

Corporate Details Zenith Minerals Limited (ASX:ZNC) ABN: 96 119 397 938

Sharos 204.4

Issued Shares 294.4M
Unlisted options 9.6M
Mkt. Cap. (\$0.11) \$32M
Cash (30 Jun 20) \$0.97M + \$5.1M*
*Share Issue July 20 (before costs)
Debt Nil

Directors

Peter Bird** Non-Exec Chair
Michael Clifford Managing Director
Stan Macdonald Non-Exec Director
Julian Goldsworthy Non-Exec Director
Graham Riley Non-Exec Director
Mike Joyce** Non-Exec Director
Melinda Nelmes CFO & Co Sec

(**effective 30 Sep 2020)

Major Shareholders

| Directors | ~13% |
|--------------------|------|
| HSBC Custody. Nom. | 10% |
| J P Morgan | 5.0% |
| Miquilini | 3.9% |
| Abingdon | 3.5% |

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NEW GOLD RESULTS FROM DRILLING AT RED MOUNTAIN

- New gold assay results now received for a further 6 RC drill holes from 14 holes recently completed at the 100% owned Red Mountain gold project located in Queensland. New high-grade gold results with very wide mineralised zones include:
 - ZRMRC021 4m @ 4.6 g/t Au from 48m plus 7m @ 2.6 g/t Au from 61m and 8m @ 3.9 g/t Au from 100m depth within wide mineralised envelope of 108m @ 1.1 g/t Au.
 - ZRMRC022 2m @ 1.8 g/t Au from 20m depth and 4m @ 1.2 g/t Au from 48m depth, within wide mineralised envelope of 71m @ 0.4 g/t Au.
 - ZRMRC020 4m @ 1.0 g/t Au from 60m depth and 4m @ 3.7 g/t Au from 114m depth, within wide mineralised envelope of 104m @ 0.4 g/t Au.
- Previously reported high-grade near surface gold results, include:
 - 12m @ 8.9 g/t Au from 68m depth, including 4m @ 25.9 g/t Au.
 - 13m @ 8.0 g/t Au & 3.2 g/t Ag from surface, including 6m @ 16.7 g/t Au & 5.3g/t Ag.
 - 5m @ 3.5 g/t Au & 54.3 g/t Ag from 64m, including 2m @ 8.0 g/t Au & 109.4 g/t Ag.
 - 10m @ 2.7 g/t Au from surface, including 4m @ 4.9 g/t Au
- Gold mineralisation now outlined over ~300m of strike on western flank of vent structure, and remaining open at depth and along strike to the south where recently completed RC drill holes have been logged as intersecting similar rock types and alteration to that hosting gold mineralisation.
- Gold assay results are pending for a further 6 RC drill holes, including the first 2 holes drilled on the north eastern flank, whilst silver results are pending for 21 holes.
- The Company is currently assessing options to accelerate activities at Red Mountain including mobilising a diamond drill rig to site.

A major follow-up RC drill campaign is progressing well at the 100% owned Red Mountain gold project in Queensland (Figure 1). New results from a further 6 RC drill holes, from 14 holes recently completed, have now been received outlining both high-grade gold mineralisation as well as very wide zones of lower grade gold on the western flank of the Red Mountain breccia pipe (Figures 2-4).

CEO COMMENTS

Commenting on the current drilling activity, CEO Mick Clifford said: "These new results provide further encouragement at Red Mountain, both the high tenor of gold as well as the wide lower grade gold attest to a large

mineralising system. We know that the Mt Wright gold mine that we are using as an exploration analogue only had a very limited strike length of 200m but had amazing vertical continuity of over 1km. As drilling progresses at Red Mountain, particularly with diamond core the overall orientation of the gold mineralisation will become clearer".

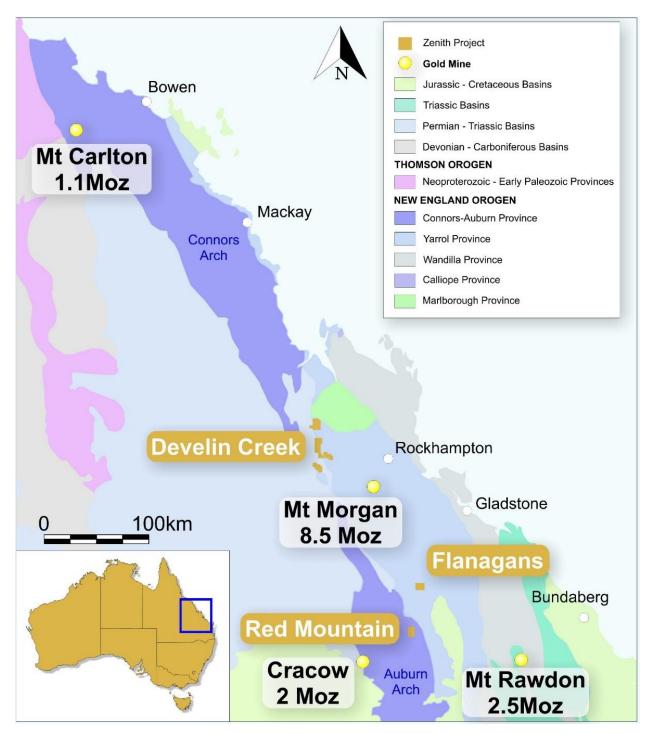


Figure 1: Red Mountain Project - Location Map

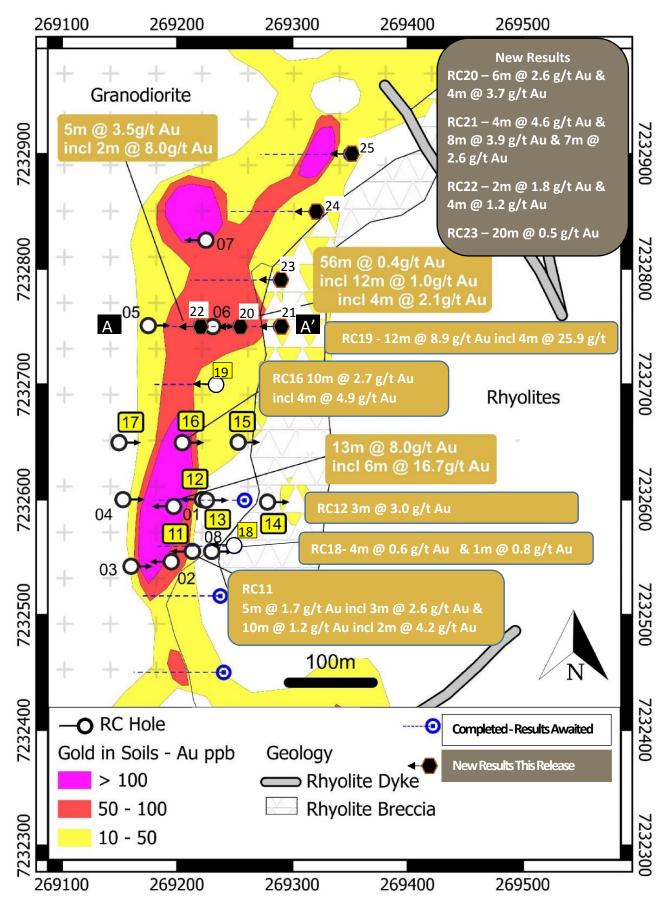


Figure 2: Red Mountain Plan Showing Significant New Results and Status of Drilling

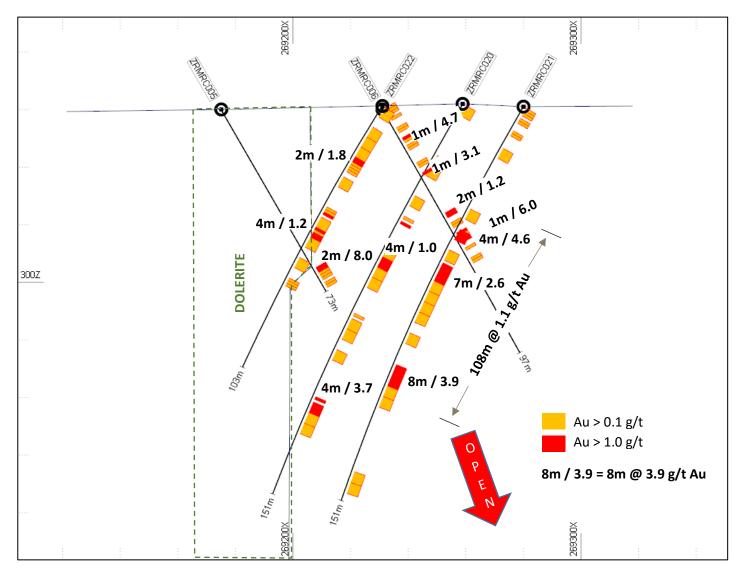


Figure 3: Red Mountain Cross Section A – A' Showing Significant Results

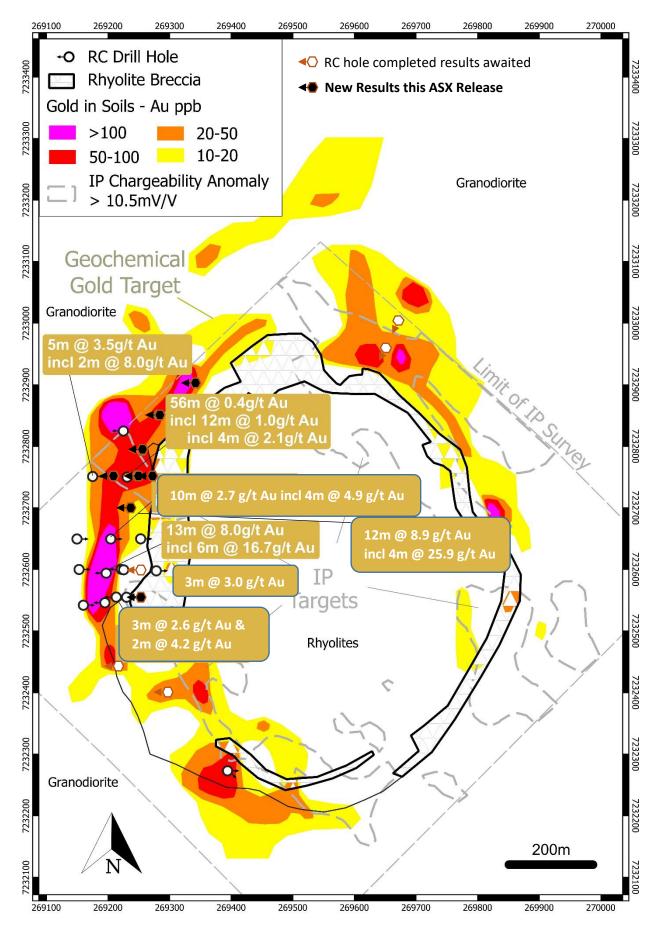


Figure 4: Red Mountain Plan Showing Significant Results and Drill Targets

Red Mountain - Drill Program Rationale

Results from drilling to date at the Red Mountain Gold Project outline a zone of high-grade near surface gold mineralisation in a steep easterly dipping zone hosted by altered granitoid rocks, on the western margin of a sub-vertical felsic volcanic breccia pipe. The project is in south east Queensland, lying about halfway between two gold mines Cracow (ASX:AUR) and Mount Rawdon (ASX:EVN) (Figure 1).

Mineralisation at Red Mountain is considered by Zenith to be analogous to known gold deposits in Queensland. Evidence includes a zoned system with geochemistry like that documented at third party owned Queensland gold deposits such as Mt Wright which is located 65km east of Charters Towers and the nearby Mount Rawdon Gold Mine.

The current drill program includes holes drilled east to west on 50m spaced sections, stepping out north and south of the zone of known mineralisation to provide approximately 500m of strike coverage (see planned drill holes on Figures 2 & 4). This area is part of a larger total target zone extending some 2.2 km around the rim of the breccia pipe (Figure 4).

For further background on the Red Mountain project refer to recent ASX releases by the Company on the 22nd July 2020, 3rd August 2020, 24th August 2020 and 9th & 21st September 2020).

Details of New Results

Sampling from the current drill campaign was completed on a routine 4m composite basis with selected 1m sampling based on visual estimates of alteration, sulphides and other geological criteria. Assaying of 1m samples for gold mineralised 4m composites will now be completed. Results for the initial 4m samples from the holes ZRMRC018 - 025 are included. Mineralised composite samples will now be resubmitted at 1m intervals for analysis of gold and silver.

Table 1: Significant Gold Intersections from Red Mountain

| | Original 1-4m Samples | | | nal 1-4m Samples 1m Re-samples | | | | | | |
|----------|-----------------------|-----------|-----------------|--------------------------------|-------------|-----------|-----------------|----------------------|-------------------|------------|
| Hole | From (m) | To (m) | Interval (m) | Original Au Grade (g/t) | From (m) | To (m) | Interval (m) | Au Grade (g/t) | Ag Grade (g/t) | Comments |
| ZRMRC001 | 0 | 14 | 14 | 5.5 | 0 | 13 | 13 | 8.0 | 3.2 | |
| incl | 0 | 6 | 6 | 12.3 | 0 | 6 | 6 | 16.7 | 5.3 | |
| ZRMRC002 | 0 | 6 | 6 | 0.6 | 0 | 3 | 3 | 0.7 | 0.2 | |
| incl | | | | | 1 | 2 | 1 | 1.2 | 0.5 | |
| and | 26 | 30 | 4 | 0.7 | | | | NSR | | |
| ZRMRC003 | 67 | 68 | 1 | 0.8 | 67 | 68 | 1 | 0.8 | 10.2 | |
| ZRMRC004 | | | | NSR | | | | | | |
| ZRMRC005 | 64 | 69 | 5 | 3.5 | 64 | 69 | 5 | 3.5 | 54.3 | |
| incl | 64 | 66 | 2 | 8.0 | 64 | 66 | 2 | 8.0 | 109.4 | |
| ZRMRC006 | 12 | 14 | 2 | 2.6 | 12 | 14 | 2 | 2.6 | 7.8 | Previously |
| and | 25 | 29 | 4 | 0.9 | 26 | 27 | 1 | 3.1 | 13.6 | reported |
| and | 42 | 54 | 12 | 1.0 | 42 | 54 | 12 | 1.0 | 9.8 | |
| incl | 42 | 44 | 2 | 1.2 | 42 | 44 | 2 | 1.2 | 17.7 | |
| and incl | 47 | 48 | 1 | 0.6 | 47 | 48 | 1 | 0.6 | 13.5 | |
| and incl | 50 | 54 | 4 | 2.1 | 50 | 54 | 4 | 2.1 | 14.2 | |
| incl | 50 | 51 | 1 | 6.0 | 50 | 51 | 1 | 6.0 | 20.2 | |
| and incl | 53 | 54 | 1 | 2.0 | 53 | 54 | 1 | 2.0 | 26.5 | |
| ZRMRC007 | 36 | 37 | 1 | 0.8 | 36 | 37 | 1 | 0.8 | 45.0 | |
| ZRMRC008 | 64 | 65 | 1 | 0.4 | 64 | 65 | 1 | 0.4 | 65.1 | |
| ZRMRC009 | | | | NSR | | | | NSR | | |
| ZRMRC010 | | | | NSR | 43 | 44 | 1 | 0.0 | 51.6 | |

| ZRMRC011 | 25 | 30 | 5 | 1.7 | | | | | |
|----------|-----|-----|----|------|-----|-----|----|-----|-----------------|
| incl | 25 | 28 | 3 | 2.6 | | | | | - |
| and | 35 | 43 | 8 | 1.4 | 37 | 47 | 10 | 1.2 | |
| incl | 35 | 39 | 4 | 2.4 | 37 | 41 | 4 | 2.4 | |
| incl | | | | | 37 | 39 | 2 | 4.2 | |
| ZRMRC012 | 15 | 16 | 1 | 0.4 | | | | | |
| and | 29 | 33 | 4 | 0.8 | | | | | |
| incl | 32 | 33 | 1 | 1.5 | | | | | |
| and | 39 | 44 | 5 | 0.9 | 38 | 44 | 6 | 1.7 |] |
| incl | | | | | 40 | 43 | 3 | 3.0 |] |
| incl | 39 | 43 | 4 | 1.1 | | | | | |
| and | 77 | 80 | 3 | 0.5 | | | | |] |
| ZRMRC013 | | | | NSR | | | | | Previously |
| ZRMRC014 | | | | NSR | | | | | Reported |
| ZRMRC015 | | | | NSR | | | | |] ' |
| ZRMRC016 | 0 | 12 | 12 | 2.2 | 0 | 10 | 10 | 2.7 | |
| incl | 0 | 8 | 8 | 3.1 | 0 | 4 | 4 | 4.9 | |
| incl | | | | | 5 | 6 | 1 | 1.4 | |
| incl | | | | | 7 | 9 | 2 | 2.4 | |
| ZRMRC017 | 77 | 78 | 1 | 1.0 | | | | | |
| and | 86 | 87 | 1 | 0.7 | | | | | |
| and | 99 | 101 | 2 | 0.9 | 100 | 101 | 1 | 1.0 | |
| | | | | | 107 | 111 | 4 | 0.4 | |
| incl | | | | | 108 | 109 | 1 | 0.9 | |
| and | 116 | 118 | 2 | 1.9 | | | | | |
| ZRMRC018 | 8 | 12 | 4 | 0.6 | | | | | |
| | 85 | 86 | 1 | 0.8 | | | | | Previously |
| ZRMRC019 | 12 | 16 | 4 | 0.6 | | | | | reported 4m |
| | 56 | 60 | 4 | 1.6 | | | | | Composites, |
| | 68 | 80 | 12 | 8.8 | | | | | 1m sample |
| incl | 68 | 72 | 4 | 25.9 | | | | | results awaited |
| | 104 | 108 | 4 | 0.6 | | | | | |
| ZRMRC020 | 36 | 40 | 4 | 0.7 | | | | | |
| | 46 | 47 | 1 | 3.2 | | | | | |
| | 60 | 64 | 4 | 1.0 | | | | | |
| | 84 | 88 | 4 | 0.7 | | | | | |
| | 114 | 120 | 6 | 2.6 | | | | | |
| incl | 114 | 115 | 1 | 1.0 | | | | | |
| and | 116 | 120 | 4 | 3.7 | | | | | New results |
| ZRMRC021 | 48 | 52 | 4 | 4.6 | | | | | MEM IESUITS |
| | 61 | 76 | 15 | 1.4 | | | | | |
| incl | 61 | 68 | 7 | 2.6 | | | | | |
| | 100 | 108 | 8 | 3.9 | | | | | |
| | 144 | 148 | 4 | 0.5 | | | | | |
| ZRMRC022 | 0 | 12 | 12 | 0.4 | | | | | |
| | 20 | 26 | 6 | 0.9 | | | | | |
| incl | 20 | 22 | 2 | 1.8 | | | | | |

| ZRMRC022 | | | | | | | |
|----------|----|----|----|-----|--|--|-------------|
| (cont) | 42 | 43 | 1 | 1.2 | | | |
| | 48 | 52 | 4 | 1.2 | | | |
| incl | 48 | 49 | 1 | 1.0 | | | |
| and | 50 | 52 | 2 | 1.5 | | | |
| | 60 | 64 | 4 | 0.7 | | | New Results |
| | 69 | 70 | 1 | 0.5 | | | |
| ZRMRC023 | 68 | 88 | 20 | 0.5 | | | |
| ZRMRC024 | 14 | 16 | 2 | 0.6 | | | |
| | 84 | 85 | 1 | 1.9 | | | |
| ZRMRC025 | | | | NSR | | | |

High-grade intersections are length weighted average grades with minimum cut -off grade of 1.0g/t Au and no internal dilution, whilst lower grade intersections are length weighted average grades with minimum cut-off grade of 0.4g/t Au and maximum internal dilution of 4m. High-grade silver with low gold reported above 30 g/t Ag cut-off grade.

Mineralised envelopes for holes ZRMRC20-22 reported on page 1 of this report are length weighted average grades with minimum cut-off grade of 0.2g/t Au and maximum internal dilution of 14m.

Table 2 Red Mountain Drill Collars

| Hole_ID | Hole_Type | Easting | Northing | RL | Depth (m) | Azimuth | Dip |
|----------|-----------|---------|----------|-----|-----------|---------|-----|
| ZRMRC001 | RC | 269197 | 7232594 | 360 | 79 | 270 | -60 |
| ZRMRC002 | RC | 269195 | 7232546 | 360 | 75 | 270 | -60 |
| ZRMRC003 | RC | 269160 | 7232542 | 360 | 75 | 90 | -60 |
| ZRMRC004 | RC | 269153 | 7232600 | 360 | 75 | 90 | -60 |
| ZRMRC005 | RC | 269175 | 7232751 | 360 | 73 | 90 | -60 |
| ZRMRC006 | RC | 269231 | 7232750 | 360 | 97 | 90 | -60 |
| ZRMRC007 | RC | 269225 | 7232825 | 360 | 73 | 270 | -60 |
| ZRMRC008 | RC | 269230 | 7232555 | 360 | 79 | 90 | -60 |
| ZRMRC009 | RC | 269394 | 7232273 | 360 | 64 | 130 | -60 |
| ZRMRC010 | RC | 269394 | 7232273 | 360 | 90 | 90 | -60 |
| ZRMRC011 | RC | 269218 | 7232555 | 359 | 151 | 270 | -60 |
| ZRMRC012 | RC | 269224 | 7232600 | 362 | 145 | 270 | -60 |
| ZRMRC013 | RC | 269226 | 7232599 | 363 | 151 | 90 | -60 |
| ZRMRC014 | RC | 269275 | 7232596 | 364 | 127 | 90 | -60 |
| ZRMRC015 | RC | 269253 | 7232650 | 366 | 151 | 90 | -60 |
| ZRMRC016 | RC | 269207 | 7232649 | 364 | 145 | 90 | -60 |
| ZRMRC017 | RC | 269151 | 7232650 | 363 | 127 | 90 | -60 |
| ZRMRC018 | RC | 269250 | 7232560 | 360 | 140 | 270 | -60 |
| ZRMRC019 | RC | 269235 | 7232700 | 360 | 157 | 270 | -60 |
| ZRMRC020 | RC | 269259 | 7232752 | 362 | 151 | 270 | -60 |
| ZRMRC021 | RC | 269280 | 7232748 | 361 | 151 | 270 | -60 |
| ZRMRC022 | RC | 269231 | 7232749 | 361 | 103 | 270 | -58 |
| ZRMRC023 | RC | 269293 | 7232793 | 360 | 151 | 270 | -58 |
| ZRMRC024 | RC | 269318 | 7232850 | 361 | 157 | 270 | -58 |
| ZRMRC025 | RC | 269347 | 7232906 | 355 | 151 | 270 | -58 |

Authorised for release by the Zenith Minerals Limited Board of Directors – 28th September 2020

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About Zenith

Zenith has a vision to build a gold and base metals business with a team of proven project finders. Focus is on 100% owned Zenith projects, whilst partners progress multiple additional opportunities using third party funds.

Zenith is continuing to focus on its core Australian gold and copper projects including:

- Red Mountain Gold Project in Queensland (100% owned) where ongoing drilling is following-up the high-grade near surface gold and silver intersected in the maiden drill program (ASX Release 3rd August 2020), including:
 - 13m @ 8.0 g/t Au & 3.2 g/t Ag from surface, incl. 6m @ 16.7 g/t Au & 5.3g/t Ag
 - o 5m @ 3.5 g/t Au & 54.3 g/t Ag from 64m, incl. 2m @ 8.0 g/t Au & 109.4 g/t Ag
- Split Rocks Gold Project in Western Australia (100% owned), where recent drilling returned, highgrade near surface gold mineralisation at multiple targets (ASX Release 5th August 2020), including:
 - Dulcie North: 32m @ 9.4 g/t Au, incl 9m @ 31.4 g/t Au with the highest individual 1m sample returning 199.2 g/t Au.
 - Dulcie Laterite Pit:
 - 2m @ 14.5 g/t Au, incl. 1m @ 20.8 g/t Au,
 - 18m @ 2.0 g/t Au (EOH) incl. 1m @ 23.7 g/t Au &
 - 2m @ 4.7 g/t Au incl. 1m @ 8.3 g/t Au (zone open to south for 900m, north and down dip to west).
 - Estrela Prospect: 2m @ 9.8 g/t Au (open to north & south)
 - Dulcie Far North: 5m @ 5.6 g/t Au incl. 4m @ 6.8 g/t Au
- Develin Creek Copper-Zinc Project in Queensland (100% owned) maiden drill test of the new Snook copper target located 30km south of Zenith's JORC resources planned for October 2020.
- Jackadgery Gold Project in New South Wales (option to earn initial 90%), historic trenching returned 160m @ 1.2 g/t Au. No drilling to date. Zenith planning maiden drill test (ASX Release 10th September 2020)
- Flanagans Gold & Copper Project in Queensland (100% owned) further sampling required to define a drill target.

Competent Persons Statement

The information in this report that relates to Exploration Results is based on information compiled by Mr Michael Clifford, who is a Member of the Australian Institute of Geoscientists and an employee of Zenith Minerals Limited. Mr Clifford has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Material ASX Releases Previously Released

The Company has released all material information that relates to Exploration Results, Mineral Resources and Reserves, Economic Studies and Production for the Company's Projects on a continuous basis to the ASX and in compliance with JORC 2012. The Company confirms that it is not aware of any new information that materially affects the content of this ASX release and that the material assumptions and technical parameters remain unchanged.

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

| Criteria | JORC Code explanation | Commentary |
|--------------------------|---|--|
| | 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. | Assays received for 25 reverse circulation drill holes totalling 2,074m of total 31 holes completed. |
| Sampling | Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. | 1m drill samples collected via a cyclone were split through riffle splitter. Routine sampling on 4m composites via spear sampling of the 1m riffle split samples. Selected 1m intervals were assayed as 1m samples based on visual logging of alteration and sulphide content. |
| Sampling techniques | 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. | Reverse circulation drilling was used to obtain 1 m to 4m samples from which 2 to 3 kg was pulverised to produce a 30 g charge for fire assay |
| Drilling techniques | 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.). | Reverse circulation |
| | Method of recording and assessing core and chip sample recoveries and results assessed. | Drill chips were sieved and logged by a qualified geologist on site, data recorded in field on paper logs and transferred to digital database |
| Drill sample recovery | Measures taken to maximise sample recovery and ensure representative nature of the samples. | Drilling produced generally dry samples with excellent recoveries, all 1m samples were riffle split on site and selected interval were 4m composite sampled using a spear from the 1m riffle splits to ensure a representative sample was collected for assay |
| | 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. | No indications of sample bias based on results to date |

| Logging | 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. | Drill chips were sieved and logged by a qualified geologist on site. No reporting of resources. |
|--|---|---|
| | Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography. | Drill chips logging is qualitative. Representative chip samples collected and stored in 20 compartment plastic chip trays and photographed. |
| | The total length and percentage of the relevant intersections logged. | All intervals logged and sampled |
| | If core, whether cut or sawn and whether quarter, half or all core taken. | No core |
| Sub-sampling | If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry. | Samples riffle split |
| techniques and sample preparation | For all sample types, the nature, quality and appropriateness of the sample preparation technique. | Samples were analysed at ALS Laboratories in Brisbane, the samples were crushed, pulverised and assayed by gold using fire assay and silver by ICP-AES. |
| | Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. | ~2 to 3kg of drill sample was crushed and pulverised and a sub-sample was taken in the laboratory and analysed. |
| Sub-sampling techniques and sample | Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling. | 1m resampling of selected mineralised 2 and 4m composites to be completed |
| preparation - continued | Whether sample sizes are appropriate to the grain size of the material being sampled. | Each sample was 2kg to 3kg in weight which is appropriate to test for the grain size of material. |
| | The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. | The samples were crushed and assayed for gold using fire assay, which is considered a near total technique |
| Quality of assay data and laboratory tests | 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. | No geophysical tools used this sampling program |
| | Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of | Certified reference material and blanks was included in each sample batch and appropriate levels of precision and accuracy. |
| | accuracy (i.e. lack of bias) and precision have been established. | In addition, a barren feldspar flush was run before and after each 1m resample analysis. |
| Verification of sampling and | The verification of significant intersections by either independent or alternative company personnel. | Company personnel have observed the assayed samples |
| assaying | The use of twinned holes. | No twinning |

| | Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. | Field data were all recorded in field note books and sample record books and then entered into a database |
|---|--|--|
| | Discuss any adjustment to assay data. | No adjustments were made. |
| Location of data points | 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. | Sample location is based on GPS coordinates +/-5m accuracy |
| | Specification of the grid system used. | The grid system used to compile data was MGA94 Zone 56 |
| Location of data points - continued | Quality and adequacy of topographic control. | Topography control is +/- 10m. |
| | Data spacing for reporting of Exploration Results. | Drill holes shown in Figures 2 to 4 and Table 1. |
| Data spacing and distribution | 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. | The data alone will not be used to estimate mineral resource or ore reserve |
| | Whether sample compositing has been applied. | Results are reported as length weighted average composites at a minimum cut-off grade of 0.4 g/t Au or if silver only 30g/t Ag (refer to Table 1). Over range >100g/t Ag re-assayed using a 4 acid digest ICP-AES. |
| Orientation of data in relation | Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. | Orientation of mineralisation is unsure at this stage and therefore true widths are uncertain, however drill holes were designed and orientated to intersect geological contacts, mapped veins and structures and IP geophysical chargeability anomalies normal to strike and therefore are more likely than not to represent near true widths |
| to geological structure | 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. | As above |
| Sample security | The measures taken to ensure sample security. | Samples were kept in numbered and secured bags until delivered to the laboratory |
| Audits or reviews | The results of any audits or reviews of sampling techniques and data. | Sampling techniques are consistent with industry standards |

Section 2 Reporting of Exploration Results

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

| Criteria | JORC Code explanation | Commentary |
|--|---|---|
| Mineral tenement and land tenure status | 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. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to | The Red Mountain Project is located within the 100% Zenith owned exploration permit for minerals EPM 26384. The project is located within private grazing properties. All tenements are 100% held by Zenith and are in good standing with no known impediment to future granting of a mining lease. |
| Exploration done by other parties | operate in the area. Acknowledgment and appraisal of exploration by other parties. | South Pine Mines Pty Ltd undertook regional scale reconnaissance rock chip sampling and a systematic stream sediment sampling program focused around the Rossmore silver occurrence from 1981 to 1982. Several companies held the ground in the following decades focusing on the porphyry copper / epithermal potential of the area with Archer Resources Limited the only company to have reported on ground exploration activity on the area of interest being reported herewith by Zenith. Anomalous silver and gold in soils was reported by Archer Resources Limited which has subsequently been confirmed by Zenith. |
| Geology | Deposit type, geological setting and style of mineralisation. | Based on the initial site visit and preliminary evidence the geological setting and geochemical association at Red Mountain is indicative of an epizonal intrusion related gold deposit like the Mt Rawdon gold mine. |
| Drill hole Information | 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: o easting and northing of the drill hole collar o elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar o dip and azimuth of the hole o down hole length and interception depth o hole length. 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. | Refer to Tables 1 & 2 |
| Data aggregation methods | 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. 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. | No high-grade cutting High-grade intersections are length weighted average grades with minimum cut -off grade of 1.0g/t Au and no internal dilution, whilst lower grade intersections are length weighted average grades with minimum cut-off grade of 0.4g/t Au and maximum internal dilution of 4m. |

| Data aggregation methods - continued | The assumptions used for any reporting of metal equivalent values should be clearly stated. | No metal equivalents used. |
|---|---|--|
| | These relationships are particularly important in the reporting of Exploration Results. | Refer below |
| Relationship between mineralisation widths and | If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. | The intersections except holes ZRMRC005 & 006 are down hole lengths. The orientation of mineralisation is interpreted as steep easterly dipping. |
| intercept lengths | 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'). | As above |
| Diagrams | 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. | Refer to descriptions and diagrams in body of text, cross sections provided in ASX Release 24 th August 2020. |
| Balanced reporting | 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. | Refer to descriptions and diagrams in body of text |
| Other substantive exploration data | 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. | No other meaningful or material exploration data to be reported at this stage |
| | The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). | Follow-up drill planning in progress. |
| Further work | Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. | Refer to figures in body of report. |