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High grade copper results from KGL Resources Jervois Project

Highlights

- **Assay results for KJCD183 return 16m @ 3.34% Cu, 16.7g/t Ag, 0.17g/t Au from 362 m**
- **Down Hole Electromagnetic Survey confirms a large conductor below KJCD183**

KGL Resources (ASX:KGL) is pleased to announce that results from the first of three diamond drill holes at the Rockface prospect has confirmed the high grade copper mineralisation observed in the core. Holes KJCD 182 and 183 were designed to intersect off-hole electromagnetic (EM) conductors modelled below hole KJCD171 drilled in 2015 that intersected 13m @ 2.14% Cu, 12.5g/t Ag from 255m and 2m @ 2.38% Cu, 10.8g/t Ag from 278m (Figure 1).

Diamond hole KJCD183 intersected an extension of the massive magnetite-chalcopyrite mineralisation that was first intersected in KJCD171. Chalcopyrite occurs as fracture and breccia fill within the magnetite grading into zones of semi-massive chalcopyrite-pyrite. The magnetite-chalcopyrite mineralisation is located at the sheared contact between a metamorphosed siltstone/mudstone sequence and a footwall meta-sandstone unit. The sediments have been intensely altered to a chlorite-biotite-garnet-magnetite assemblage.

Diamond hole KJCD182 was drilled 50m to the east and slightly above KJCD183 to test a second DHEM conductor. This hole also intersected a broad zone of massive magnetite-chalcopyrite similar to KJCD183 (Figure 2). Results for KJCD182 are pending.

Hole KJCD194 was designed to test the mineralisation above hole KJCD171. Very finely disseminated sulphides in RC chips at 150m indicated the start of an alteration zone that contained an assemblage of chlorite, biotite schist with minor garnet and finely disseminated pyrite.

A significant change in mineralogy at 165 metres, indicating the mineralised zone, was accompanied by an increase in disseminated pyrite and minor chalcopyrite associated with zones of moderate to strong magnetite to 197 metres. Conversion to diamond drilling showed a small, 0.9m wide exposure of core from the mineralised zone that included disseminated pyrite and chalcopyrite with a strong magnetite association. An abrupt footwall contact zone of a psammitic, biotite, chlorite, schist occurred at 210.4 metres and then a zone of andalusite schist in the unmineralised foot wall.

Downhole electromagnetic surveys have now been completed on KJCD182, KJCD183 and KJCD194. The additional holes have helped refine the location and orientation of the large Conductor 3 target. The remodelling has now extended Conductor 3 to a size of 145m x 145m and it now extends a further 40m down dip than previously modelled with the bottom edge approximately 150m below the high grade intersection in the deepest hole KJCD183 (Figure 4). Conductor 3 is also coincident with the zone of high chargeability identified in the 3DIP survey conducted in 2015 (Figure 1).

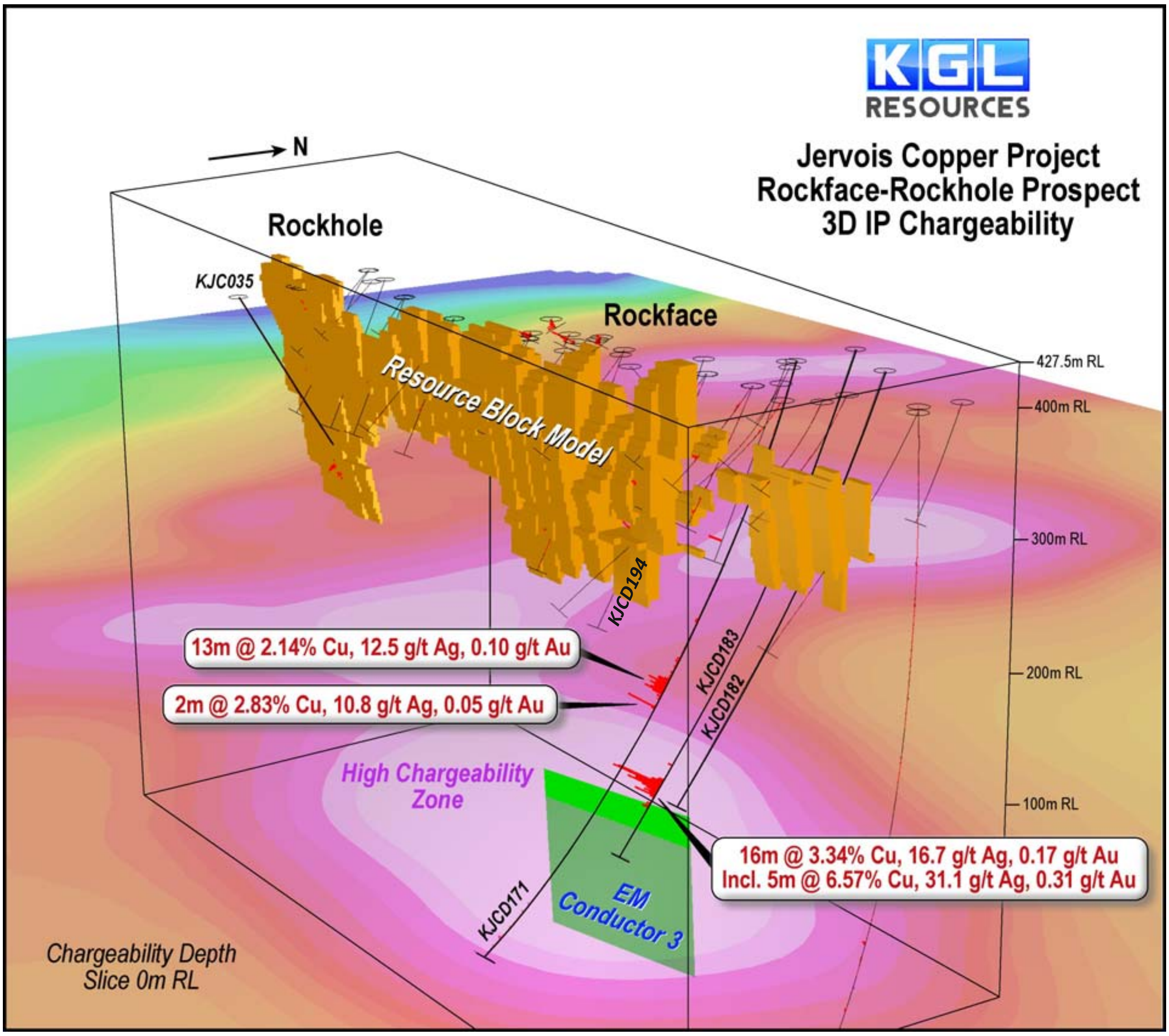

FIGURE 1 PERSPECTIVE VIEW OF ROCKFACE (LOOKING NORTH-WEST)

Background

The Rockface prospect is located 1.2km southeast of the Bellbird resource at the southern end of the Jervois 'J-Fold' (Figure 6). Rockface is located on a mineralised trend that extends for 12km from Bellbird in the west, to Cox's Find, Green Parrot and then north to the Marshall-Reward resource. Small drilling programs were completed at Rockface and the nearby Rockhole prospects in 2014 and 2015 with moderate grade mineralisation intersected in steeply plunging shoots at the sheared contact between a metamorphosed siltstone/mudstone sequence and a footwall sandstone unit. An Orion 3D induced polarisation survey conducted in 2015 identified a large chargeability anomaly below Rockface that was drill tested intersecting a broad zone of massive magnetite-chalcopyrite in KJCD171. A subsequent downhole electromagnetic survey on KJCD171 identified two off-hole conductors that were the target of the diamond drilling programme completed in March 2016.

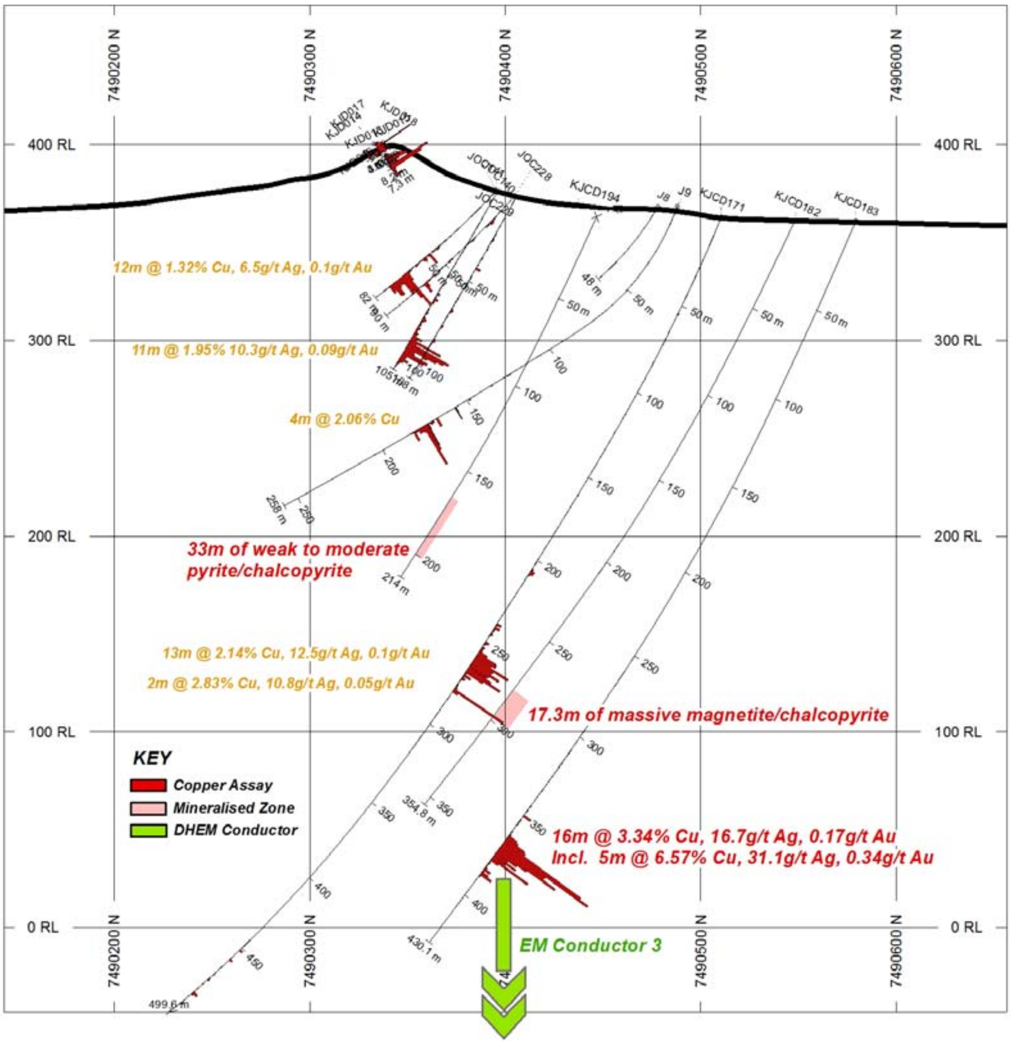

FIGURE 2 ROCKFACE CROSS SECTION OF628360E

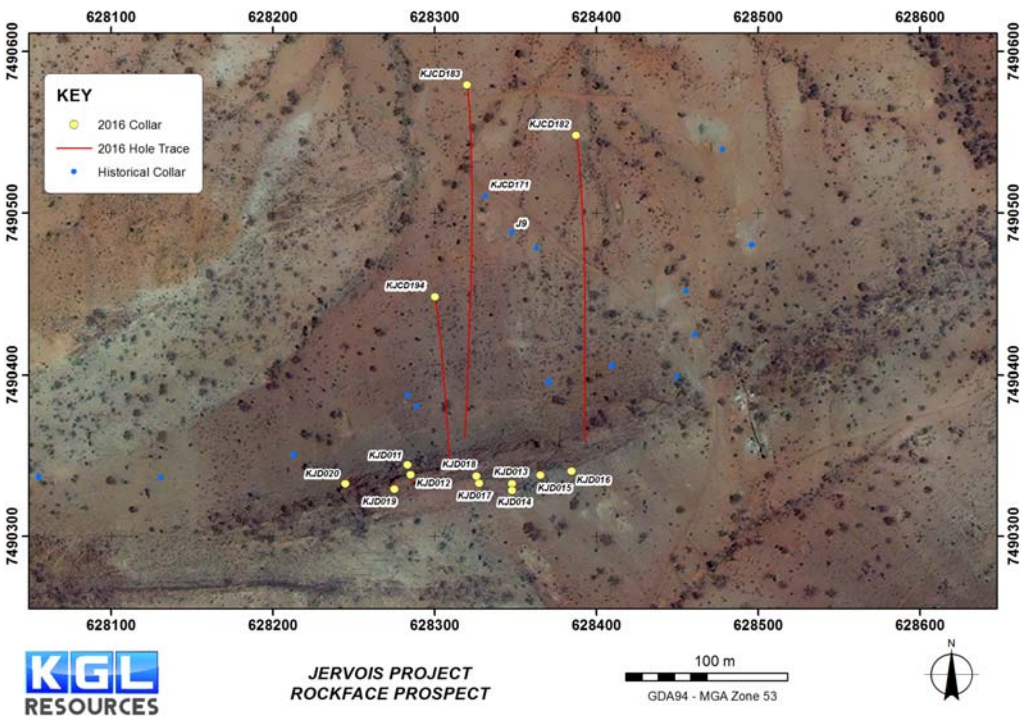

FIGURE 3 PLAN OF DRILLING AT ROCKFACE

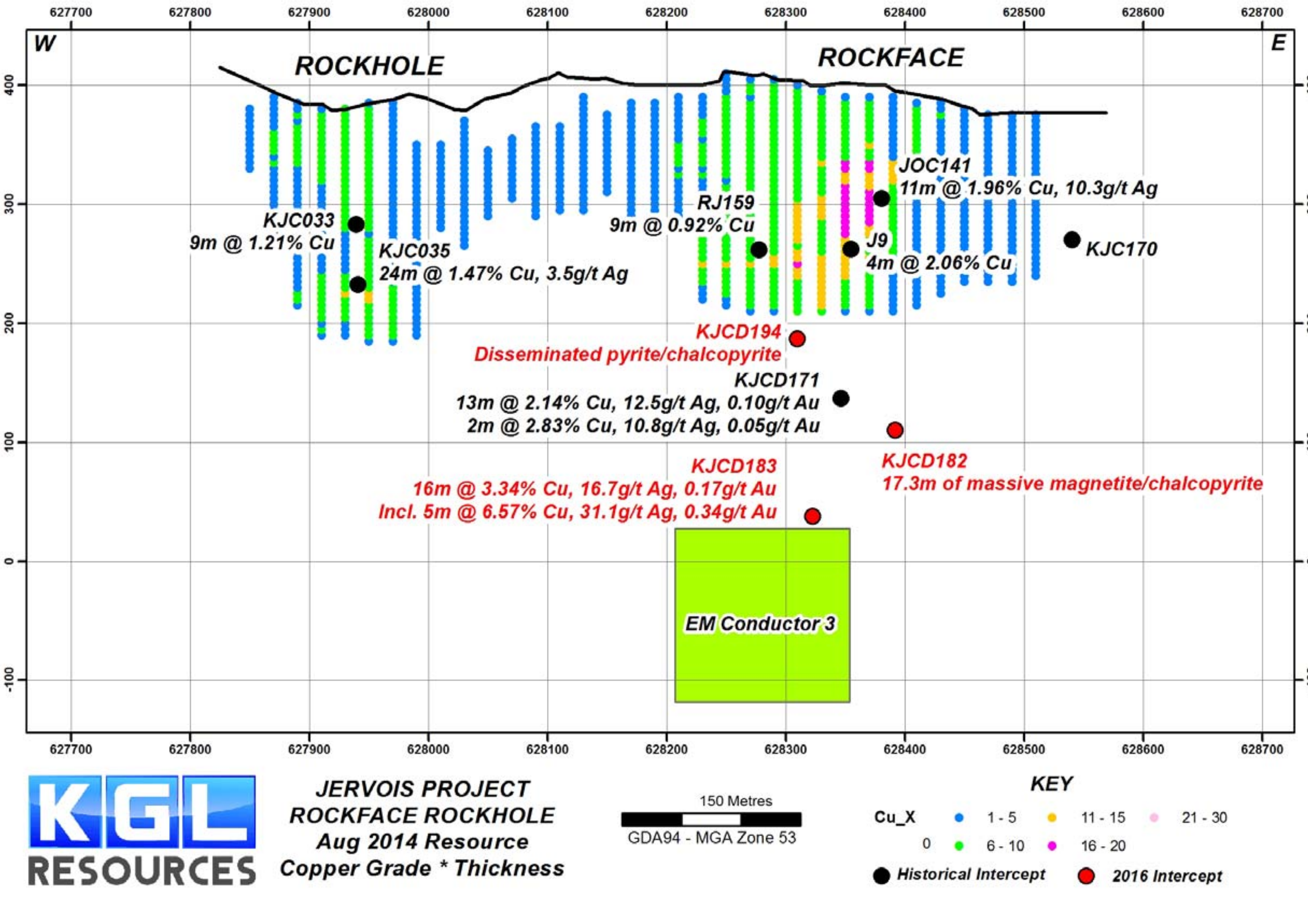

Figure 4 Long section of Rockface

TABLE 1 TABLE OF SIGNIFICANT RESULTS

Hole ID	Easting (m)	Northing (m)	RL (m)	Dip	Azimuth	BOX[1] (m)	Total Depth (m)	From (m)	To (m)	Interval (m)	ETW[2] (m)	Cu %	Pb %	Zn %	Ag g/t	Au g/t
KJCD183	628320.3	7490579.3	361.1	-67.4	173.8	n/a	430.10	349	350	1	0.7	0.75	0	0.01	2	0.03
								362	378	16	11.7	3.34	0.03	0.08	16.7	0.17
								383	387	4	2.9	0.65	0	0.03	1.6	0.01

[1]BASE OF OXIDISATION DOWN HOLE DEPTH [2]ESTIMATED TRUE WIDTH

TABLE 2 INDIVIDUAL ASSAYS

Hole ID	From m	To M	Interval m	Copper %	Lead %	Zinc %	Silver g/t	Gold g/t
KJCD183	361	362	1	0.15%	0.01%	0.03%	1.1	0.005
KJCD183	362	363	1	0.90%	0.01%	0.02%	6	0.02
KJCD183	363	364	1	1.13%	0.01%	0.04%	5.6	0.05
KJCD183	364	365	1	1.96%	0.02%	0.02%	10.9	0.04
KJCD183	365	366	1	2.14%	0.05%	0.03%	11.6	0.05
KJCD183	366	367	1	8.28%	0.11%	0.10%	39.2	0.45
KJCD183	367	368	1	9.18%	0.08%	0.13%	39.3	0.3
KJCD183	368	369	1	4.72%	0.07%	0.07%	25.8	0.56
KJCD183	369	370	1	4.65%	0.05%	0.07%	23.4	0.26
KJCD183	370	371	1	6.01%	0.02%	0.07%	27.8	0.15
KJCD183	371	372	1	3.06%	0.01%	0.02%	15.6	0.15
KJCD183	372	373	1	2.13%	0.02%	0.10%	12.7	0.07
KJCD183	373	374	1	1.25%	0.01%	0.04%	7.7	0.06
KJCD183	374	375	1	2.27%	0.01%	0.04%	10.5	0.07
KJCD183	375	376	1	1.17%	0.01%	0.07%	6.3	0.1
KJCD183	376	377	1	3.83%	0.04%	0.35%	20.9	0.23
KJCD183	377	378	1	0.75%	0.01%	0.06%	3.3	0.08

Colour coding* ***Red–Orange-Yellow-Green* *represents* ***High to Low*** *values*

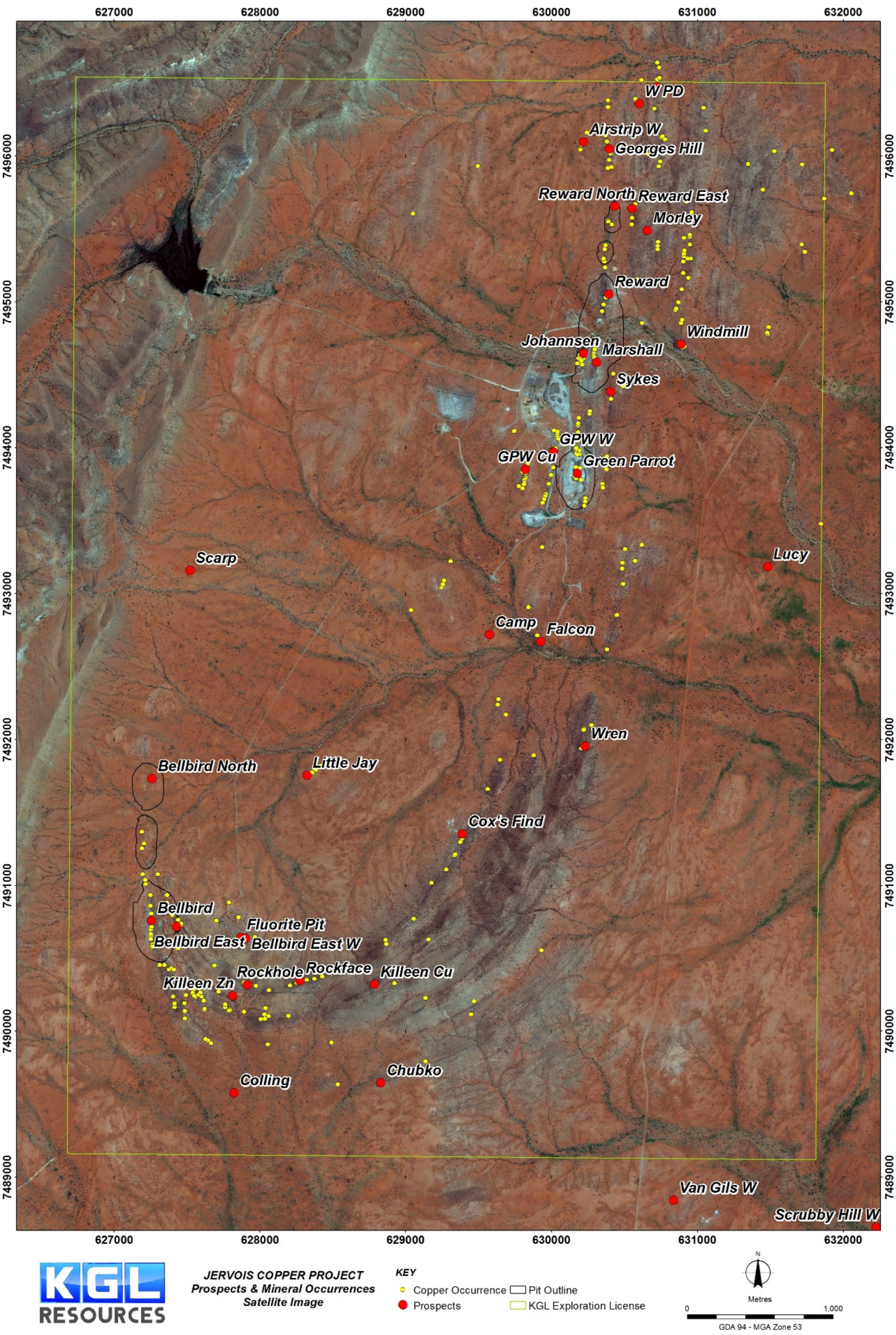

FIGURE 5 JERVOIS PROJECT PROSPECT LOCATION

For further information contact:

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About KGL Resources

KGL Resources Limited is an Australian mineral exploration company focussed on increasing the high grade Resource at the Jervois Copper-Silver-Gold Project in the Northern Territory and developing it into a multi-metal mine.

Competent Person Statement

The Jervois Exploration data in this report is based on information compiled by Martin Bennett, who is a member of the Australian Institute of Geoscientists and a full time employee of KGL Resources Limited.

Mr. Bennett has sufficient experience which is relevant to the style of the mineralisation and the type of deposit under consideration and to the activity to 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. Bennett has consented to the inclusion of this information in the form and context in which it appears in this report.

The following drill holes were originally reported on the date indicated and using the JORC code specified in the table. Results reported under JORC 2004 have not been updated to comply with JORC 2012 on the basis that the information has not materially changed since it was last reported.

Hole	Date originally Reported	JORC Reported Under
KJCD171	22/10/2015	2012
KJC033	08/11/2013	2004
KJC035	08/11/2013	2004
RJ159	08/11/2013	2004
JOC141	01/08/2014	2012
J9	08/11/2013	2004

1 JORC Code, 2012 Edition – Table 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 (eg 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 (eg '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 (eg submarine nodules) may warrant disclosure of detailed information.*	• Diamond drilling and reverse circulation (RC) drilling were used to obtain samples for geological logging and assaying. • RC drill holes are sampled at 1m intervals and split using a cone splitter attached to the cyclone to generate a split of ~3kg. • Diamond core was quartered with a diamond saw and generally sampled at 1m intervals with shorter samples at geological contacts. • RC samples are routinely scanned with a Niton XRF. Samples assaying greater than 0.1% Cu, Pb or Zn are submitted for analysis at a commercial laboratory.
Drilling techniques	• *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg 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).*	• RC Drilling was conducted using a reverse circulation rig with a 5.25" face-sampling bit. Diamond drilling was either in NQ2 or HQ3 drill diameters. Metallurgical diamond drilling (JMET holes) were PQ
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *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.*	• RC samples were not weighed on a regular basis but no sample recovery issues were encountered during the drilling program. • Overweight samples (>3kg) were re-split with portable riffle splitter
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 RC and diamond core samples are geologically logged. Core samples are also orientated and logged for geotechnical information.
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.*	• RC drill holes are sampled at 1m intervals and split using a cone splitter attached to the cyclone to generate a split of ~3kg. • Diamond core was quartered with a diamond saw and generally sampled at 1m intervals with shorter samples at geological contacts. • RC sample splits (~3kg) are pulverized to 85% passing 75 microns. • Diamond core samples are crushed to 70% passing 2mm and then pulverized to 85% passing 75 microns.
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 analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.* • *Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.*	• The QAQC data includes standards, duplicates and laboratory checks. In ore zones Standards are added at a ratio of 1:10 and duplicates and blanks 1:20. • Basemetal 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. • An umpire laboratory is used to check ~1% of samples analysed.
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*	• Data is validated on entry into the Datashed database. • Further validation is conducted when data is imported into Vulcan

Criteria	JORC Code explanation	Commentary
	verification, data storage (physical and electronic) protocols. • *Discuss any adjustment to assay data.*	
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.*	• Surface collar surveys were picked up using a Trimble DGPS. • Downhole surveys were taken during drilling with a Ranger or Reflex survey tool every 30m with checks conducted with a Gyrosmart gyro and Azimuth Aligner. • All drilling is conducted on the MGA 94 Zone 53 grid. All downhole magnetic surveys were converted to MGA 94 grid.
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 for Inferred resources has been conducted at a spacing of 50m along strike and 80m within the plane of the mineralized zone. Closer spaced drilling was used for Indicated resources. • Shallow oxide RC drilling was conducted on 80m spaced traverses with holes 10m apart
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 a default angle of -60 degrees but holes vary from -45 to -80.
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.

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 E30242 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.*	• EL30242 lies 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 copper-lead-zinc mineralisation is interpreted to be stratabound in nature, probably relating to the discharge of base metal-rich fluids in association with volcanism or metamorphism or dewatering of the underlying rocks at a particular time in the geological history of the area.
Drill hole	• *A summary of all information material to the understanding of*	• Refer Table 1

Criteria	JORC Code explanation	Commentary
Information	*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.*	
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.*	• Refer Table 1 & 2
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').*	• Refer Table 1
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 Figures 1,2,3,4 & 5
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 Table 1 & 2
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. • Refer Figure 1 & 5
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.*	• Refer Figures 1,4 &5