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Market Announcements Platform
ASX Limited
Exchange Centre
20 Bridge Street
Sydney NSW 2000

# DRILLING INTERSECTS VEINS OF ZINC-LEAD MINERALISATION AT BONAVENTURA

## Highlights

- Drilling at the Grainger Zinc Prospect (Bonaventura Project) intersected significant vein sets of zinc-lead mineralisation in fresh rock at shallow depth, best intercepts include[1]:
    - **6.0m at 1.53% zinc and 0.21% lead from 28.3m, including 1.0m at 4.50% zinc and 0.34% lead from 33.3m** (BVDD-012)
    - **7.0m at 1.65% zinc and 0.26% lead from 64.2m, including 1.0m at 4.14% zinc and 0.66% lead from 70.2m** (BVDD-012)
- Further drilling at the Dewrang Prospect (Bonaventura Project) intersected significant base-metals mineralisation coincident to a previously defined 1.5km geophysical IP anomaly[2]

**Auroch Minerals Limited** (**Auroch** or the **Company**) is pleased to announce the Company has successfully completed its maiden drilling programme at its 100%-owned Bonaventura Project in South Australia, intercepting significant base-metal mineralisation at its Dewrang and Grainger Prospects.

*"To have intersected and confirmed base-metals mineralisation at our two highest-priority targets at Bonaventura is a great result for the Company. Drilling at Dewrang demonstrated an extremely good correlation between mineralised intervals of base-metals and the 1.5km chargeability anomaly defined by our June IP survey, suggesting we are dealing with a large mineralised system. At Grainger the drilling intersected several sets of lead and zinc-bearing veins at shallow depths near historic artisanal workings; the mineralisation is clearly structurally-controlled and remains open at depth. The Company will continue to focus its exploration activities, leveraging all information acquired from the maiden drilling to vector in on possible higher-grade zones."*- Chief Executive Officer, Aidan Platel.

**Grainger Prospect**

A single drill-hole (BVDD012) was completed at the Grainger Prospect, targeting the down-dip extensions of an historic artisanal working, one of many in the area. The Company previously sampled material from the old workings which resulted in several high-grade samples up to 28% zinc[3]. The drill-hole intersected at least two sets of thin, vuggy veins comprising sphalerite (zinc sulphide), galena (lead sulphide), pyrite and calcite (see Figure 4). There was also disseminated sphalerite, pyrite and minor

[1] Intersections widths are down-hole intervals – as yet there is not enough information to confidently speak in terms of true width

[2] ASX Announcement – DRILLING CONFIRMS BASE-METALS MINERALISATION AT BONAVENTURA
https://www.investi.com.au/api/announcements/aou/c162c901-e59.pdf

[3] ASX Announcement – HIGH-GRADE ZINC AND GOLD RESULTS FROM THE BONAVENTURA PROJECT
https://www.investi.com.au/api/announcements/aou/bef0ae4e-cbb.pdf

chalcopyrite (copper sulphide) in the altered host rock surrounding the veins. Similar mineralisation continued at the end of the drill-hole, thus it remains unknown how thick the mineralised package is or the number of vein sets there are.

The nature of the base-metal mineralisation confirms the Company's structurally-controlled model, which relates to the proximity of all historic workings to the regional-scale Cygnet-Snelling Fault. The Company will undertake a structural study to better understand the deformational history of the prospect area and structural control over mineralisation, allowing for the potential definition of target areas of possibly thicker mineralisation and/or higher grades.

**Dewrang Prospect**

Two drill-holes were completed at the Dewrang Prospect targeting a significant Induced Polarisation (IP) chargeability anomaly defined by the Company's IP survey completed in June this year[4]. One drill-hole was completed on each of the two IP section lines, 400m apart along strike. In both cases, the mineralised intervals in the drill-holes correlated extremely well with the high chargeability, indicative that the IP anomaly reflects base-metals mineralisation. The IP anomaly is at least 1.5km long, suggesting a significant mineralised base-metals system with the mineralisation remaining open in all directions. Table 1 summarises the best mineralised intercepts from the Bonaventura drilling programme (a full table of results is included in Appendix B).

**Table 1 – Summary of best mineralised intercepts from the Bonaventura Project**

| Hole ID | Depth From | Significant Intercept | Prospect |
|---|---|---|---|
| BVDD012 | 28.3m | **6.0m @ 1.53% Zn & 0.21% Pb**<br>**Incl. 1.0m @ 4.50% Zn & 0.34% Pb** | GRAINGER |
| | 64.2m | **7.0m @ 1.65% Zn & 0.26% Pb**<br>**Incl. 1.0m @ 4.14% Zn & 0.66% Pb** | |
| | 77.2m | 7.4m @ 0.50% Zn & 0.86% Pb | |
| DWDD001[5] | 180.1m | **8.9m @ 2.12% Zn & 0.51% Pb**<br>**Incl. 1.0m @ 4.53% Zn & 0.97% Pb** | DEWRANG |
| DWDD002 | 194.0m | 4.0m @ 0.76% Zn & 0.22% Pb | |
| | 309.7m | 0.7m @ 1.77% Zn & 0.34% Pb | |

**min 0.5m width, 0.5% Zn bottom cut, max 2m internal dilution*

Two drill-holes were also completed at the Kohinoor Prospect near the historic artisanal high-grade gold workings, targeting the down-dip extensions of the mineralised veins; however, despite intersecting quartz vein sets at the target depths neither drill-hole returned any significant gold intercepts.

**Bonaventura Exploration Programme – Next Steps**

The Company is planning a structural geology study of the Grainger Prospect in order to better understand the deformational history of the target area and the structural control over mineralisation in order to potentially define target areas of thicker mineralisation and/or higher grades.

Samples of half-core and grab samples from the historic high-grade zinc workings will also be tested for geophysical properties in order to determine which geophysical survey method might be used to best define potential zones of base-metal mineralisation and thus locate possible drill targets for the next phase of drilling at the Grainger Prospect.

[4] ASX Announcement – IP SURVEY IDENTIFIES NEW HIGH-PRIORITY DRILL TARGET AT BONAVENTURA PROJECT
https://www.investi.com.au/api/announcements/aou/28f40e64-ea9.pdf
[5] ASX Announcement – DRILLING CONFIRMS BASE-METALS MINERALISATION AT BONAVENTURA
https://www.investi.com.au/api/announcements/aou/c162c901-e59.pdf

The Dewrang Prospect remains a priority target area for the Company since the drilling has demonstrated that the 1.5km long IP chargeability anomaly appears to correlate with base-metals mineralisation. Additionally, historic surface soil-sampling highlighted the area as highly-anomalous in both zinc and lead, and the high-resolution aeromagnetic data confirmed that the area is situated at the convergence of two major faults, one of which is the regional-scale Cygnet-Snelling Fault that was the focus of historic artisanal mining in the region. The geology team will continue to use pXRF, surface mapping and surface-sampling techniques to build the geological database, in order to develop these targets and define new target areas within the large tenement package, with the intent of defining targets for the next phase of drilling at the Bonaventura Project in the first half of 2019.

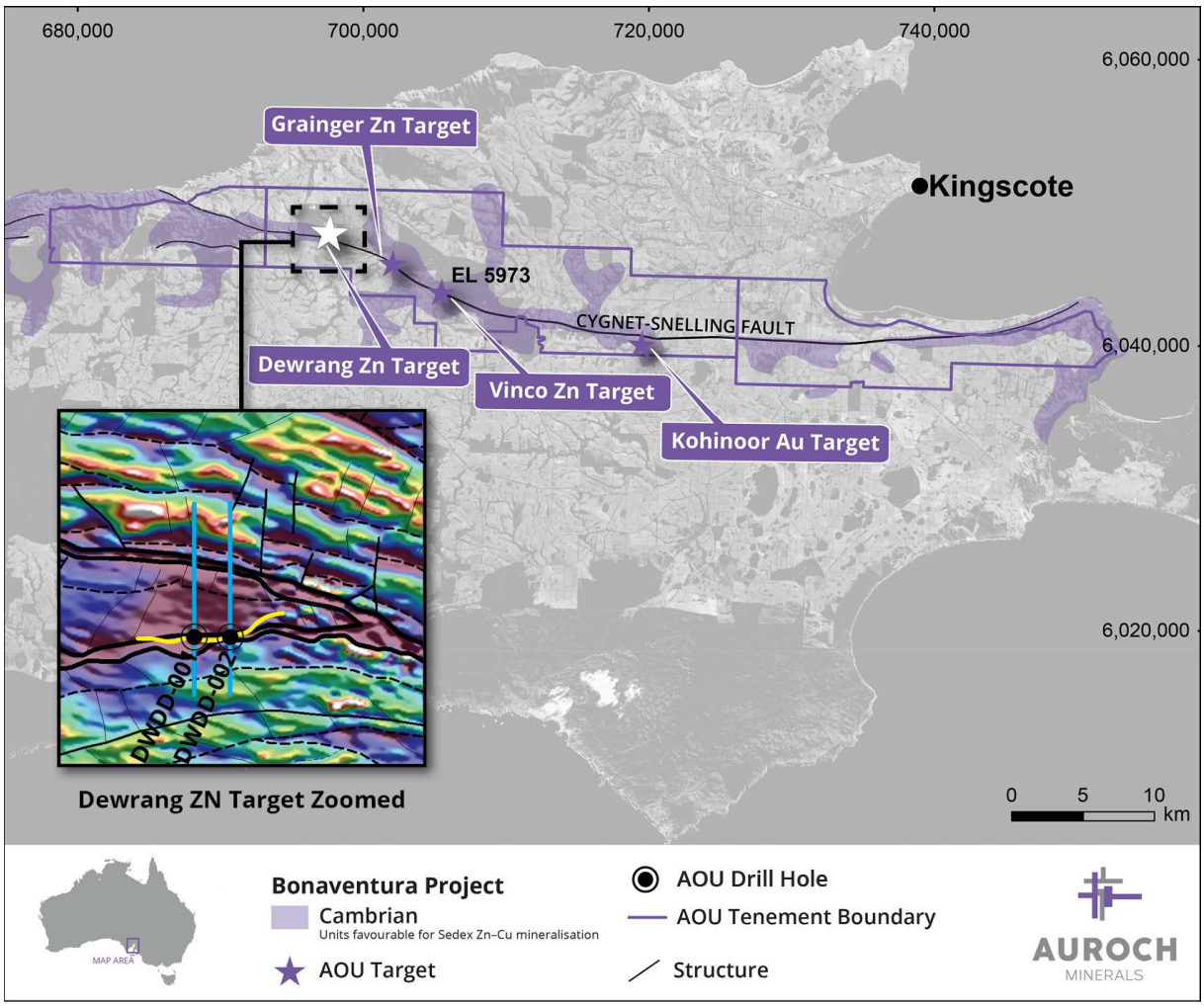


**Figure 1 – The Bonaventura Project showing high-priority target areas over favourable Cambrian geology and the regional Cygnet-Snelling Fault. INSET: The Dewrang Target over aeromagnetics (RTP) showing the convergence of two major faults. The historic IP line (yellow) shows a chargeability anomaly over 1.5km of strike, which was tested by drilling along the two lines of the more recent IP survey (light blue).**

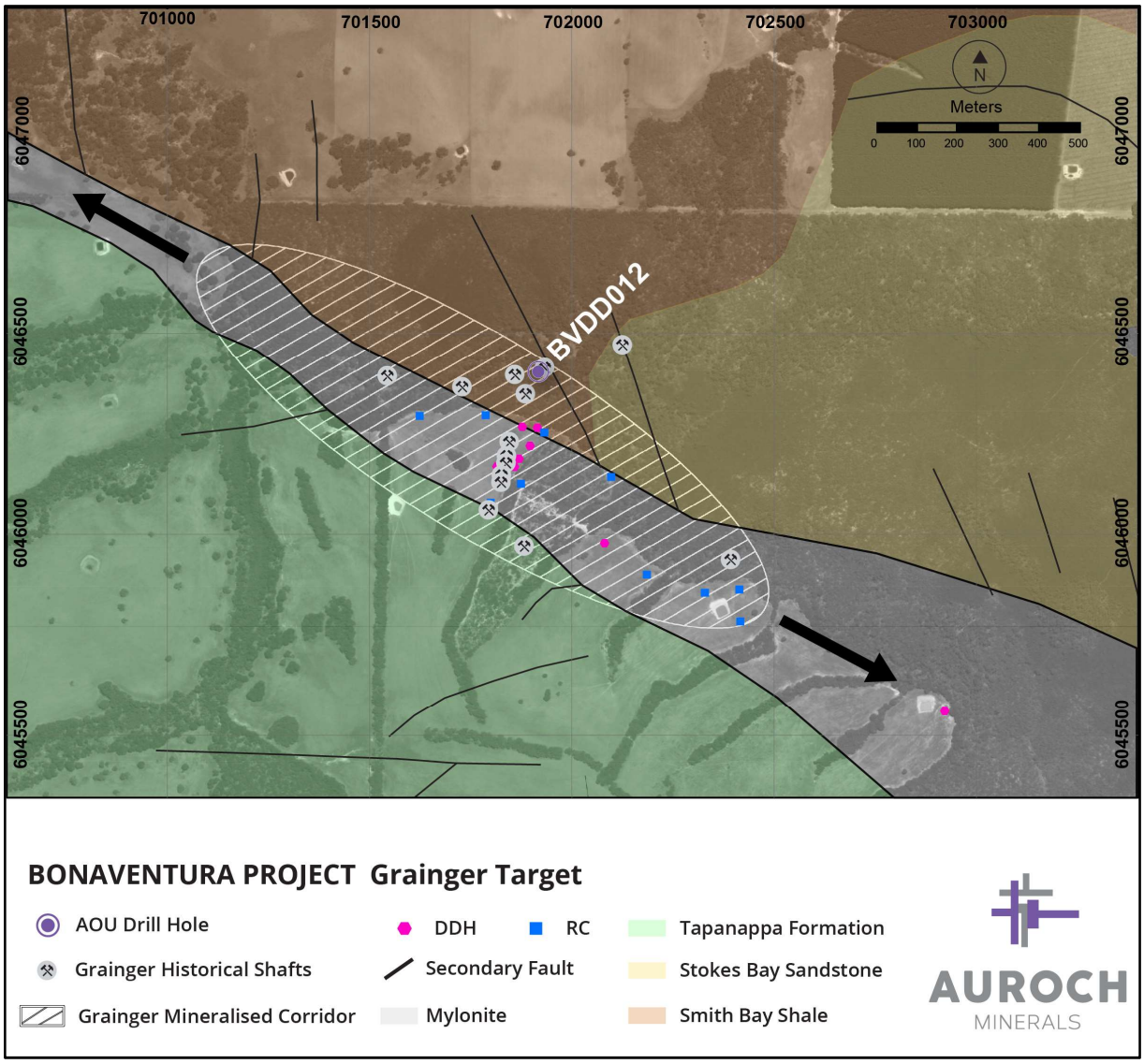


**Figure 2 – Plan map of the Grainger Prospect showing drill-hole BVDD012 in relation to historic drilling and artisanal workings.**

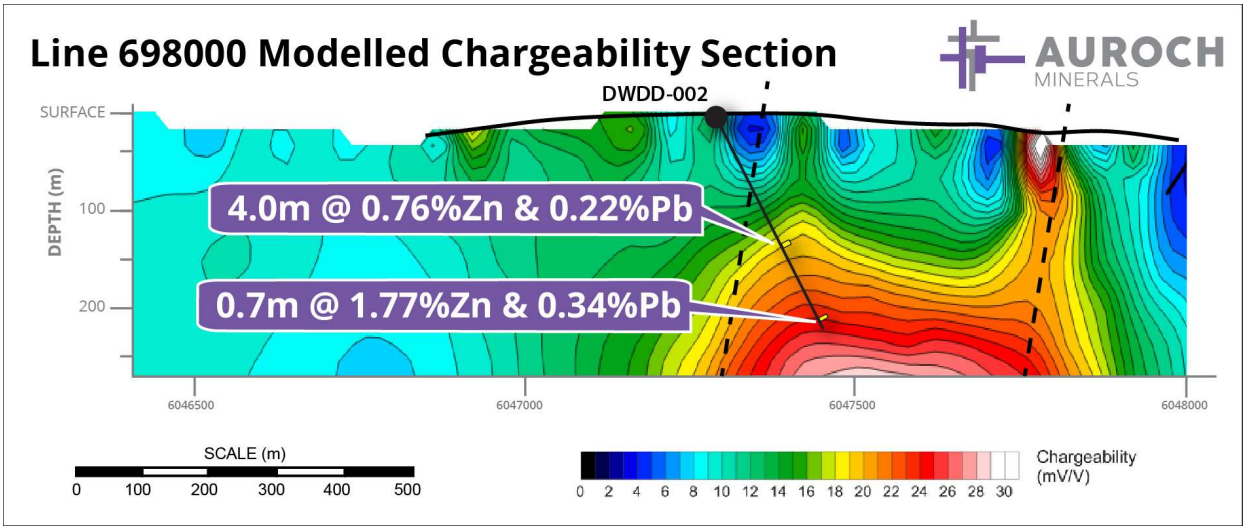


**Figure 3 – Cross-section 698000mE showing good correlation between the mineralised interval in drill-hole DWDD-002 and the high chargeability anomaly (red colours), bound by interpreted major reverse faults (dashed lines).**

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**Figure 4 – Mineralised veins of pale-brown sphalerite (zinc sulphide), dark grey galena (lead sulphide), pyrite and calcite in drill-hole BVDD012 at the Grainger Prospect.**

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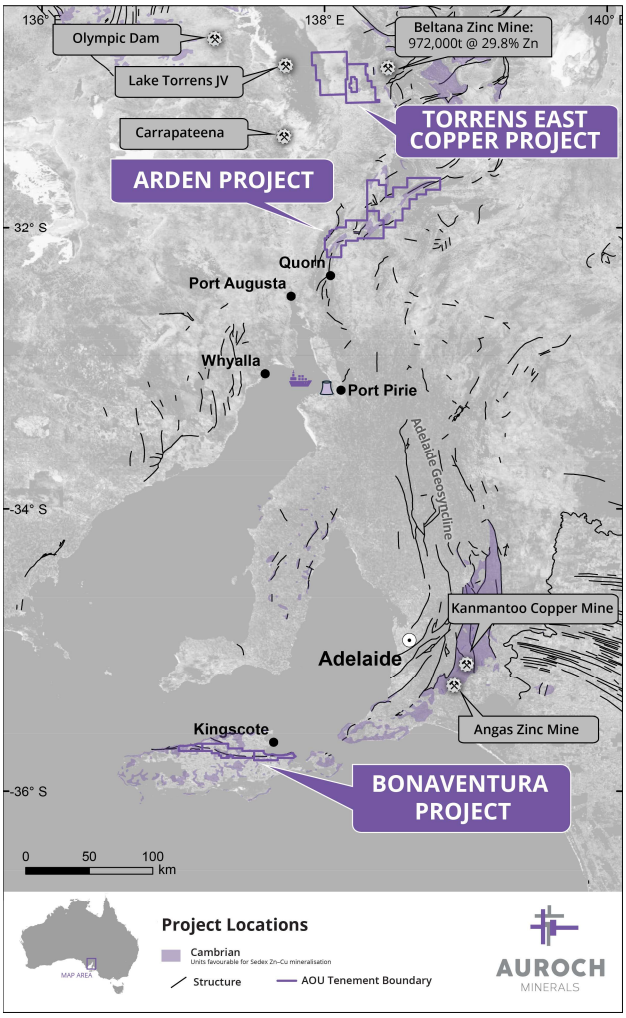
# ABOUT AUROCH MINERALS

Auroch Minerals Limited is an Australian gold and base-metals exploration company listed on the Australian Securities Exchange (ASX:AOU). The Company is focused on its three South Australian Projects: Arden and Bonaventura in the Adelaide Geosyncline and the Torrens East Copper Project, located on the highly-prospective Stuart Shelf.




## Arden

Located some 335km north of Adelaide, the Arden Project boasts a large relatively-unexplored exploration area of 1,664km$^2$ and is highly-prospective for sedimentary-exhalative (SEDEX) mineralisation. Within the Arden Project up to three horizons of SEDEX zinc mineralisation were identified from the recent drilling programme at the Ragless Range Prospect extending over 3km of strike and open in every direction.

## Bonaventura

The Bonaventura Project sits in the northern part of Kangaroo Island, with highly prospective geology along 30km of strike on the regional-scale Cygnet-Snelling Fault. Recent diamond drilling at the Dewrang Prospect intercepted zinc-lead mineralisation which correlated with a previously untested 1.5km geophysical IP anomaly.

## Torrens East Copper Project

1,622km$^2$ of ground considered highly-prospective for Iron Oxide Copper–Gold (IOCG) mineralisation in the Lake Torrens region of South Australia. The large exploration licence applications (ELAs) are situated adjacent to the Torrens JV (70% Aeris Resources Ltd; 30% Argonaut Resources NL) approximately 50km from BHP's recently-announced drilling in the Olympic Dam copper-gold province, host to the world-class Olympic Dam (BHP Group Ltd) and Carrapateena (Oz Minerals Ltd) IOCG deposits.

**Competent Persons Statement**

*The information in this report that relates to Exploration Results is based on information compiled by Mr Peter Sheehan and represents an accurate representation of the available data. Mr Sheehan (Member of the Australian Institute of Mining and Metallurgy) is the Company's Chief Geological Officer and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Sheehan consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

**Forward-Looking Statements**

*This document may include forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Auroch Minerals Limited's planned exploration program and other statements that are not historical facts. When used in this document, the words such as "could," "plan," "estimate," "expect," "intend," "may", "potential", "should," and similar expressions are forward-looking statements. Although Auroch Minerals Limited believes that its expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that actual results will be consistent with these forward-looking statements.*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# APPENDIX A –TABLE OF DRILL-HOLES

| HOLE_ID | EASTING | NORTHING | DEPTH | DIP | AZIMUTH |
|---|---|---|---|---|---|
| DWDD001 | 697,603 | 6,047,220 | 289.3 | -60 | 350 |
| DWDD002 | 698,000 | 6,047,250 | 318.9 | -60 | 350 |
| KODD002 | 718,596 | 6,040,606 | 162.4 | -60 | 105 |
| KODD003 | 718,644 | 6,040,750 | 135.8 | -60 | 105 |
| BVDD012 | 701,920 | 6,046,400 | 81.4 | -55 | 033 |

**Projection: MGA94_Zone 53*

# APPENDIX B – FULL TABLE OF RESULTS

| Hole_ID | From | To | Interval | Sample_ID | Pb (%) | Zn (%) | Cu (ppm) | Ag (ppm) | Au (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| BVDD012 | 27.3 | 28.3 | 1.0 | BV200255 | 0.00 | 0.01 | 8 | -0.5 | -0.01 |
| BVDD012 | 28.3 | 29.3 | 1.0 | BV200256 | 0.00 | 1.82 | 26 | 0.7 | -0.01 |
| BVDD012 | 29.3 | 30.3 | 1.0 | BV200257 | 0.00 | 0.03 | 15 | -0.5 | -0.01 |
| BVDD012 | 30.3 | 31.3 | 1.0 | BV200258 | 0.01 | 1.39 | 29 | 0.6 | -0.01 |
| BVDD012 | 31.3 | 32.3 | 1.0 | BV200259 | 0.61 | 0.06 | 18 | 1 | -0.01 |
| BVDD012 | 32.3 | 33.3 | 1.0 | BV200261 | 0.31 | 1.38 | 21 | 0.6 | -0.01 |
| BVDD012 | 33.3 | 34.3 | 1.0 | BV200262 | 0.34 | 4.50 | 388 | 1.3 | -0.01 |
| BVDD012 | 34.3 | 35.3 | 1.0 | BV200263 | 0.06 | 0.26 | 134 | 0.5 | -0.01 |
| BVDD012 | 35.3 | 36.3 | 1.0 | BV200264 | 0.46 | 0.11 | 33 | 0.6 | -0.01 |
| BVDD012 | 36.3 | 37.3 | 1.0 | BV200265 | 0.06 | 0.07 | 14 | -0.5 | -0.01 |
| BVDD012 | 37.3 | 38.3 | 1.0 | BV200266 | 0.08 | 0.11 | 125 | -0.5 | -0.01 |
| BVDD012 | 38.3 | 39.3 | 1.0 | BV200267 | 0.06 | 0.07 | 45 | -0.5 | -0.01 |
| BVDD012 | 39.3 | 40.3 | 1.0 | BV200268 | 0.05 | 0.03 | 123 | -0.5 | -0.01 |
| BVDD012 | 40.3 | 41.3 | 1.0 | BV200269 | 0.24 | 0.05 | 47 | 0.6 | -0.01 |
| BVDD012 | 41.3 | 42.3 | 1.0 | BV200270 | 0.03 | 0.02 | 8 | -0.5 | -0.01 |
| BVDD012 | 42.3 | 43.3 | 1.0 | BV200271 | 0.04 | 0.02 | 18 | -0.5 | -0.01 |
| BVDD012 | 43.3 | 44.3 | 1.0 | BV200272 | 1.38 | 0.04 | 673 | 2.4 | 0.01 |
| BVDD012 | 44.3 | 45.3 | 1.0 | BV200273 | 0.29 | 0.07 | 37 | -0.5 | -0.01 |
| BVDD012 | 45.3 | 46.3 | 1.0 | BV200274 | 0.16 | 0.25 | 92 | -0.5 | -0.01 |
| BVDD012 | 46.3 | 47.3 | 1.0 | BV200275 | 0.01 | 0.01 | 11 | -0.5 | -0.01 |
| BVDD012 | 47.3 | 48.3 | 1.0 | BV200276 | 0.01 | 0.01 | 8 | -0.5 | -0.01 |
| BVDD012 | 48.3 | 49.3 | 1.0 | BV200277 | 0.01 | 0.02 | 7 | -0.5 | -0.01 |
| BVDD012 | 53.8 | 54.8 | 1.0 | BV200142 | 0.00 | 0.01 | 29 | 1.3 | -0.01 |
| BVDD012 | 54.8 | 56.0 | 1.2 | BV200143 | 0.00 | 0.01 | 3 | -0.5 | -0.01 |
| BVDD012 | 56.0 | 57.0 | 1.0 | BV200144 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| BVDD012 | 57.0 | 58.0 | 1.0 | BV200145 | 0.00 | 0.00 | 2 | -0.5 | -0.01 |
| BVDD012 | 58.0 | 59.0 | 1.0 | BV200146 | 0.03 | 0.00 | 25 | -0.5 | -0.01 |
| BVDD012 | 59.0 | 60.0 | 1.0 | BV200147 | 0.02 | 0.00 | 14 | -0.5 | 0.01 |
| BVDD012 | 60.0 | 61.0 | 1.0 | BV200148 | 0.02 | 0.00 | 6 | -0.5 | -0.01 |
| BVDD012 | 61.0 | 62.0 | 1.0 | BV200149 | 0.00 | 0.00 | 5 | -0.5 | -0.01 |
| BVDD012 | 62.0 | 62.5 | 0.5 | BV200151 | 0.01 | 0.00 | 6 | -0.5 | -0.01 |
| BVDD012 | 62.5 | 63.2 | 0.7 | BV200152 | 0.03 | 0.08 | 18 | -0.5 | -0.01 |
| BVDD012 | 63.2 | 64.2 | 1.0 | BV200153 | 0.55 | 0.03 | 7 | -0.5 | -0.01 |
| BVDD012 | 64.2 | 65.2 | 1.0 | BV200154 | 0.30 | 0.71 | 17 | -0.5 | -0.01 |
| BVDD012 | 65.2 | 66.2 | 1.0 | BV200155 | 0.08 | 3.08 | 1475 | 0.9 | 0.02 |
| BVDD012 | 66.2 | 67.2 | 1.0 | BV200156 | 0.03 | 2.72 | 154 | 0.7 | -0.01 |
| BVDD012 | 67.2 | 68.2 | 1.0 | BV200157 | 0.08 | 0.17 | 85 | -0.5 | -0.01 |
| BVDD012 | 68.2 | 69.2 | 1.0 | BV200158 | 0.35 | 0.07 | 12 | 0.5 | -0.01 |
| BVDD012 | 69.2 | 70.2 | 1.0 | BV200159 | 0.30 | 0.64 | 26 | -0.5 | -0.01 |
| BVDD012 | 70.2 | 71.2 | 1.0 | BV200161 | 0.66 | 4.14 | 37 | 0.6 | -0.01 |
| BVDD012 | 71.2 | 72.2 | 1.0 | BV200162 | 0.01 | 0.03 | 11 | -0.5 | -0.01 |
| BVDD012 | 72.2 | 73.2 | 1.0 | BV200163 | 0.01 | 0.49 | 24 | -0.5 | -0.01 |

| Hole_ID | From | To | Interval | Sample_ID | Pb (%) | Zn (%) | Cu (ppm) | Ag (ppm) | Au (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| BVDD012 | 73.2 | 74.2 | 1.0 | BV200164 | 0.00 | 0.11 | 47 | -0.5 | -0.01 |
| BVDD012 | 74.2 | 75.2 | 1.0 | BV200165 | 0.01 | 0.15 | 66 | -0.5 | -0.01 |
| BVDD012 | 75.2 | 76.2 | 1.0 | BV200166 | 0.03 | 0.19 | 14 | -0.5 | -0.01 |
| BVDD012 | 76.2 | 77.2 | 1.0 | BV200167 | 0.33 | 0.09 | 11 | -0.5 | -0.01 |
| BVDD012 | 77.2 | 78.2 | 1.0 | BV200168 | 1.11 | 0.12 | 14 | 0.7 | -0.01 |
| BVDD012 | 78.2 | 79.2 | 1.0 | BV200169 | 1.22 | 0.20 | 10 | 0.8 | -0.01 |
| BVDD012 | 79.2 | 80.2 | 1.0 | BV200170 | 1.62 | 0.40 | 32 | 1.1 | -0.01 |
| BVDD012 | 80.2 | 81.2 | 1.0 | BV200171 | 0.10 | 0.06 | 21 | -0.5 | -0.01 |
| BVDD012 | 81.2 | 82.2 | 1.0 | BV200172 | 0.14 | 0.01 | 51 | -0.5 | -0.01 |
| BVDD012 | 82.2 | 83.2 | 1.0 | BV200173 | 0.93 | 2.04 | 37 | 3.3 | -0.01 |
| BVDD012 | 83.2 | 84.2 | 1.0 | BV200174 | 0.97 | 0.78 | 42 | 1.1 | -0.01 |
| BVDD012 | 84.2 | 84.6 | 0.4 | BV200175 | 0.69 | 0.14 | 17 | 0.5 | -0.01 |
| DWDD002 | 188.0 | 188.5 | 0.5 | BV200086 | 0.02 | 0.03 | 36 | -0.5 | -0.01 |
| DWDD002 | 188.5 | 189.0 | 0.5 | BV200087 | 0.01 | 0.04 | 45 | -0.5 | -0.01 |
| DWDD002 | 189.0 | 189.5 | 0.5 | BV200088 | 0.04 | 0.19 | 24 | 0.5 | -0.01 |
| DWDD002 | 189.5 | 190.0 | 0.5 | BV200089 | 0.06 | 0.27 | 31 | -0.5 | -0.01 |
| DWDD002 | 190.0 | 190.5 | 0.5 | BV200090 | 0.10 | 0.36 | 22 | 0.6 | -0.01 |
| DWDD002 | 190.5 | 191.0 | 0.5 | BV200091 | 0.11 | 0.34 | 15 | 0.6 | -0.01 |
| DWDD002 | 191.0 | 191.5 | 0.5 | BV200092 | 0.05 | 0.18 | 16 | -0.5 | -0.01 |
| DWDD002 | 191.5 | 192.0 | 0.5 | BV200093 | 0.01 | 0.09 | 21 | -0.5 | -0.01 |
| DWDD002 | 192.0 | 192.5 | 0.5 | BV200094 | 0.00 | 0.03 | 35 | -0.5 | -0.01 |
| DWDD002 | 192.5 | 193.0 | 0.5 | BV200095 | 0.00 | 0.03 | 48 | 0.5 | -0.01 |
| DWDD002 | 193.0 | 193.5 | 0.5 | BV200096 | 0.03 | 0.11 | 58 | 0.6 | -0.01 |
| DWDD002 | 193.5 | 194.0 | 0.5 | BV200097 | 0.04 | 0.13 | 64 | 0.7 | 0.01 |
| DWDD002 | 194.0 | 194.5 | 0.5 | BV200098 | 0.14 | 0.57 | 74 | 1.8 | -0.01 |
| DWDD002 | 194.5 | 195.0 | 0.5 | BV200099 | 0.18 | 0.70 | 75 | 2.1 | 0.01 |
| DWDD002 | 195.0 | 195.5 | 0.5 | BV200101 | 0.34 | 0.87 | 89 | 2.4 | -0.01 |
| DWDD002 | 195.5 | 196.0 | 0.5 | BV200102 |  | 1.16 | 69 | 1.9 | -0.01 |
| DWDD002 | 196.0 | 196.5 | 0.5 | BV200103 |  |  | 66 | 1.7 | -0.01 |
| DWDD002 | 196.5 | 197.0 | 0.5 | BV200104 |  | 1.51 | 99 | 2.8 | -0.01 |
| DWDD002 | 197.0 | 197.5 | 0.5 | BV200105 | 0.12 | 0.48 | 73 | 2.4 | 0.01 |
| DWDD002 | 197.5 | 198.0 | 0.5 | BV200106 | 0.11 | 0.45 | 58 | 1.9 | 0.01 |
| DWDD002 | 198.0 | 198.5 | 0.5 | BV200107 | 0.01 | 0.07 | 57 | 1.4 | 0.02 |
| DWDD002 | 198.5 | 199.0 | 0.5 | BV200108 | 0.10 | 0.29 | 67 | 1.8 | 0.02 |
| DWDD002 | 199.0 | 199.5 | 0.5 | BV200109 | 0.01 | 0.02 | 48 | 1 | -0.01 |
| DWDD002 | 199.5 | 200.0 | 0.5 | BV200110 | 0.02 | 0.07 | 49 | 1.3 | -0.01 |
| DWDD002 | 200.0 | 200.5 | 0.5 | BV200111 | 0.00 | 0.02 | 49 | 1.6 | -0.01 |
| DWDD002 | 200.5 | 201.0 | 0.5 | BV200112 | 0.01 | 0.02 | 56 | 1.2 | -0.01 |
| DWDD002 | 201.0 | 201.5 | 0.5 | BV200113 | 0.00 | 0.02 | 56 | 0.8 | -0.01 |
| DWDD002 | 201.5 | 202.0 | 0.5 | BV200114 | 0.03 | 0.10 | 42 | 1 | -0.01 |
| DWDD002 | 202.0 | 202.5 | 0.5 | BV200115 | 0.07 | 0.41 | 44 | 1.3 | -0.01 |
| DWDD002 | 202.5 | 203.0 | 0.5 | BV200116 | 0.02 | 0.05 | 49 | 2.2 | -0.01 |
| DWDD002 | 203.0 | 203.5 | 0.5 | BV200117 | 0.04 | 0.17 | 47 | 1.5 | -0.01 |
| DWDD002 | 203.5 | 204.0 | 0.5 | BV200118 | 0.12 | 0.38 | 31 | 1 | -0.01 |

| Hole_ID | From | To | Interval | Sample_ID | Pb (%) | Zn (%) | Cu (ppm) | Ag (ppm) | Au (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| DWDD002 | 204.0 | 204.5 | 0.5 | BV200119 | 0.01 | 0.05 | 26 | -0.5 | -0.01 |
| DWDD002 | 204.5 | 205.0 | 0.5 | BV200121 | 0.01 | 0.04 | 43 | 0.6 | -0.01 |
| DWDD002 | 205.0 | 205.5 | 0.5 | BV200122 | 0.07 | 0.29 | 42 | 1 | -0.01 |
| DWDD002 | 205.5 | 206.0 | 0.5 | BV200123 | 0.04 | 0.21 | 12 | -0.5 | -0.01 |
| DWDD002 | 206.0 | 206.5 | 0.5 | BV200124 | 0.01 | 0.05 | 22 | -0.5 | -0.01 |
| DWDD002 | 206.5 | 207.0 | 0.5 | BV200125 | 0.03 | 0.11 | 23 | -0.5 | -0.01 |
| DWDD002 | 207.0 | 207.5 | 0.5 | BV200126 | 0.01 | 0.04 | 19 | -0.5 | -0.01 |
| DWDD002 | 207.5 | 208.0 | 0.5 | BV200127 | 0.12 | 0.45 | 24 | 1.1 | -0.01 |
| DWDD002 | 208.0 | 208.5 | 0.5 | BV200128 | 0.03 | 0.09 | 20 | -0.5 | -0.01 |
| DWDD002 | 208.5 | 209.0 | 0.5 | BV200129 | 0.02 | 0.09 | 43 | -0.5 | -0.01 |
| DWDD002 | 209.0 | 209.5 | 0.5 | BV200130 | 0.03 | 0.10 | 15 | -0.5 | 0.01 |
| DWDD002 | 209.5 | 210.0 | 0.5 | BV200131 | 0.05 | 0.17 | 15 | 0.5 | -0.01 |
| DWDD002 | 210.0 | 210.5 | 0.5 | BV200132 | 0.02 | 0.19 | 25 | -0.5 | -0.01 |
| DWDD002 | 210.5 | 211.0 | 0.5 | BV200133 | 0.03 | 0.10 | 43 | 0.5 | -0.01 |
| DWDD002 | 309.0 | 309.7 | 0.7 | BV200134 | 0.06 | 0.23 | 98 | -0.5 | -0.01 |
| DWDD002 | 309.7 | 310.4 | 0.7 | BV200135 | 0.34 | 1.77 | 87 | 1.5 | 0.01 |
| DWDD002 | 310.4 | 311.0 | 0.6 | BV200136 | 0.04 | 0.11 | 343 | -0.5 | -0.01 |
| DWDD002 | 311.0 | 312.0 | 1.0 | BV200137 | 0.00 | 0.01 | 12 | -0.5 | -0.01 |
| DWDD002 | 312.0 | 312.5 | 0.5 | BV200138 | 0.00 | 0.01 | 9 | -0.5 | -0.01 |
| DWDD002 | 312.5 | 313.0 | 0.5 | BV200139 | 0.09 | 0.24 | 163 | 0.5 | 0.01 |
| DWDD002 | 313.0 | 313.5 | 0.5 | BV200141 | 0.01 | 0.02 | 7 | -0.5 | -0.01 |
| KODD002 | 35.4 | 36.0 | 0.6 | BV200176 | 0.00 | 0.00 | 7 | -0.5 | -0.01 |
| KODD002 | 36.0 | 37.0 | 1.0 | BV200177 | 0.00 | 0.00 | 9 | -0.5 | -0.01 |
| KODD002 | 37.0 | 38.0 | 1.0 | BV200178 | 0.00 | 0.00 | 8 | -0.5 | -0.01 |
| KODD002 | 38.0 | 38.5 | 0.5 | BV200179 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD002 | 38.5 | 39.5 | 1.1 | BV200181 | 0.00 | 0.00 | 6 | -0.5 | 0.05 |
| KODD002 | 39.5 | 40.2 | 0.7 | BV200182 | 0.00 | 0.00 | 7 | -0.5 | 0.01 |
| KODD002 | 40.2 | 41.0 | 0.8 | BV200183 | 0.00 | 0.00 | 7 | -0.5 | 0.01 |
| KODD002 | 41.0 | 41.9 | 0.9 | BV200184 | 0.00 | 0.00 | 16 | -0.5 | -0.01 |
| KODD002 | 41.9 | 42.9 | 1.0 | BV200185 | 0.00 | 0.00 | 18 | -0.5 | -0.01 |
| KODD002 | 42.9 | 43.7 | 0.8 | BV200186 | 0.00 | 0.00 | 11 | -0.5 | -0.01 |
| KODD002 | 43.7 | 44.0 | 0.3 | BV200187 | 0.00 | 0.01 | 7 | -0.5 | -0.01 |
| KODD002 | 44.0 | 45.0 | 1.0 | BV200188 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD002 | 45.0 | 46.0 | 1.0 | BV200189 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD002 | 46.0 | 47.0 | 1.0 | BV200190 | 0.00 | 0.00 | 5 | -0.5 | -0.01 |
| KODD002 | 47.0 | 48.0 | 1.0 | BV200191 | 0.00 | 0.01 | 6 | -0.5 | -0.01 |
| KODD002 | 48.0 | 49.0 | 1.0 | BV200192 | 0.00 | 0.01 | 10 | -0.5 | -0.01 |
| KODD002 | 49.0 | 50.0 | 1.0 | BV200193 | 0.00 | 0.01 | 7 | -0.5 | -0.01 |
| KODD002 | 50.0 | 51.0 | 1.0 | BV200194 | 0.00 | 0.00 | 5 | -0.5 | -0.01 |
| KODD002 | 51.0 | 52.0 | 1.0 | BV200195 | 0.00 | 0.01 | 5 | -0.5 | -0.01 |
| KODD002 | 52.0 | 53.0 | 1.0 | BV200196 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD002 | 53.0 | 54.1 | 1.1 | BV200197 | 0.00 | 0.01 | 4 | -0.5 | -0.01 |
| KODD002 | 54.1 | 55.1 | 1.0 | BV200198 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD002 | 55.1 | 56.0 | 0.9 | BV200199 | 0.00 | 0.00 | 2 | -0.5 | -0.01 |

| Hole_ID | From | To | Interval | Sample_ID | Pb (%) | Zn (%) | Cu (ppm) | Ag (ppm) | Au (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| KODD002 | 56.0 | 56.7 | 0.7 | BV200201 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD002 | 56.7 | 57.7 | 1.0 | BV200202 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD002 | 115.0 | 116.0 | 1.0 | BV200203 | 0.00 | 0.00 | 2 | -0.5 | -0.01 |
| KODD002 | 116.0 | 117.0 | 1.0 | BV200204 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD002 | 117.0 | 118.0 | 1.0 | BV200205 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD002 | 118.0 | 118.7 | 0.7 | BV200206 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD002 | 118.7 | 119.4 | 0.7 | BV200207 | 0.00 | 0.00 | 5 | -0.5 | -0.01 |
| KODD002 | 119.4 | 120.0 | 0.6 | BV200208 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD002 | 120.0 | 120.9 | 0.9 | BV200209 | 0.00 | 0.00 | 7 | -0.5 | 0.11 |
| KODD002 | 120.9 | 121.5 | 0.6 | BV200210 | 0.00 | 0.00 | 5 | -0.5 | 0.02 |
| KODD002 | 121.5 | 122.4 | 0.9 | BV200211 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD002 | 122.4 | 123.2 | 0.8 | BV200212 | 0.00 | 0.00 | 11 | -0.5 | -0.01 |
| KODD002 | 123.2 | 124.2 | 1.0 | BV200213 | 0.00 | 0.01 | 3 | -0.5 | -0.01 |
| KODD002 | 143.0 | 144.0 | 1.0 | BV200214 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD002 | 144.0 | 145.0 | 1.0 | BV200215 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD002 | 145.0 | 145.4 | 0.4 | BV200216 | 0.00 | 0.00 | 7 | -0.5 | -0.01 |
| KODD002 | 145.4 | 146.4 | 0.9 | BV200217 | 0.00 | 0.00 | 5 | -0.5 | -0.01 |
| KODD003 | 7.9 | 9.0 | 1.1 | BV200218 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |
| KODD003 | 9.0 | 10.0 | 1.0 | BV200219 | 0.00 | 0.00 | 2 | -0.5 | -0.01 |
| KODD003 | 10.0 | 10.6 | 0.6 | BV200221 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 10.6 | 11.2 | 0.6 | BV200222 | 0.00 | 0.01 | 1 | -0.5 | -0.01 |
| KODD003 | 11.2 | 12.2 | 1.0 | BV200223 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 12.2 | 13.2 | 1.0 | BV200224 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 13.2 | 14.1 | 0.9 | BV200225 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 27.2 | 27.7 | 0.6 | BV200226 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 27.7 | 28.8 | 1.1 | BV200227 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 28.8 | 29.7 | 0.9 | BV200228 | 0.00 | 0.01 | -1 | -0.5 | -0.01 |
| KODD003 | 29.7 | 30.2 | 0.5 | BV200229 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 30.2 | 31.2 | 0.9 | BV200230 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 31.2 | 31.7 | 0.6 | BV200231 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 31.7 | 32.6 | 0.8 | BV200232 | 0.00 | 0.00 | -1 | -0.5 | 0.01 |
| KODD003 | 32.6 | 33.3 | 0.7 | BV200233 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 33.3 | 33.8 | 0.5 | BV200234 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 47.0 | 47.4 | 0.4 | BV200235 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD003 | 47.4 | 48.2 | 0.8 | BV200236 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 48.2 | 49.2 | 1.0 | BV200237 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 49.2 | 50.1 | 0.9 | BV200238 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 68.7 | 69.7 | 1.0 | BV200239 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 69.7 | 70.5 | 0.8 | BV200241 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 70.5 | 71.5 | 1.0 | BV200242 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 71.5 | 72.5 | 1.0 | BV200243 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 72.5 | 73.5 | 1.0 | BV200244 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 73.5 | 75.2 | 1.7 | BV200245 | 0.00 | 0.00 | -1 | -0.5 | -0.01 |
| KODD003 | 110.0 | 111.0 | 1.0 | BV200246 | 0.00 | 0.00 | 2 | -0.5 | -0.01 |

| Hole_ID | From | To | Interval | Sample_ID | Pb (%) | Zn (%) | Cu (ppm) | Ag (ppm) | Au (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| KODD003 | 111.0 | 112.0 | 1.0 | BV200247 | 0.00 | 0.00 | 1 | -0.5 | -0.01 |
| KODD003 | 112.0 | 112.5 | 0.5 | BV200248 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD003 | 112.5 | 113.1 | 0.6 | BV200249 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD003 | 113.1 | 114.1 | 1.0 | BV200251 | 0.00 | 0.00 | 6 | -0.5 | -0.01 |
| KODD003 | 114.1 | 115.0 | 0.9 | BV200252 | 0.00 | 0.00 | 17 | -0.5 | -0.01 |
| KODD003 | 115.0 | 115.5 | 0.5 | BV200253 | 0.00 | 0.00 | 3 | -0.5 | -0.01 |
| KODD003 | 115.5 | 116.9 | 1.4 | BV200254 | 0.00 | 0.00 | 4 | -0.5 | -0.01 |

# Appendix C – JORC Code, 2012 Edition - Table 1 Report

## Section 1 Sampling Techniques and Data

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

| Criteria | Commentary |
|---|---|
| ***Sampling techniques*** | • 2018 DD Program: sampling was dominantly on a 0.5m or 1m interval. Occasional samples <0.5m were employed to capture individual geologic features.<br>• 2018 Dump Sampling: Reconnaissance rock chip samples were selected by geologists looking for expressions of mineralisation & alteration.<br>• 2002 Havilah AC (PRC1-32): Sampling was a combination of: 1m, 2m, 4m and 6m samples.<br>• June 2006 Monax RC (BVRC001-011): Sampling was a combination of: 1m, 2m, and 4m samples.<br>• 2008 DD drilling: After detailed logging, the core was quarter cut and selected intervals were sent to Genalysis Laboratories for geochemical analysis by AT/ICP-MS for: Au(1ppb) Pd(1ppb) Pt(1ppb) by FA25/AAS, Cr(2) Cu(1) Ni(1) Zn(1) by AT/ICP-OES and Ag(0.1) As(1) Ce(0.01) Co(0.1) Mo(0.1) Nd(0.01) Pb(2) Sn (0.1) U (0.01) W(0.1).<br>• 2008 rock chip survey at Kohinoor: Rock chip samples were collected over a 1 m cross section of the mineralised quartz veins and include components of the altered host sandstone.<br>• 2014 September DD drilling at Vinco prospect: was not sampled. |
| ***Drilling techniques*** | • 2018 DD drilling: Drilling was dominantly HQ3 with some NQ2.<br>• 2014 September DD drilling at Vinco prospect. The drilling program comprised two (2) diamond drill holes (from surface) (VDD1401 – 450.1m, VDD1402 – 504m) for a total of 954.1m.2008 March DD drilling: A total of 1449.2m of HQ/NQ drilling was completed at the Bonaventura Prospect. All holes had shallow rotary mud pre-collars (3-6m) and were then cored HQ to 100-150m and NQ drilled below this. The drill holes were all surveyed and the core was oriented.<br>• June 2006 RC Percussion drilling program (BVRC001-011): Drill hole pre-collars were completed by either RC air core or Open Hole hammer drilling, cased with 6” PVC and cemented with Gypset. Drill holes were then drilled by RC Percussion to refusal, generally caused by high influx of groundwater into the hole. |
| ***Drill sample recovery*** | • 2018 DD drilling: RQD's were recorded for all holes.<br>• June 2006 RC Percussion drilling program (BVRC001-011): Drill hole were pre-collared, cased with 6” PVC and cemented with Gypset to maximise recoveries. Drill holes were then drilled by RC Percussion to refusal. Logs record a high influx of groundwater into the holes.<br>• 2008 March DD drilling: All holes had shallow rotary mud pre-collars (3-6m) and were then cored HQ to 100-150m and NQ drilled below this. No records |

| | |
|---|---|
| | for recovery have been located.<br>• 2014 September DD drilling at Vinco prospect: no records for recovery have been located. |
| ***Logging*** | • Geologists employed qualitative logging which includes: depth, colour, weathering, water table, lithology, alteration and mineralisation.<br>• DD drilling at Bonaventura, Kohinoor, and Vinco: Measurements of the magnetic susceptibility and specific gravity (using Archimedes principal) were taken on one sample in every tray of drill core. |
| ***Sub-sampling techniques and sample preparation*** | • Diamond core was sawn in two and one half of the core submitted for analysis. Samplers were instructed to take the same side of the core for each run.<br>• RC samples (generally 1m) were riffle split and up to 5kg submitted for analysis. Splitters were cleaned systematically to ensure quality.<br>• Sample sizes are considered appropriate to the grain size of the material being sampled and the nature of base metal mineralisation (measured in %). |
| ***Quality of assay data and laboratory tests*** | • Accredited Assay Laboratories were used for all analysis, including: Genalysis (Adelaide), ALS Laboratories (Adelaide).<br>• June 2006 RC drilling & 2008 DD drilling: Drill samples were analysed by Genalysis for: Au, Ag, As, Ce, Co, Cr, Cu, Mo, Nd, Ni, Pb, Pd, Pt, Sn, U, W, and Zn by a combination of: Fire Assay and ICP-MS and ICP-OES.<br>• 2018 DD and Dump Sampling: Rock chip samples were analysed by ALS for Au (Fire Assay) and Multi-elements (ICP-MS 61).<br>• June 2006 RC drilling & 2008 DD drilling: These drilling programs employed the use of: Standards, Blanks and Field Duplicates.<br>• Duplicate sample data was plotted for Ag, Cu, Pb and Zn. In general, the results show very good consistency, particularly the Cu and Zn results. |
| ***Verification of sampling & assaying*** | • No twin holes have been drilled on the project.<br>• Geophysical survey data has been collected from the SARIG reporting (South Australian Resource Information Gateway), the data was then quality checked and processed by Southern Geoscience Consultants.<br>• IP survey of the Grainger prospect was dipole-dipole and offset dipole-dipole survey collected by Search Exploration in 2014 with 100m receiver dipoles and 200m transmitter dipoles.<br>• IP survey at Dewrang (T2) line 47200 was completed in 2006 by Search Exploration. Dipole-dipole configuration was used and with 100m dipole spacing. Transmitter and receiver were not specified but most likely Search Explorations proprietary receiver.<br>• Gravity is a combination of data collected in 2006 and 2014. Both surveys were completed by Daishsat Geodetic. 2006 consisted of a helicopter, ground-gravity survey of 213 stations was completed by Daishsat Geodetic. The gravity stations were taken on a 1000x1000m spaced grid. 2014 survey was 391 stations of infill on approximately 250m x 250m station spacing.<br>• 2006 gravity survey used two Scintrex CG-5 digital gravity meters: SN 9383 A, SN 100 B. Two Scintrex CG-3 digital gravity meters: SN 9711410 S, SN 9408275 G, One LaCoste Romberg meter, SN G711 Gravity. Gravity repeat data shows an accuracy of greater than 0.017mGal.<br>• 2014 survey used Scintrex CG-5080440372 and 091240603. Gravity repeat data shows an accuracy of greater than 0.019mGal. |
| ***Location of data points*** | • Historic Drilling/Trenching was located by traditional surface survey. Where historic collars/trenches are still able to be located on the ground they have been picked up with handheld Garmin GPS as a check.<br>• Co-ordinates are recorded in UTM_GDA94 (Zone 53H).<br>• IP Surveys data was recorded in local grid coordinate, and has been converted back to GDA94 MGA Zone 53 with the coordinates provided with the data. GDA94 MGA Zone 53 locations were surveyed with handheld GPS.<br>• 2014 and 2006 Gravity Survey used differential GPS post processed to Geoscience Australia's online GPS processing system, AUSPOS to give accuracy to greater than 0.037m. |

| | |
|---|---|
| ***Data spacing and distribution*** | • Spacing of drill holes is appropriate for early exploration stage of the drilling.<br>• No compositing has been done on drilling. |
| ***Orientation of data in relation to geological structure*** | • 2018Historic drilling was conducted at close to 90 degrees to geological structure.<br>• At historic Bonaventura Prospect, some holes were drilled at 45º to main structure to intersect mineralisation parallel and perpendicular (ladder veins). |
| ***Sample security*** | • 2018 DD Core was logged and stored at core facility in Parndana before being freighted by local Kangaroo Island transport company to Adelaide for core cutting at commercial facility, then delivered to ALS laboratories.<br>• Samples were collected by field geologist, numbered and bagged and delivered immediately to courier for transport to laboratories in Adelaide.<br>• There is no information on chain of custody for historic data. |
| ***Audits or reviews*** | • Not completed |

# Section 2 Reporting of Exploration Results

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

| Criteria | Commentary |
|---|---|
| ***Mineral tenement and land tenure status*** | • Exploration Licence 5973 (Bonaventura Project) is held by Zinc Mining Pty Ltd. |
| ***Exploration done by other parties*** | • The Kohinoor Au Mine was discovered in 1886 by prospector E. Prime. This was followed by discoveries of Pb/Zn at the Perseverance/Grainger's workings, Cu at Bonaventura and Cu/Au/Pb at the Cygnet Mine between 1886 and 1899. The most work was completed at the Koh-i-noor Mine with several shafts and drives being excavated to a depth of approximately 60m. Sporadic work was undertaken at the various prospects in the early 1900's and the 1920's. Prospecting associated with this period located the Rainbow's End (Mt Brown) Au prospect.<br>• Past exploration in the tenement area, which dates from 1968, has been relatively limited. Commodities targeted include base metals, bauxite, kaolin, gold, diamonds and, most recently, zinc. Base metal exploration carried out between 1968 and 1982 by Elcor Australia Pty Ltd (Donovan, P.R., 1969, 1970), AOG Minerals Pty Ltd (Burnside, E., 1973; Whiting, J.W. and Cowan, D., 1974), Aquila Minerals Ltd (Liddy, J.C., 1972), Preussag Australia Pty Ltd (Hosking, A.J., 1976) and Shell Company of Australia Ltd (Reis, E., 1982) included stream sediment and soil geochemical surveys, IP and resistivity surveys and limited diamond drilling. At Grainger's Mine, Preussag outlined a large area of elevated lead-zinc concentration in soils. AOG established the presence of sub-economic lead-zinc-copper mineralisation at Dewrang prospect, where five diamond drill holes revealed the presence of sphalerite, chalcopyrite, galena and marcasite rich micro-fracture fillings, sometimes accompanied by low temperature hydrothermal alteration.<br>• Comalco Ltd (Buchhorn, 1978) explored the area for bauxite and kaolin in 1978-79, but auger drilling did not encourage further work.<br>• Gold exploration between 1987 and 1993, by Tectonic Systems Pty Ltd (Robb, D.W., 1988) and Pasminco Australia Ltd (Lees, T.C., 1993), focussed on the Cygnet mine. Tectonic Systems reported low-order gold values in RC drilling, whilst RAB drilling by Pasminco intersected anomalous copper (487 ppm Cu) and weak epigenetic gold mineralisation (up to 0.33 ppm Au) at Cygnet mine. Pasminco also reported elevated base metal values in drill holes at Dewrang prospect, but did not consider them sufficiently encouraging to warrant further work.<br>• Department of Mines and Energy South Australia (SADME) (McCallum, 1991) investigated the Grainger's Mine from 1989 to 1990. Drilling of 14 percussion holes confirmed the presence of zinc mineralisation in Cambrian bedrock |

beneath the Preussag soil anomaly. The best intersection was 16 m @ 2.69% Zn, 0.45% Pb and 1.7 g/t Au. SADME suggested that the laterite cover may be masking the surface geochemical response from this mineralisation.

- Carnegie Minerals NL (Mateev, 1998) explored for diamonds on Kangaroo Island from 1996 to 1998. Stream sediment sampling did not recover diamonds or kimberlitic indicators.
- From 2002 to 2004, Havilah Resources NL (Current EL) investigated the Grainger's Mine, following up earlier work by SADME. Havilah drilled 32 shallow aircore holes and intersected high-grade zinc mineralisation at shallow depth (less than 40 m), with assays ranging up to 26.9% Zn, accompanied by up to 9.4% Pb. The zinc-lead mineralised zone continues along strike for at least 400 m and lies within a broader halo of lower-grade zinc and lead mineralisation. Assays up to 0.5 ppm gold and 9.4 ppm silver were also recorded. Havilah showed that the pisolitic laterite layer was generally less than two metres thick, contained anomalous concentrations of zinc and lead in places, and was thus probably a valid soil sampling medium for geochemical surveys.

***Geology***

- The project area lies on the southern margin of the Gawler Craton of South Australia, covering a 33 km section of the Cygnet-Snelling Shear Zone (C-SSZ) on Kangaroo Island.
- Bedrock in the project area generally consists of deep marine and shelf sediments of Cambrian age. The tenements enclose a section of the east-west trending C-SSZ for a distance of 33 kilometres. North of this fault zone, lightly metamorphosed, shallow water, shelf sediments of the Kangaroo Island Group crop out. These mainly include greenschist facies siltstones, shales and fine grained sandstones of the basal Mt McDonnell Formation. South of the fault zone are more highly metamorphosed lower amphibolite facies metasediments of the Kanmantoo Group, chiefly the fine grained greywackes of the Tapanappa Formation. The majority of the area is covered by relatively thin (<20m thick) Tertiary laterites and Quaternary alluvial deposits making exploration difficult away from the deeply incised C-SSZ.
- The C-SSZ is a deep crustal feature, and is interpreted to coincide at depth with the southern margin of the Gawler Craton. Gold and base metal occurrences are found along much of the C-SSZ, including the historic Grainger's Mine, Bonaventura Prospect, Dewrang Prospect and the Kohinoor Goldfield.

***Drill hole Information***

| Hole_ID | Hole | Depth | East | North | RL | Dip | Azimuth |
|---|---|---|---|---|---|---|---|
| BVC001 | COST | 100 | 702344 | 6045876 | 110 | 0 | 83 |
| BVC002 | COST | 76 | 702392 | 6045819 | 114 | 0 | 174 |
| BVC003 | COST | 101 | 702094 | 6045942 | 109 | 0 | 142 |
| BVC004 | COST | 57 | 702044 | 6045982 | 102 | 0 | 52 |
| BVC005 | COST | 55 | 702044 | 6045991 | 115 | 0 | 142 |
| BVC006 | COST | 38 | 701983 | 6046246 | 110 | 0 | 52 |
| BVC007 | COST | 104 | 701957 | 6046260 | 117 | 0 | 119 |
| BVC008 | COST | 91 | 701918 | 6046269 | 119 | 0 | 42 |
| BVC009 | COST | 101 | 701780 | 6046244 | 123 | 0 | 22 |
| BVC010 | COST | 121 | 701672 | 6046298 | 122 | 0 | 77 |
| BVC011 | COST | 170 | 702328 | 6046787 | 128 | 0 | 90 |
| BVRC01 | RC | 120 | 701624 | 6046293 | 114 | -60 | 7 |
| BVRC02 | RC | 85 | 701787 | 6046295 | 124 | -60 | 7 |
| BVRC03 | RC | 169 | 701932 | 6046252 | 124 | -60 | 342 |
| BVRC04 | RC | 175 | 702185 | 6045900 | 109 | -60 | 12 |
| BVRC05 | RC | 115 | 702329 | 6045855 | 113 | -60 | 362 |
| BVRC06 | RC | 121 | 702416 | 6045784 | 119 | -60 | 7 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BVRC07 | RC | 127 | 702414 | 6045863 | 110 | -60 | 7 |
| BVRC08 | RC | 85 | 701874 | 6046125 | 122 | -60 | 7 |
| BVRC09 | RC | 103 | 702097 | 6046142 | 118 | -60 | 7 |
| BVRC10 | DDH | 232 | 701870 | 6046187 | 132 | -60 | 57 |
| BVRC11 | RC | 85 | 701799 | 6046078 | 137 | -60 | 57 |
| BVDD002 | DDH | 144 | 702081 | 6045978 | 131 | -60 | 291 |
| BVDD004 | DDH | 114 | 701915 | 6046264 | 129 | -60 | 97 |
| BVDD005 | DDH | 217 | 701878 | 6046266 | 129 | -60 | 97 |
| BVDD006 | DDH | 120 | 701897 | 6046219 | 131 | -60 | 97 |
| BVDD007 | DDH | 265 | 701847 | 6046218 | 132 | -60 | 97 |
| BVDD008 | DDH | 120 | 701859 | 6046167 | 133 | -60 | 87 |
| BVDD009 | DDH | 239 | 701815 | 6046168 | 134 | -60 | 87 |
| GRA 1 | RM | 8 | 702002 | 6046423 | 108 | -90 | 360 |
| GRA 2 | AC | 14 | 701999 | 6046397 | 109 | -90 | 360 |
| GRA 3 | AC | 9 | 701999 | 6046370 | 111 | -90 | 360 |
| GRA 4 | RM | 16 | 701985 | 6046344 | 113 | -90 | 360 |
| GRA 5 | RM | 8 | 701979 | 6046318 | 114 | -90 | 360 |
| GRA 6 | AC | 15 | 701972 | 6046293 | 115 | -90 | 360 |
| GRA 7 | AC | 35 | 701937 | 6046257 | 119 | -90 | 360 |
| GRA 8 | AC | 26 | 701901 | 6046223 | 122 | -90 | 360 |
| GRA 9 | AC | 12 | 701866 | 6046186 | 124 | -90 | 360 |
| GRA 10 | AC | 11 | 701821 | 6046160 | 126 | -90 | 360 |
| GRA 11 | AC | 14 | 701799 | 6046146 | 127 | -90 | 360 |
| GRA 12 | RM | 10 | 701791 | 6046143 | 127 | -90 | 360 |
| GRA 13 | AC | 10 | 701780 | 6046141 | 127 | -90 | 360 |
| GRA 14 | RM | 5 | 701757 | 6046126 | 128 | -90 | 360 |
| KOH 1 | RM | 14 | 718805 | 6040577 | 100 | -90 | 360 |
| KOH 2 | RM | 14 | 718785 | 6040598 | 100 | -90 | 360 |
| KOH 3 | RM | 14 | 718768 | 6040615 | 100 | -90 | 360 |
| KOH 4 | RM | 15 | 718750 | 6040633 | 100 | -90 | 360 |
| KOH 5 | RM | 16 | 718731 | 6040653 | 100 | -90 | 360 |
| KOH 6 | RM | 34 | 718715 | 6040671 | 100 | -90 | 360 |
| KOH 7 | RM | 16 | 718686 | 6040668 | 100 | -90 | 360 |
| KOH 8 | RM | 16 | 718659 | 6040665 | 100 | -90 | 360 |
| KOH 9 | RM | 16 | 718630 | 6040662 | 100 | -90 | 360 |
| KOH 10 | RM | 16 | 718602 | 6040659 | 100 | -90 | 360 |
| KOH 11 | RM | 16 | 718575 | 6040656 | 100 | -90 | 360 |
| KOH 12 | RM | 16 | 718547 | 6040653 | 100 | -90 | 360 |
| KOH 13 | RM | 16 | 718520 | 6040650 | 100 | -90 | 360 |
| KOH 14 | RM | 16 | 718493 | 6040647 | 100 | -90 | 360 |
| KOH 15 | RM | 16 | 718465 | 6040642 | 100 | -90 | 360 |
| KOH 16 | RM | 16 | 718410 | 6040630 | 100 | -90 | 360 |
| KOH 17 | RM | 16 | 718702 | 6040694 | 100 | -90 | 360 |
| KOH 18 | RM | 16 | 718688 | 6040716 | 100 | -90 | 360 |

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|---|---|---|---|---|---|---|---|---|
| KOH 19 | RM | 16 | 718667 | 6040759 | 100 | -90 | 360 |
| KOH 20 | RM | 16 | 718651 | 6040890 | 100 | -90 | 360 |
| KOH 21 | RM | 16 | 718608 | 6041102 | 100 | -90 | 360 |
| KOH 22 | RM | 28 | 718565 | 6041248 | 100 | -90 | 360 |
| KOH 23 | RM | 31 | 718502 | 6041574 | 100 | -90 | 360 |
| KOHDD001 | DDH | 140 | 718535 | 6040654 | 128 | -60 | 120 |
| PRC1 | AC | 44 | 701800 | 6046082 | 118 | -60 | 65 |
| PRC2 | AC | 22 | 701778 | 6046070 | 120 | -60 | 55 |
| PRC3 | AC | 41 | 701781 | 6046073 | 119 | -60 | 55 |
| PRC4 | AC | 48 | 701826 | 6046071 | 117 | -60 | 41 |
| PRC5 | AC | 47 | 701810 | 6046051 | 119 | -60 | 45 |
| PRC6 | AC | 46 | 701834 | 6046086 | 116 | -60 | 53 |
| PRC7 | AC | 19 | 701796 | 6046039 | 119 | -60 | 47 |
| PRC8 | AC | 38 | 701864 | 6046068 | 114 | -60 | 49 |
| PRC9 | AC | 38 | 701852 | 6046054 | 116 | -60 | 49 |
| PRC10 | AC | 40 | 701841 | 6046033 | 117 | -60 | 50 |
| PRC11 | AC | 34 | 701896 | 6046038 | 113 | -60 | 50 |
| PRC12 | AC | 30 | 701880 | 6046028 | 114 | -60 | 52 |
| PRC13 | AC | 26 | 701804 | 6046096 | 117 | -60 | 52 |
| PRC14 | AC | 34 | 701833 | 6046096 | 115 | -60 | 27 |
| PRC15 | AC | 34 | 701794 | 6046079 | 118 | -60 | 52 |
| PRC16 | AC | 48 | 701766 | 6046063 | 121 | -60 | 53 |
| PRC17 | AC | 24 | 701750 | 6046051 | 122 | -60 | 37 |
| PRC18 | AC | 59 | 701693 | 6045998 | 125 | -60 | 44 |
| PRC19 | AC | 28 | 701766 | 6046107 | 118 | -60 | 42 |
| PRC20 | AC | 49 | 701753 | 6046093 | 120 | -60 | 42 |
| PRC21 | AC | 28 | 701742 | 6046078 | 121 | -60 | 42 |
| PRC22 | AC | 37 | 701720 | 6046066 | 122 | -60 | 42 |
| PRC23 | AC | 39 | 701708 | 6046055 | 122 | -60 | 42 |
| PRC24 | AC | 35 | 701695 | 6046038 | 123 | -60 | 42 |
| PRC25 | AC | 49 | 701631 | 6045997 | 126 | -60 | 42 |
| PRC26 | AC | 59 | 701615 | 6045981 | 127 | -60 | 42 |
| PRC27 | AC | 33 | 701730 | 6046126 | 118 | -60 | 37 |
| PRC28 | AC | 24 | 701695 | 6046133 | 118 | -60 | 37 |
| PRC29 | AC | 21 | 701651 | 6046141 | 117 | -60 | 42 |
| PRC30 | AC | 29 | 701490 | 6046138 | 115 | -60 | 17 |
| PRC31 | AC | 52 | 701803 | 6046044 | 120 | -60 | 47 |
| PRC32 | AC | 49 | 701790 | 6046034 | 121 | -60 | 42 |
| PSMCO KI 1 | RM | 105 | 694929 | 6048520 | 100 | -90 | 7 |
| PSMCO KI 2 | RM | 76 | 694979 | 6047020 | 100 | -90 | 7 |
| PSMCO KI 3 | RM | 116 | 698179 | 6047870 | 100 | -90 | 7 |
| PSMCO KI 4 | RM | 116 | 698729 | 6047620 | 100 | -90 | 7 |
| PSMCO KI 5 | RM | 100 | 699729 | 6047895 | 100 | -90 | 7 |
| PSMCO KI 6 | RM | 100 | 700254 | 6047545 | 100 | -90 | 7 |

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|---|---|---|---|---|---|---|---|---|
| PSMCO KI 7 | RM | 108 | 701379 | 6046920 | 100 | -90 | 7 |
| PSMCO KI 8 | RM | 40 | 705829 | 6043295 | 100 | -90 | 7 |
| PSMCO KI 9 | RM | 64 | 712129 | 6043140 | 100 | -90 | 7 |
| PSMCO KI 22 | RM | 80 | 694934 | 6047005 | 100 | -70 | 182 |
| PSMCO KI 82 | RM | 100 | 705824 | 6043290 | 100 | -90 | 7 |
| VDD1401 | DDH | 450 | 702922 | 6045560 | 96 | -62 | 67 |
| VDD1402 | DDH | 504 | 703201 | 6045120 | 98 | -62 | 29 |

**co-ords UTM_GDA94 (Zone53H)*

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|---|---|
| ***Data aggregation methods*** | • No data has been aggregated |
| ***Relationship between mineralisation widths and intercept lengths*** | • The mineralisation at Bonaventura (Grainger) is interpreted to be moderate-flat dipping. Drill holes have been angled to intercept the mineralisation as close to perpendicular as possible. Down hole intercepts are reported. True widths are likely to be 75% of the down hole widths.<br>• The mineralisation at Dewrang is not clearly understood (stratiform v structural) to determine true widths.<br>• The mineralisation at Kohinoor is interpreted to be steep. KOHDD001 angled to intercept the mineralisation as close to perpendicular as possible. Down hole intercepts are reported. True widths are likely to be 60&-70% of the down hole widths. |
| ***Diagrams*** | • See above |
| ***Balanced reporting*** | • The author has made every attempt to include relevant results. |
| ***Other substantive exploration data*** | • All meaningful and material data relating to this release is reported. |
| ***Further work*** | • An exploration work program including: more mapping & surface sampling, plus step-out & infill drilling and assaying is planned for the coming 12 months. |