. Orientated drill core collected by Vertex has confirmed the orientation of drilling.</li> <li>• To the extent known, drilling is assumed to be unbiased.</li> </ul>
	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>• No sampling bias is considered to have been introduced in drilling completed.</li> </ul>
SAMPLE SECURITY	<ul style="list-style-type: none"> <li>• The measures taken to ensure sample security.</li> </ul>	<ul style="list-style-type: none"> <li>• Vertex drilling: Drilling and sampling was supervised and undertaken by company staff.</li> </ul>

CRITERIA	JORC Code Explanation	Commentary
AUDITS OR REVIEWS	<ul style="list-style-type: none"> <li>• The results of any audits or reviews of sampling techniques and data.</li> </ul>	<ul style="list-style-type: none"> <li>• Vertex drilling: Internal auditing procedures and reviews were regularly undertaken on sampling techniques, standard operating procedures, and laboratory processes.</li> </ul>

## Section 2: Reporting of Exploration Results

CRITERIA	JORC Code explanation	Commentary																																																															
MINERAL TENEMENT AND LAND TENURE STATUS	<ul style="list-style-type: none"> <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> </ul>	<ul style="list-style-type: none"> <li>The Project tenements comprise EL5868. All licences are 100% held by Vertex Resources Pty Ltd.</li> </ul>																																																															
	<ul style="list-style-type: none"> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul>	<ul style="list-style-type: none"> <li>All tenements are in good standing.</li> </ul>																																																															
EXPLORATION DONE BY OTHER PARTIES	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<table border="1"> <thead> <tr> <th>Year</th> <th>Company</th> <th>Drill Type</th> <th>Holes Drilled</th> <th>RC (m)</th> <th>DD (m)</th> <th>Total Drilled (m)</th> </tr> </thead> <tbody> <tr> <td>1984</td> <td>Flanagan McAdam Resources Incorporated</td> <td>DD</td> <td>8</td> <td></td> <td>1,674.07</td> <td>1,674.07</td> </tr> <tr> <td>1989</td> <td>BHP-Utah Minerals International</td> <td>RC</td> <td>28</td> <td>2,248</td> <td></td> <td>2,248</td> </tr> <tr> <td>2004</td> <td>HEG Limited</td> <td>RC</td> <td>42</td> <td>3,136</td> <td></td> <td>3,136</td> </tr> <tr> <td>2006</td> <td>HEG Limited</td> <td>RC/DD</td> <td>31</td> <td>1,835</td> <td>1,061.7</td> <td>2,896.7</td> </tr> <tr> <td>2007</td> <td>HEG Limited</td> <td>RC/DD</td> <td>18</td> <td>1,551</td> <td>581.3</td> <td>2,132.3</td> </tr> <tr> <td>2008</td> <td>HEG Limited</td> <td>RC/DD</td> <td>19</td> <td>394</td> <td>4,179.8</td> <td>4,573.8</td> </tr> <tr> <td>2011</td> <td>HEG Limited</td> <td>RC</td> <td>9</td> <td>591</td> <td></td> <td>591</td> </tr> <tr> <td colspan="3"><b>Total Included in Current Resource</b></td> <td><b>155</b></td> <td><b>9,755</b></td> <td><b>7,496.87</b></td> <td><b>17,251.87</b></td> </tr> </tbody> </table>	Year	Company	Drill Type	Holes Drilled	RC (m)	DD (m)	Total Drilled (m)	1984	Flanagan McAdam Resources Incorporated	DD	8		1,674.07	1,674.07	1989	BHP-Utah Minerals International	RC	28	2,248		2,248	2004	HEG Limited	RC	42	3,136		3,136	2006	HEG Limited	RC/DD	31	1,835	1,061.7	2,896.7	2007	HEG Limited	RC/DD	18	1,551	581.3	2,132.3	2008	HEG Limited	RC/DD	19	394	4,179.8	4,573.8	2011	HEG Limited	RC	9	591		591	<b>Total Included in Current Resource</b>			<b>155</b>	<b>9,755</b>	<b>7,496.87</b>	<b>17,251.87</b>
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GEOLOGY	<ul style="list-style-type: none"> <li>Deposit type, geological setting, and style of mineralisation.</li> </ul>	<p>The Red Hill system lies within a mineralised corridor on the east limb of the Hill End Anticline. It is hosted by thin to thick bedded turbidites, massive quartzose feldspathic volcanoclastic sandstones, siltstone and shale of the Early Devonian (416-407 Ma) Crudine Group, metamorphosed to greenschist facies. The mineralised corridor generally parallels the axis of the Hill End Anticline, which strikes 020° and plunges gently to the north with a relatively broad, regular axial crest.</p> <p>A series of bedding-parallel NNW-striking, moderately east dipping gold mineralised shoots on the east limb of the Hill End Anticline are a single linked system of bedding-parallel quartz veins that carry shoots of high-grade Au mineralisation where they intersect a zone of low displacement faults that strike NNE and dip steeply east. The most significant high-grade Au-mineralised quartz veins within the mineralised corridor appear to be bedding-parallel, and are often in the immediate footwall or hangingwall of especially thick, coarse-grained mechanically strong turbidite units. Bedding dips relatively steeply (65°-90° east) within the mineralised zone at Red Hill, which is steeper than is expected for the local fold geometry (dip 45°-60° east). This suggests an additional structural influence whereby bedding has locally been rotated to be near-parallel to the cleavage as a result of the action of the low-displacement faults.</p> <p>The low displacement faults are poorly identified in outcrop and drill core, but appears to cause, or are localised by, a flexure or kink along a steeper-dipping portion of the eastern limb of the Hill End Anticline. This steepening of the east limb is most strongly developed in the Red Hill zone of the system, decreasing north through the Valentine into the Emily zone and south through White's zone. Vein sets within the Red Hill zone will intersect Indicator-type faults at a lower angle and have larger areas of intersection and reaction, resulting in greater tonnage of high-grade Au mineralisation.</p>																																																															



CRITERIA	JORC Code explanation	Commentary
DRILL HOLE INFORMATION	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <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> </ul>	<ul style="list-style-type: none"> <li>Refer to Appendix 2.</li> </ul>
	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Refer to Appendix 2.</li> </ul>
DATA AGGREGATION METHODS	<ul style="list-style-type: none"> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g., cutting of high grades) and cut-off grades are usually Material and should be stated.</li> </ul>	<ul style="list-style-type: none"> <li>No results are being reported</li> </ul>
	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>No grades are reported</li> </ul>
	<ul style="list-style-type: none"> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul style="list-style-type: none"> <li>No metal equivalents are reported.</li> </ul>
RELATIONSHIP BETWEEN MINERALISATION WIDTHS AND INTERCEPT LENGTHS	<ul style="list-style-type: none"> <li>These relationships are particularly important in the reporting of Exploration Results.</li> </ul>	<ul style="list-style-type: none"> <li>No local grid has been applied.</li> </ul>
	<ul style="list-style-type: none"> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> </ul>	<ul style="list-style-type: none"> <li>Drillholes were oriented perpendicular to the strike of the shear zone and angled in order to intersect the moderately dipping mineralised zones at a high angle.</li> </ul>
	<ul style="list-style-type: none"> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g., 'down hole length, true width not known').</li> </ul>	<ul style="list-style-type: none"> <li>The mineralised intercepts generally intersect the interpreted dip of the mineralisation at a high angle but are not true widths.</li> </ul>
DIAGRAMS	<ul style="list-style-type: none"> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	<ul style="list-style-type: none"> <li>Refer to figures contained within this report.</li> </ul>
BALANCED REPORTING	<ul style="list-style-type: none"> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</li> </ul>	<ul style="list-style-type: none"> <li>Balanced reporting of Exploration Results is presented within this report.</li> </ul>
OTHER SUBSTANTIVE EXPLORATION DATA	<ul style="list-style-type: none"> <li>Other exploration data, if meaningful and material, should be reported including (but not limited to): 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.</li> </ul>	<ul style="list-style-type: none"> <li>The Project includes a large amount of exploration data collected by previous companies, including regional stream sediment geochemical data, soil sample and rock chip data, geological mapping data, drilling data, geophysical survey data, and costean data. Much of this data has been captured and validated into a GIS database.</li> <li>Previous mining has been limited and involved very selective mining and hand sorting. No systematic data has been collected to date to assess metallurgy and mining parameters relevant to a modern operation.</li> </ul>

CRITERIA	JORC Code explanation	Commentary
FURTHER WORK	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (e.g., tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> </ul>	<ul style="list-style-type: none"> <li>Vertex plans to conduct further drilling followed by Resourcing, met work, tailings characterization, waste characterization to then undertake a scoping study</li> </ul>
	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Refer to figures contained within this report.</li> </ul>

## APPENDIX 2 - RED HILL DRILLING INFORMATION

Company	Target	Hole ID	Hole Type	East (MGA)	North (MGA)	RL	Depth (m)	Dip (°)	Azimuth (° Mag)	Licence	Year
Vertex	Red Hill	VRHD001	Diamond	726435	6346812	841	51.5	-60	281	EL 5868	2022
Vertex	Red Hill	VRHD002	Diamond	726454	6346857	845	81.8	-90	0	EL 5868	2022
Vertex	Red Hill	VRHD003	Diamond	726493	6346892	854	108.5	-60	274	EL 5868	2022
Vertex	Red Hill	VRHD004	Diamond	726517	6346921	857	135	-65	276	EL 5868	2022
Vertex	Red Hill	VRHD005	Diamond	726488	6346863	855	102.6	-70	280	EL 5868	2022
Vertex	Red Hill	VRHD006	Diamond	726455	6346894	853	78.5	-59	280	EL 5868	2022
Vertex	Red Hill	VRHD007	Diamond	726532	6347249	867	60	-64	104	EL 5868	2022
Vertex	Red Hill	VRHD008	Diamond	726537	6347298	865	100.5	-55	100	EL 5868	2022