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### 20 February 2015

## Diamond drilling confirms high grades at Jervois

KGL Resources (ASX:KGL) is pleased to announce that diamond drilling at Marshall, Reward, Green Parrot and Bellbird has confirmed shallow, high-grade mineralisation and provided material for further metallurgical test work. Significant results from this program included:

#### Reward

- 23m @ 1.68% Cu, 21.3g/t Ag, 0.4g/t Au from 29 m and
- 3m @ 3.02% Cu, 0.13% Pb, 0.87% Zn, 26g/t Ag, 0.22g/t Au from 58 m (Hole JMET016)
- 5m @ 1.08% Cu, 18g/t Ag, 0.16g/t Au from 29 m and
- 12m @ 3.47% Cu, 0.36% Zn, 44.4g/t Ag, 0.91g/t Au from 40 m (Hole JMET017)

#### Marshall

8m @ 4.58% Cu, 0.37% Pb, 0.14% Zn, 89g/t Ag, 0.51g/t Au from 20 m (JMET019)

#### **Green Parrot**

- 6m @ 1.3% Cu, 0.71% Pb, 0.27% Zn, 104.5g/t Ag, 0.82g/t Au from 14 m and
- 7m @ 2.84% Cu, 2.32% Pb, 0.4% Zn, 158.9g/t Ag, 0.04g/t Au from 22 m (Hole JMET022)

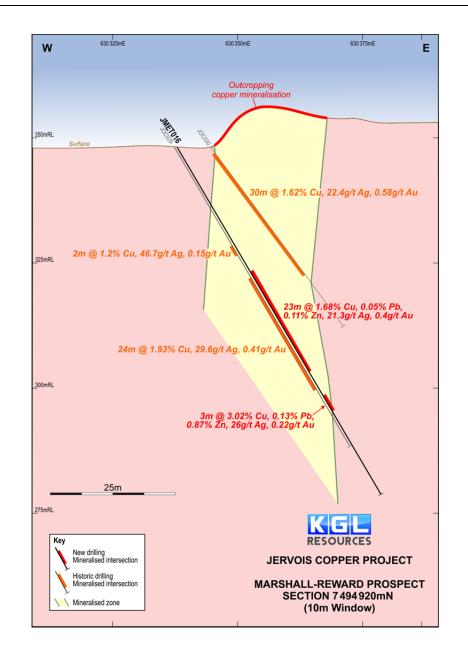
### **Bellbird**

- 12m @ 1.48% Cu, 10.8g/t Ag, 0.13g/t Au from 41 m (Hole JMET20)
- 4m @ 2.73% Cu, 7.5g/t Ag, 0.2g/t Au from 18 m and
- 9m @ 5.57% Cu, 44g/t Ag, 0.19g/t Au from 53 m (Hole JMET21)

On the 14<sup>th</sup> February Mitchell Services commenced a 9,000m RC drilling program focussed on the Marshall-Reward and Bellbird resources.

During Nov/Dec 2014 a total of ten metallurgical holes were drilled with at least two holes within each of the main deposits to provide material to enable further test work. This test work program that commenced in January, is designed to optimise the recoveries of base and precious metals in the high grade transitional zone. This also includes comminution test work to confirm through put rates of the transitional ore in the crushing and milling circuit in addition to providing important information of the structure and density of the ore.

Simon Milroy, the Managing Director of KGL Resources comments, "We continue to see good grades in base and precious metals in this drilling program. Most of the drilling within the transitional zone has been RC and this diamond drilling provides important validation of the previous drilling."



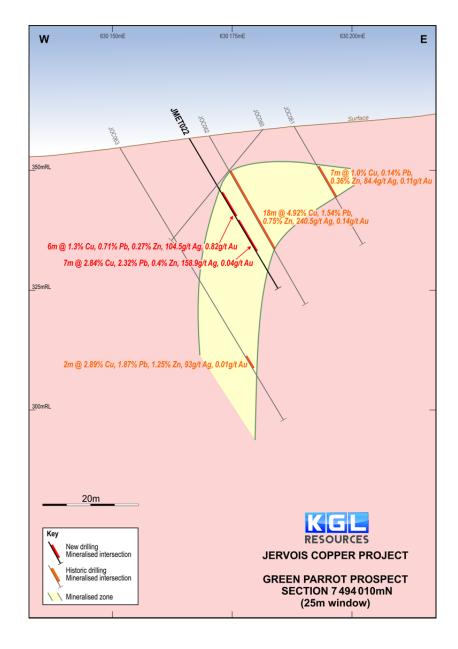


Figure 1 Marshall Cross-Section 7494920N

## Figure 2 Green Parrot Cross Section 7494010N

Table 1 Table of significant results

Hole ID	Easting (m)	Northing (m)	RL (m)	Dip	Azimuth	BOX <sup>1</sup> (m)	Total Depth (m)	From (m)	To (m)	Interval (m)	ETW² (m)	Cu %	Pb %	Zn %	Ag g/t	Au g/t
JMET014	630257	7494516	355	-50	90	30	56.5	32	39	7	4.6	1.06	0.23	0.12	50.3	0.81
JMET015	630310	7494589	354	-60	270	33	59.6	21	24	3	1.5	5.57	0.08	0.1	37.5	0.55
								25	26	1	0.5	0.67	0.06	0.19	21.8	0.04
JMET016	630343	7494922	348	-61	90	26	80.6	29	52	23	11.8	1.68	0.05	0.11	21.3	0.4
								58	61	3	1.6	3.02	0.13	0.87	26	0.22
JMET017	630340	7495022	366	-61	90	33	71.2	22	27	5	2.5	0.27	0.33	0.04	33.2	0.2
								29	34	5	2.5	1.08	0.11	0.07	18	0.16
								40	52	12	6.1	3.47	0.1	0.36	44.4	0.91
								58	59	1	0.5	0.68	0.04	0.17	4.2	0.04
JMET018	630377	7495076	373	-60	270	49	68.6	7	11	4	2.0	2.97	0.53	0.65	52	0.18
								23	25	2	1.0	0.24	0.46	0.42	64.3	0.05
								26	34	8	4.0	1.62	17.93	3.55	411.6	0.23
								35	37	2	1.0	0.02	0.03	0.15	1.8	2.85
								42	45	3	1.5	0.71	0.13	0.46	4.8	0.13
								48	49	1	0.5	2.06	0.13	0.3	8.6	0.29
								50	53	3	1.5	0.7	0.1	0.19	2.2	0.01
JMET019	630309	7494659	354	-60	270	35	57.4	20	28	8	4.0	4.58	0.37	0.14	89	0.51
								31	32	1	0.5	0.82	0.06	0.03	7.3	0.11
								34	35	1	0.5	0.77	0.12	0.05	6.2	0.04
								43	44	1	0.5	0.86	0.38	0.03	15.4	0.01
JMET020	627286	7490805	365	-61	270	33	58.2	19	20	1	0.6	0.64	0.02	0.02	6.6	0.06
								27	28	1	0.6	1.61	0.01	0.02	4.3	0.07
								41	53	12	7.6	1.48	0.04	0.02	10.8	0.13
JMET021	627296	7490645	367	-56	270	29	65.8	18	22	4	2.8	2.73	0.01	0.02	7.5	0.2
								25	26	1	0.7	0.95	0.01	0.02	2.1	0
								33	34	1	0.7	1.02	0	0.01	2.9	0.02
								38	39	1	0.7	0.52	0	0.01	3.3	0.06
								42	44	2	1.4	2.52	0.01	0.01	10.8	0.11

Hole ID	Easting (m)	Northing (m)	RL (m)	Dip	Azimuth	BOX <sup>1</sup> (m)	Total Depth (m)	From (m)	To (m)	Interval (m)	ETW² (m)	Cu %	Pb %	Zn %	Ag g/t	Au g/t
JMET021								51	52	1	0.7	0.63	0	0.02	5.1	0.02
								53	62	9	6.3	5.57	0.06	0.02	44	0.19
JMET022	630165	7494006	358	-59	90	0	38.4	14	20	6	3.1	1.3	0.71	0.27	104.5	0.82
								22	29	7	3.6	2.84	2.32	0.4	158.9	0.04
JMET023	630155	7493877	344	-55	90	0	83.3	20	22	2	1.2	0.64	0.01	0.16	41	0.06
								27	28	1	0.6	0.18	9.02	0.57	198	0.05
								31	32	1	0.6	0.18	0.95	0.43	33.5	0.03
								62	63	1	0.6	1.21	0.93	0.56	51	0.08
								68	72	4	2.4	2.43	6.45	6.17	217.1	0.01

<sup>&</sup>lt;sup>1</sup>Base of Oxidisation down hole depth <sup>2</sup>Estimated true width

### 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		
JOC	29	16/06/2014	2012		
JOC	30	29/05/2013	2012		
JOC	60,61,62,63	18/07/2014	2012		

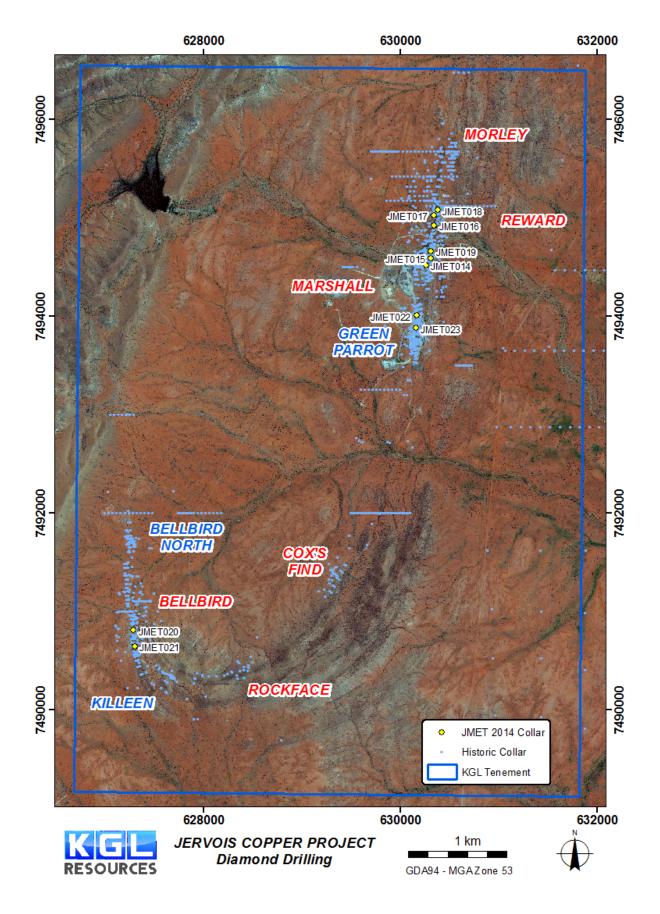


Figure 3 Plan of diamond drilling for metallurgical testwork

# 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	<ul> <li>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.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>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.</li> </ul>	<ul> <li>Diamond drilling and reverse circulation (RC) drilling were used to obtain samples for geological logging and assaying.</li> <li>RC drill holes are sampled at 1m intervals and split using a cone splitter attached to the cyclone to generate a split of ~3kg.</li> <li>Diamond core was quartered with a diamond saw and generally sampled at 1m intervals with shorter samples at geological contacts.</li> <li>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.</li> </ul>
Drilling techniques	<ul> <li>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).</li> </ul>	<ul> <li>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</li> </ul>
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>	<ul> <li>RC samples were not weighed on a regular basis but no sample recovery issues were encountered during the drilling program.</li> <li>Overweight samples (&gt;3kg) were re-split with portable riffle splitter</li> </ul>
Logging	<ul> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	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	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>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.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul> <li>RC drill holes are sampled at 1m intervals and split using a cone splitter attached to the cyclone to generate a split of ~3kg.</li> <li>Diamond core was quartered with a diamond saw and generally sampled at 1m intervals with shorter samples at geological contacts.</li> <li>RC sample splits (~3kg) are pulverized to 85% passing 75 microns.</li> <li>Diamond core samples are crushed to 70% passing 2mm and then pulverized to 85% passing 75 microns.</li> </ul>
Quality of assay data and laboratory tests	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times,</li> </ul>	<ul> <li>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.</li> <li>Basemetal samples are assayed using a four acid digest with an ICP AES finish.</li> </ul>

Criteria	JORC Code explanation	Commentary
	<ul> <li>calibrations factors applied and their derivation, etc.</li> <li>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.</li> </ul>	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	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul> <li>Data is validated on entry into the Datashed database.</li> <li>Further validation is conducted when data is imported into Vulcan</li> </ul>
Location of data points	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul> <li>Surface collar surveys were picked up using a Trimble DGPS.</li> <li>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.</li> <li>All drilling is conducted on the MGA 94 Zone 53 grid. All downhole magnetic surveys were converted to MGA 94 grid.</li> </ul>
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul> <li>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.</li> <li>Shallow oxide RC drilling was conducted on 80m spaced traverses with holes 10m apart</li> </ul>
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul>	<ul> <li>Holes were drilled perpendicular to the strike of the mineralization a default angle of -60 degrees but holes vary from -45 to - 80.</li> </ul>
Sample security	The measures taken to ensure sample security.	<ul> <li>Samples were stored in sealed polyweave bags on site and transported to the laboratory at regular intervals by KGL staff or a transport contractor.</li> </ul>
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	<ul> <li>The sampling techniques are regularly reviewed.</li> </ul>

## **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	<ul> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> </ul>	<ul> <li>The Jervois project is within E30242 100% owned by Jinka Minerals and operated by Kentor Minerals (NT), both wholly owned subsidiaries of KGL Resources.</li> <li>The Jervois project is covered by Mineral</li> </ul>
	<ul> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul>	Claims and an Exploration licence owned by KGL Resources subsidiary Jinka Minerals.
Exploration done by other parties	<ul> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul> <li>Previous exploration has primarily been conducted by Reward Minerals, MIM and Plenty River.</li> </ul>
Geology	Deposit type, geological setting and style of mineralisation.	<ul> <li>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</li> </ul>

Criteria	JORC Code expla	anation	Con	nmentary
			•	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 Information	the explora information	of all information material to the understanding of tion results including a tabulation of the following for all Material drill holes:	•	Refer Table 1
	o elevatio	n and northing of the drill hole collar on or RL (Reduced Level – elevation above sea		
		metres) of the drill hole collar		
	•	d azimuth of the hole nole length and interception depth		
	o hole lei			
	If the exclusion     the information     detract from	sion of this information is justified on the basis that tition is not Material and this exclusion does not in the understanding of the report, the Competent buld clearly explain why this is the case.		
Data aggregation methods	techniques,	g Exploration Results, weighting averaging , maximum and/or minimum grade truncations (eg igh grades) and cut-off grades are usually Material l be stated.	•	Refer Table 1
	grade resul procedure i	rregate intercepts incorporate short lengths of high Its and longer lengths of low grade results, the used for such aggregation should be stated and al examples of such aggregations should be etail.		
		ptions used for any reporting of metal equivalent uld be clearly stated.		
Relationship between		tionships are particularly important in the reporting ion Results.	•	Refer Table 1
mineralisation widths and		netry of the mineralisation with respect to the drill is known, its nature should be reported.		
intercept lengths	there shoul	nown and only the down hole lengths are reported, ld be a clear statement to this effect (eg 'down hole width not known').		
Diagrams	of intercept being repor	e maps and sections (with scales) and tabulations its should be included for any significant discovery red These should include, but not be limited to a of drill hole collar locations and appropriate iews.	•	Refer Figures 1, 2 & 3
Balanced reporting	not practica grades and	nprehensive reporting of all Exploration Results is able, representative reporting of both low and high thought should be practiced to avoid misleading f Exploration Results.	•	Refer Table 1
Other substantive exploration data	reported ind observation results; bull metallurgica geotechnica	pration data, if meaningful and material, should be cluding (but not limited to): geological as; geophysical survey results; geochemical survey k samples – size and method of treatment; al test results; bulk density, groundwater, al and rock characteristics; potential deleterious or ing substances.	•	Outcrop mapping of exploration targets using Real time DGPS.
Further work		and scale of planned further work (eg tests for nsions or depth extensions or large-scale step-out	•	Refer Figure 3
	extensions, future drillir	clearly highlighting the areas of possible , including the main geological interpretations and ng areas, provided this information is not lly sensitive.		

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