

HIGH-GRADE AND THICK COPPER INTERSECTED
120 METRES BELOW PREVIOUS ROCKFACE DRILLING

Level 5, 167 Eagle Street Brisbane QLD 4000 Australia

27 September 2022

- Significant copper-silver-gold intersection in drillhole KJCD556 at Rockface
 - 12.38m¹ @ 2.60% Cu, 23.8 g/t Ag, 0.34 g/t Au from 978.26m, including
 - 8.74m @ 3.20% Cu, 29.7 g/t Ag, 0.42 g/t Au from 978.26m, including
 - 5.75m @ 3.86% Cu, 34.4 g/t Ag, 0.51 g/t Au from 978.26m, including
 - **4.70m @ 4.26% Cu,** 35.3 g/t Ag, 0.59 g/t Au from 979.41m
- DHEM modelling validated by drilling results
- KJCD556 is a significant 120m step down from previous drilling
- Positive implications for extended mine plan and mine life

KGL Resources (**ASX:KGL**) is pleased to announce results from hole KJCD556 which was drilled to test the down-dip continuation of the high-grade Rockface deposit as defined by previous down-hole electromagnetics (DHEM) modelling and drilling.

The Rockface deposit is the highest-grade deposit at Jervois with an average grade of 3.07% Cu and represents 22% of the current total Mineral Resource Estimate.

KGL has pursued a methodical approach to exploration at the Rockface deposit of drilling and DHEM since the first high-grade broad interval of copper was discovered in hole KJCD171 back in 2015. The subsequent DHEM survey uncovered two DHEM conductors below KJCD171. The next few years repeated the process of drilling conductors followed by further DHEM surveys on each hole very successfully, as we have continued to follow the deposit down. The attached long section in **Figure 1**. demonstrates the reliability of DHEM, comparing the locations of conductors against the potential mine plan.

In 2017, KGL finished outlining the current resource where the last conductor uncovered was one of the strongest and open ended at depth. This conductor outlined in the attached long section is the bottom one on the east side. After the draft mine plan was completed in 2021, we then completed the infill drilling to increase the Resource confidence by conversion of some of the inferred resource to indicated resource. Another DHEM survey was completed in 2021. This conductor is on the west side and once again is very strong and extends to depth well below the level of previous drilling. In fact, the DHEM modelling could not define a lower boundary for the mineralisation, which remains open.

KJCD556 was drilled to validate the DHEM conductor 120 metres below the two previously deepest Rockface intersections (KJCD230 and KJCD481D8). We will now do a further DHEM survey to better define the continuance of the conductors.

KJCD556 intersected the Rockface North lode in a position predicted by the DHEM modelling. The hole drilled a 12.38m (estimated true thickness) zone of massive, semi-massive and stringer sulphides comprised mainly of chalcopyrite (copper-iron-sulphide) and pyrite (iron-sulphide). Assays revealed a

¹ All thicknesses are Estimated True Thickness unless otherwise specified



HIGH-GRADE AND THICK COPPER INTERSECTED

120 METRES BELOW PREVIOUS ROCKFACE DRILLING

Level 5, 167 Eagle Street Brisbane QLD 4000 Australia

strong copper-silver-gold intersection in KJCD556 summarised as follows:

- 12.38m¹ @ 2.60% Cu, 23.8 g/t Ag, 0.34 g/t Au from 978.26m including
- 8.74m @ 3.20% Cu, 29.7 g/t Ag, 0.42 g/t Au from 978.26m including
- 5.75m @ 3.86% Cu, 34.4 g/t Ag, 0.51 g/t Au from 978.26m including
- **4.70m @ 4.26% Cu**, 35.3 g/t Ag, 0.59 g/t Au from 979.41m

Results from drillhole KJCD556 are exciting for several reasons:

- Exploration upside:
 - It confirms continuity of the high-grade zone and the strong conductor continues and remains open at depth; and
 - It continues to demonstrate the validity of DHEM as a methodology to prioritise resource drilling in multiple locations across the Jervois exploration tenements.
- 2023 Exploration program focus:
 - o The drilling program in 2023 will include additional exploration holes at Rockface; and
 - As part of the broader exploration program, KGL will be prioritising the resources and reserves within the known mineral deposits and in the northern part of the Jervois tenements with an objective to expand the mine life.

Executive Chairman Denis Wood commented,

"The impressive results of KJCD556 confirm the DHEM modelling and demonstrates that the Rockface system may extend at least 120 metres below previous drilling; and potentially goes much deeper.

"This could be significant for the long-term future of Jervois. The demonstrated potential to extend the mine life of the Rockface underground is clear in Figure 1, which shows the offset position of KJCD556 from the PFS Rockface 6-year mine plan.

"An important understanding derived from our work at Rockface is the close correspondence – almost one to one – between DHEM modelling and high-grade copper mineralisation. Bearing this in mind, we are very encouraged by the open depth potential established by the DHEM models and the strong results from KJCD556.

"Before the end of this year, subject to contractor availability, KGL intends to carry out DHEM survey in KJCD556 which will help firm up additional drilling targets down-dip and along strike for the 2023 program.

"KJCD556 will need to be followed up by additional drilling before incorporation into mineral resources and ore reserves and this will be a sharp focus for the Company in 2023."



HIGH-GRADE AND THICK COPPER INTERSECTED
120 METRES BELOW PREVIOUS ROCKFACE DRILLING

Level 5, 167 Eagle Street Brisbane QLD 4000 Australia

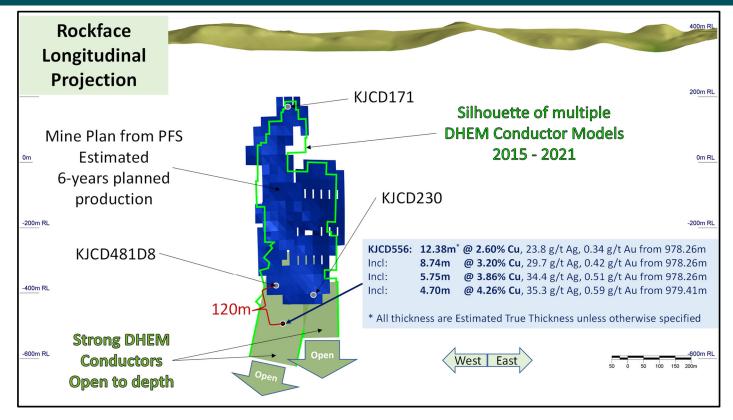


Figure 1: Rockface Deposit, Longitudinal projection showing the pierce point of KJCD556 corresponding with the strong copper intersection. Importantly the DHEM model indicates no lower bound to the Rockface North mineralisation. Note the close correspondence between the perimeter of the DHEM modelling (green outline) and the 6-year underground mine plan from the PFS (blue panels=planned stopes). Prior to KJCD556, the two previous deepest intersections of Rockface North were KJCD230 and KJCD481D8 with their pierce-points shown here, along with discovery hole KJCD171 from 2015.

This announcement has been approved by the directors of KGL Resources Limited.

HIGH-GRADE AND THICK COPPER INTERSECTED

120 METRES BELOW PREVIOUS ROCKFACE DRILLING



Level 5, 167 Eagle Street Brisbane QLD 4000 Australia kglresources.com.au

JORC Code, 2012 Edition - Table

1.1 Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	 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. Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. 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. 	 At Reward diamond drilling and reverse circulation (RC) drilling were used to obtain samples for geological logging and assaying. The core samples comprised a mixture of sawn HQ quarter core, sawn NO half core and possibly BQ half core (historical drilling only). Sample lengths are generally 1m, but at times length were adjusted to take into account geological variations. RC sample intervals are predominantly 1m intervals with some 2 and 4m compositing (historical holes only) RC samples are routinely scanned by KGI Resources with a Niton XRF. Samples assaying greater than 0.1% Cu, Pb or Zn are submitted for analysis at a commercial laboratory. Mineralisation at all deposits is characterized by disseminations, veinlets and large masses of chalcopyrite, associated with magnetite-rich alteration within a psammite. The mineralisation has textures indicative of structural emplacement within specific strata i.e. the mineral appears stratabound. Documentation of the historical drilling (pre-2011) for Reward is variable.
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).	 The KGL and previous Jinka-Minerals RC drilling was conducted using a reverse circulation rig with a 5.25-inch face-sampling bit. Diamond drilling was either in NQ2 or HQ3 drill diameters. Metallurgical diamond drilling (JMET holes were PQ There is no documentation for the historic drilling techniques. Diamond drilling was generally cored from surface with some of the deeper holes at Rockface and Reward utilizing RC precollars. Oriented core has been measured for the recent KGL drilling.
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure 	The KGL RC samples were not weighed on a regular basis but when completed no sample recovery issues were encountered.



HIGH-GRADE AND THICK COPPER INTERSECTED 120 METRES BELOW PREVIOUS ROCKFACE DRILLING

Level 5, 167 Eagle Street Brisbane QLD 4000 Australia

Criteria	JORC Code explanation	Commentary	
	representative nature of the samples. • 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.	 during the drilling program. Jinka Minerals and KGL split the rare overweight samples (>3kg) for assay. Since overweight samples were rarely reported no sample bias was established between sample recovery and grade. Core recovery for recent drilling is >95% with the mineral zones having virtually 100% recovery. No evidence has been found for any relationship between sample recovery and copper grade and there are no biases in the sampling with respect to copper grade and recovery. 	
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. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. The total length and percentage of the relevant intersections logged. 	 All KGL RC and diamond core samples are geologically logged. Logging in conjunction with multi-element assays is appropriate for mineral resource estimation. Core samples are also orientated and logged for geotechnical information. All logging has been converted to quantitative and qualitative codes in the KGL Access database. All relevant intersections were logged. Paper logs existed for the historical drilling. There is very little historical core available for inspection. 	
Sub-sampling techniques and sample preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 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. Whether sample sizes are appropriate to the grain size of the material being sampled. 	 The following describes the recent KGL sampling and assaying process: 	
Quality of assay data and laboratory tests	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the 	 The KGL drilling has QAQC data that includes standards, duplicates and laboratory checks. In ore zones standards are added at a ratio of 1:10 and duplicates and blanks 1:20. 	



HIGH-GRADE AND THICK COPPER INTERSECTED
120 METRES BELOW PREVIOUS ROCKFACE DRILLING

Level 5, 167 Eagle Street Brisbane QLD 4000 Australia

Criteria	JORC Code explanation	Commentary	
	 analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. 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. 	 Base metal samples are assayed using a four-acid digest with an ICP AES finish. Gold samples are assayed by Aqua Regia with an ICP MS finish. Samples over 1ppm Au are re-assayed by Fire Assay with an AAS finish. There are no details of the historic drill sample assaying or any QAQC. All assay methods were deemed appropriate at the time of undertaking. 	
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	Data is validated on entry into the MS Access database, using Database check queries and Maxwell's DataShed. Further validation is conducted when data is imported into Micromine and Leapfrog Geo software Hole twinning was occasionally conducted at Reward with mixed results. This may be due to inaccuracies with historic hole locations rather than mineral continuity issues. For the resource estimation below detection values were converted to half the lower detection limit.	
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. Specification of the grid system used. Quality and adequacy of topographic control. 	 For the KGL drilling surface collar surveys were picked up using a Trimble DGPS, with accuracy to 1 cm or better. Downhole surveys were taken during drilling with a Ranger or Reflex survey tool at 30m intervals All drilling by Jinka Minerals and KGL is referenced on the MGA 94 Zone 53 grid. All downhole magnetic surveys were converted to MGA 94 grid. For Reward there are concerns about the accuracy of some of the historic drillhole collars. There are virtually no preserved historic collars for checking. There is no documentation for the downhole survey method for the historic drilling. Topography was mapped using Trimble DGPS and LIDAR 	
Data spacing and distribution	 Data spacing for reporting of Exploration Results. 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. Whether sample compositing has been applied. 	 Drilling at Rockface was on nominal 50m centres with downhole sampling on 1m intervals. Drilling at Reward was on 25m spaced sections in the upper part of the mineralisation extending to 50m centres with depth and ultimately reaching 100m spacing on the periphery of mineralisation. For Reward shallow oxide RC drilling was conducted on 80m spaced traverses with holes 10m apart. The drill spacing for all areas is appropriate for resource estimation and the relevant 	



HIGH-GRADE AND THICK COPPER INTERSECTED
120 METRES BELOW PREVIOUS ROCKFACE DRILLING

Level 5, 167 Eagle Street Brisbane QLD 4000 Australia

Criteria	JORC Code explanation	Commentary
		 classifications applied. A small amount of sample compositing has been applied to some of the near surface historic drilling.
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. 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. 	 Holes were drilled perpendicular to the strike of the mineralization; the default angle is -60 degrees, but holes vary from -45 to -80. Drilling orientations are considered appropriate and no obvious sampling bias was detected.
Sample security	The measures taken to ensure sample security.	Samples were stored in sealed polyweave bags on site and transported to the laboratory at regular intervals by KGL staff or a transport contractor.
Audits or reviews	 The results of any audits or reviews of sampling techniques and data. 	The sampling techniques are regularly reviewed internally and by external consultants.

1.2 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 operate in the area. 	 The Jervois Project is within EL25429 and EL28082 100% owned by Jinka Minerals and operated by Kentor Minerals (NT), both wholly owned subsidiaries of KGL Resources. The Jervois Project is covered by Mineral Claims and an Exploration licence owned by KGL Resources subsidiary Jinka Minerals.
Exploration done by other parties	 Acknowledgment and appraisal of exploration by other parties. 	 Previous exploration has primarily been conducted by Reward Minerals, MIM and Plenty River.
Geology	Deposit type, geological setting and style of mineralisation.	 EL25429 and EL28082 lie on the Huckitta 1: 250 000 map sheet (SF 53-11). The tenement is located mainly within the Palaeo-Proterozoic Bonya Schist on the northeastern boundary of the Arunta Orogenic Domain. The Arunta Orogenic Domain in the north western part of the tenement is overlain unconformably by Neo-Proterozoic sediments of the Georgina Basin. The stratabound mineralisation for the project consists of a series of complex, narrow, structurally controlled, sub-vertical sulphide/magnetite-rich deposits hosted by Proterozoic-aged, amphibolite grade metamorphosed sediments of the Arunta Inlier. Mineralisation is characterised by veinlets and disseminations of chalcopyrite in association with magnetite. In the oxide zone which is vertically limited malachite, azurite, chalcocite are the main Cu- minerals. Massive to semi-massive galena in



HIGH-GRADE AND THICK COPPER INTERSECTED 120 METRES BELOW PREVIOUS ROCKFACE DRILLING

Level 5, 167 Eagle Street Brisbane QLD 4000 Australia

kglresources.com.au

Criteria	JORC Code explanation	Commentary
		association with sphalerite occur locally in high grade lenses of limited extent with oxide equivalents including cerussite and anglesite in the oxide zone. Generally, these lenses are associated with more carbonate-rich host rocks occurring at Green Parrot, Reward and Bellbird North.
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: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth 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. 	Hole_ID Max_Depth NAT_East NAT_North NAT_RL AZ Grid Dip NICD556 1128.500 628,120.0 7,490,999.0 354.6 140.3 -74.8 For mineralised intercept depths please see tables in the body of the report
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. The assumptions used for any reporting of metal equivalent values should be clearly stated. 	 Minimum grade truncation 0.5%Cu for intercepts above 200m RL Minimum grade truncation 1.0%Cu for intercepts below 200m RL Aggregate intercepts use length-weighting No top-cuts are applied nor considered necessary No metal equivalents are used
Relationship between mineralisation widths and intercept lengths	 These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known'). 	In the main deposit areas, the geometry of the lodes is well known and is used to estimate true widths, which are quoted in the report
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 Figure 1 in the report
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. 	Results for all holes are reported according to the Data Aggregation Methods stated above
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.	 Outcrop mapping of exploration targets using Real time DGPS. IP, Magnetics, Gravity, Downhole EM are all used for targeting Metallurgical studies are well advanced including recovery of the payable metals including Cu, Ag and Au. Deleterious elements such as Pb Zn Bi and F are modelled
Further work	 The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	 The current report relates to infill and mineral resource confirmatory drilling and is ongoing Brownfields and greenfield drilling has also commenced Additional IP and DHEM surveys are planned



HIGH-GRADE COPPER INTERSECTED 120 METRES BELOW PREVIOUS ROCKFACE DRILLING

Level 5, 167 Eagle Street Brisbane QLD 4000 Australia

kglresources.com.au

Competent Person Statement

The information in this announcement that relates to Exploration Results is based on data compiled by John Levings BSc, a Competent Person who is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Levings is Principal Geologist for the Company. Mr Levings has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which is being undertaking to qualify as a Competent Person as defined in the 2012 Edition of 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Levings consents to the inclusion in the announcement of the matters based on his information in the form and context in which it appears.

The Rockface Resources information were first released to the market on 07/03/2022 and complies with JORC 2012. The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The Jervois Prefeasibility Study information were first released to the market on 02/12/2020 and complies with JORC 2012.

The following drill holes were originally reported on the date indicated and using the JORC code specified in the table.

Hole		Date originally Reported	JORC Reported Under
KJCD	171	22/10/2015	2012
KJCD	230	13/04/2018	2012
KJCD	481D8	8/12/2021	2012

Forward Looking statements

This release includes certain forward-looking statements. The words "forecast", "estimate", "like", "anticipate", "project", "opinion", "should", "could", "may", "target" and other similar expressions are intended to identify forward looking statements. All statements, other than statements of historical fact, included herein, including without limitation, statements regarding forecast cash flows and potential mineralisation, resources and reserves, exploration results and future expansion plans and development objectives of KGL are forward-looking statements that involve various risks and uncertainties. Although every effort has been made to verify such forward-looking statements, there can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. You should therefore not place undue reliance on such forward-looking statements.

Statements regarding plans with respect to the Company's mineral properties may contain forward looking statements. Statements in relation to future matters can only be made where the Company has a reasonable basis for making those statements.