

ASX Announcement 9 April 2024

CANBELEGO COPPER RESOURCE GROWTH POTENTIAL EXPANDED WITH NEW GEOPHYSICAL SURVEY

Highlights

- A new 1,200 metre (m) Induced Polarisation (IP) geophysics anomaly identified in addition to the two recently identified¹ IP anomalies west of the Canbelego Main Lode Resource² highlights exciting potential to increase the existing copper Mineral Resource (Refer Figure 1 – Canbelego Target Location Plan).
- A new gradient array induced polarisation (GAIP) survey at Canbelego Main Lode identified a highly prospective +1,200m conductive zone extending north of Canbelego coincident with surface copper geochemical anomalism.
- There are now three, new, undrilled, prospective target zones around the Canbelego Copper Resource¹ defined by a series of recent geophysical surveys.
- A GAIP survey conducted to the south along the Rochford Copper Trend at the Caballero Prospect has identified a 2,400m conductive zone which occurs coincident with surface copper geochemical anomalism.
- The new geophysics anomalies at Canbelego and Caballero are largely undrilled and as they correlate strongly with surface copper geochemical anomalism, are considered very prospective for copper mineralisation.
- Follow-up geophysics will commence next week (subject to weather) over both prospective areas to better define targets. This work is optimising drill metres and expenditure through more refined targeting and drilling is now planned to commence in May.

Helix Resources Ltd (ASX:HLX, Helix or the Company) is pleased to announce the continued success of its IP geophysical survey techniques to rapidly delineate key zones that correlate with known copper anomalism at the Canbelego and Caballero joint venture projects.³

A GAIP survey has identified a highly prospective 1,200m conductive zone at the Canbelego Main Lode² extending north of Canbelego and coincident with surface copper geochemical anomalism. This conductive zone, along with two IP anomalies recently identified west of the Canbelego Main Lode Copper Resource² (**Figure 1**), highlights the potential to expand the existing copper inventory.

In addition, a 2,400m conductive zone was also identified from the GAIP survey at the Caballero Prospect to the south along the Rochford Copper Trend.

These new geophysics anomalies at Canbelego and Caballero are largely undrilled.

³ Canbelego & Cabellero occur on EL6105 a 70:30 JV with Aeris Resources Ltd (ASX:AIS), (HLX 70% & AIS 30%).



BOARD & MANAGEMENT Chair Mike Rosenstreich Executive Technical Director Kyle Prendergast Non-Executive Director Emmanuel Correia CAPITAL STRUCTURE Share 2,323M Market Cap.

\$9.3M

\$0.004

Share Price

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¹ Refer ASX Report 29 February 2024.

² Refer Appendix A for further details on Mineral Resource estimate.



Helix's Executive Technical Director, Kylie Prendergast commented:

"The new geophysical survey results show there are significant new copper targets in close proximity to known, high-grade copper mineralisation at the Canbelego deposit⁴. This is generating a lot of excitement in the Helix team on our ability to expand our Canbelego Copper Mineral Resources with drilling scheduled to start in May.

Helix is strongly focused on growing its copper endowment in the prolific Cobar region and is systematically assessing its entire tenement portfolio with innovative methods to make new discoveries So we are very pleased to report that following on from the initial Pole-Dipole Induced Polarisation (PDIP) geophysical surveys, we have successfully deployed wide coverage GAIP geophysics to refine the location and extent of conductive zones at Canbelego and Caballero, so far.

We have high confidence that the conductive zones represent mineralised structures due to the correlation of copper geochemical anomalism at surface with these conductive zones and our new geological modelling. Now we will move to test the anomalies with PDIP geophysics. This will test down to depths of about 400m and we will be seeking to identify chargeability zones that could represent sulphide copper mineralisation, ideally similar to those that we identified very effectively with this technique at the high-grade Canbelego deposit⁴.

Helix is systematically generating a large pipeline of targets which we will further refine, prioritise and then test the best of them with drilling in May subject to weather."

Introduction

The Canbelego copper deposit⁵ and the Caballero and Bijoux prospects are located in the regionally significant Rochford Trend. The Company has previously reported that an orientation pole-dipole induced polarisation (PDIP) survey confirmed that the Canbelego Main Lode copper mineralisation is detectable by IP⁶. A broader scale gradient array induced polarisation (GAIP) survey has now been completed over a 16km² area extending from north of the Main Lode to south of the Caballero prospect, and a second 5km² GAIP survey is currently in progress over the Bijoux copper prospect (**Figure 2**).

The objective of the GAIP surveys is to identify conductivity anomalies, which may be directly associated with copper sulphide, or with conductive rocks that may host copper sulphide.

The Canbelego and Caballero project areas lie within EL6105, a joint venture with Aeris Resources Ltd (ASX:AIS); Helix holds 70% and manages the JV, Aeris 30%. The Bijoux prospect, also being surveyed but with results pending is 100% held by Helix as with the rest of Helix's Cobar regional tenements.

The Canbelego GAIP survey consisted of 28 survey lines, each 2.9km long and spaced 200m apart extending from north of the Main Lode Mineral Resource⁷ to south of the Caballero copper prospect (**Figures 2** to **4**). Further details on the IP survey specifications and data processing are provided in **Attachment 1** (JORC Table 1).

⁴ Refer Appendix A for further details on the Canbelego Mineral Resource Estimate (MRE).

⁵ Refer Appendix A for details on the Canbelego Mineral Resource Estimate (MRE).

⁶ Refer ASX report 29 February 2024

⁷ Refer Appendix A for further details.

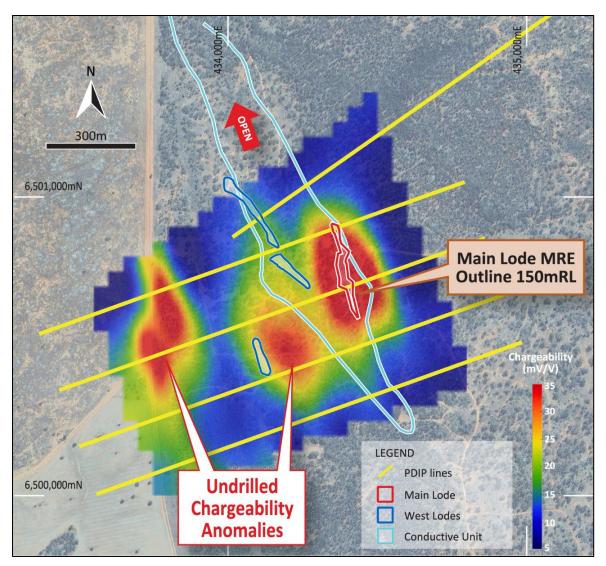


Figure 1: Canbelego Target Location Plan. Note – Main Loade Mineral Resource Estimate (MRE) located on current Canbelego 3D inversion PDIP chargeability depth slice at 130mRL (175m below surface) and location of new GAIP conductivity anomaly in lighter blue outline.

Canbelego GAIP Results

The GAIP chargeability and resistivity results are displayed in **Figure 3**. The Canbelego Main Lode and the Caballero prospect are adjacent to broad chargeable highs, however there are no chargeability anomalies directly over either, in contrast to the strong PDIP chargeability anomaly that was defined previously at the Main Lode⁸ (see also **Figure 1**).

⁸ Refer ASX report 29 February 2024

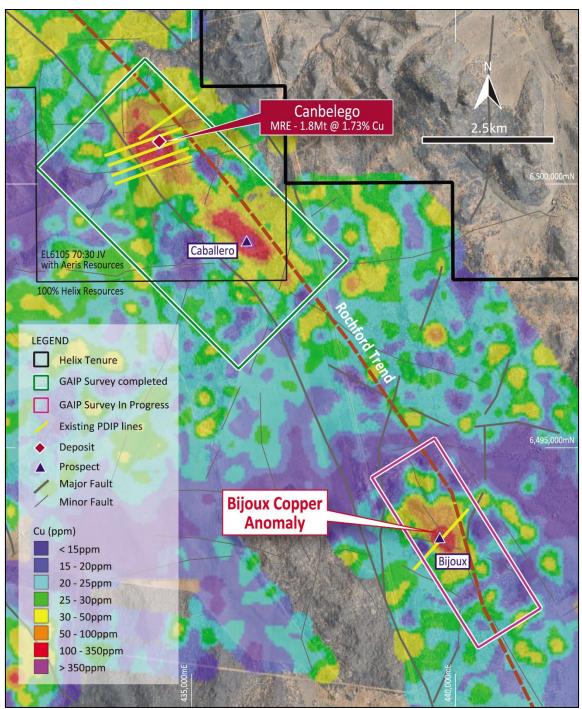


Figure 2 – Rochford Trend, Canbelego to Bijoux area showing copper geochemistry, structure and IP survey areas. (Refer Appendix A for Canbelego MRE details)

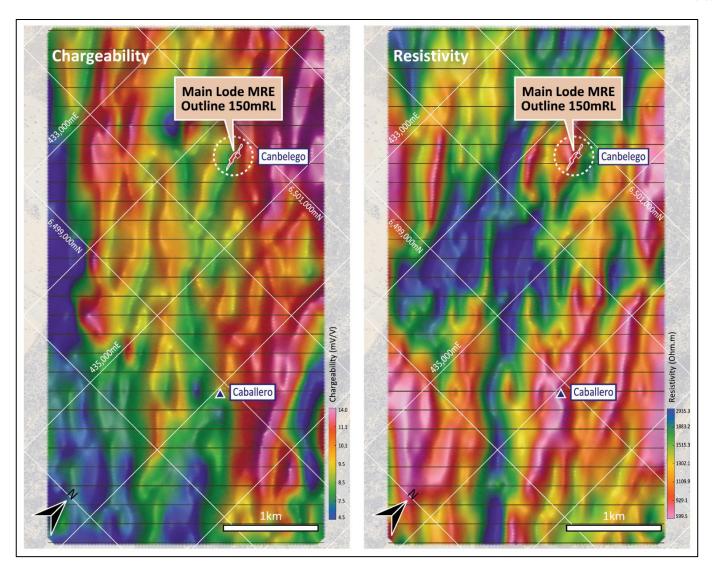


Figure 3 – Canbelego GAIP chargeability (left) and resistivity (right) results and outline of Canbelego Main Lode Mineral Resource Estimate⁹.

There is a clear difference between how the GAIP and PDIP techniques respond to sulphide conductors. The GAIP is not sensitive to narrow sub-vertical zones of sulphide mineralisation, with "narrow" meaning the width of the conductor relative to the electrode spacing. The electrode spacing for the GAIP survey was 100m and the Canbelego Main Lode has a maximum width of approximately 25m, which is perhaps too narrow for the electrode spacing used in the GAIP survey. In contrast, the PDIP array is highly sensitive to vertical features, which is why the Main Lode and potential sub-parallel lodes to the west form prominent PDIP chargeable anomalies (**Figure 1**).

However, the GAIP resistivity is clearly mapping conductive rocks with lower overall resistivity, which are expressed as the warmer colours in **Figure 4**. The NNW-trending Canbelego to Caballero corridor is bounded by narrow linear resistive units (cooler colours), interpreted to be faults, that enclose conductive units that host the Canbelego Main Lode and the Caballero copper prospect. These conductive units are also associated with anomalous copper geochemistry (**Figure 4**).

⁹ Refer Appendix A for MRE details)

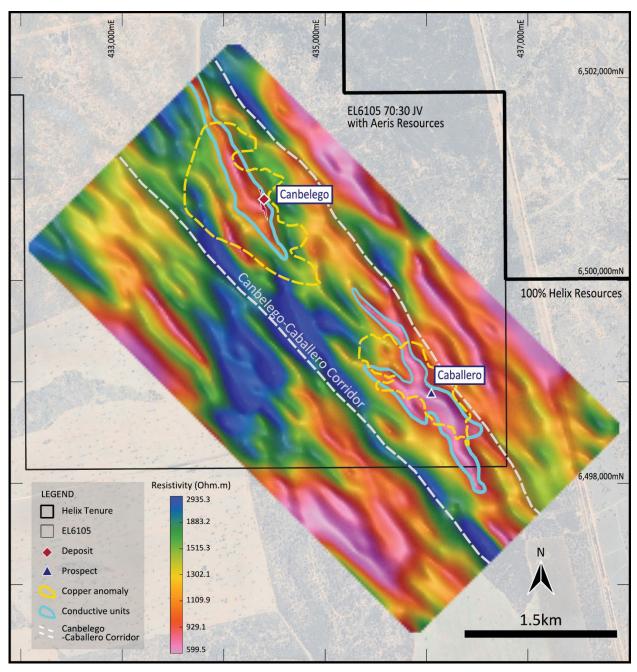


Figure 4 – Canbelego GAIP survey showing copper anomalies, conductive units and resistivity results.

The strike length of Canbelego Main Lode copper mineralisation is approximately 330m however it is associated with a conductive trend that is approximately 1.9km long. The Caballero copper prospect is associated with a conductive trend that is approximately 2.4km long. Significant portions of these conductive trends, in addition to the previously defined PDIP chargeable anomalies, are undrilled (**Figure 5**). The conductive units immediately east of Caballero are also undrilled. Follow-up PDIP lines are currently being surveyed to test these positions to define new drill targets.

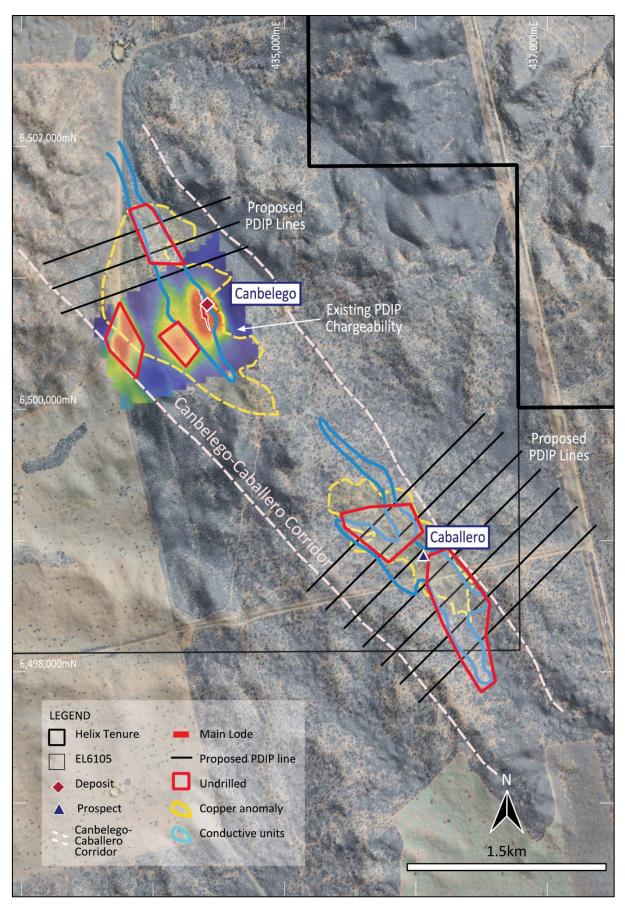


Figure 5– Canbelego-Caballero corridor showing conductive units, copper anomaly, proposed PDIP lines and undrilled areas.



Next Steps

Follow-up PDIP lines are currently in progress in the Canbelego-Caballero corridor and are expected to be completed in late-April. Data processing for the Bijoux GAIP survey is also in progress and is expected to be completed in mid-April, and follow-up PDIP lines will be planned after that.

Drilling of existing and new PDIP chargeable anomalies is planned to commence in mid-May.

COMPETENT PERSON STATEMENT

The information in this report that relates to exploration results, Mineral Resource estimates and geological data for the Cobar projects is based on information generated and compiled by Mr. Gordon Barnes and Dr. Kylie Prendergast who are both employees and shareholders of the Company. Mr. Barnes and Dr. Prendergast are Members of the Australian Institute of Geoscientists. They both have sufficient experience that is relevant to the styles of mineralisation and types of deposits under consideration and to the activities being undertaken to each qualify as Competent Person(s) as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Barnes and Dr. Prendergast have consented to the inclusion of this information in the form and context in which it appears in this report.

This ASX release was authorised by the Board of Directors of Helix Resources Ltd.



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About Helix Resources

Helix Resources is an ASX-listed resources company which is 'all-in on copper' exploration in the prolific copper producing region of Cobar, NSW.

The strategy is to generate new copper targets on its large, underexplored ground position and test them through drilling to make new discoveries.

The Company possesses a sizable ground position across three tenement groups which are largely untested despite being located within ~50km of significant copper producing operations. The western tenements consist of 30km of contiguous strike and the Company is advancing a pipeline of wholly owned copper opportunities, as well as the Canbelego JV Project (70% owned and operated by Helix and 30% owned by Aeris Resources) where a Mineral Resource of 32.8kt of contained copper has been estimated (refer Appendix A). The eastern tenement group encompasses more than 150km of prospective strike and includes the 100% owned high-grade CZ copper project.



Appendix A: Canbelego Main Lode Mineral Resource Estimate

A Mineral Resource estimate for the Canbelego Main Lode was completed by MEC Mining. This was the first update of the Canbelego resource since the 2010 resource estimate.

The 2023 updated Mineral Resource Estimate for the Canbelego Main Lode is presented in **Table 1** below.

MRE Category	Tonnes	Grade (Cu%)	Cu-Metal (t)
Total opencut MRE, ≥240mRL; 0.3 Cu% cut-off gr	ade & underground MRE, <	<240mRL; 0.8 Cu%	6 cut-off grade
Indicated	340,600	1.65	5,620
Inferred	1,493,700	1.75	26,140
Total: Opencut & Underground	1,830,000	1.74	31,842
Comprising:			
MRE Category	Tonnes	Grade (Cu%)	Cu-Metal (t)
Potential opencut MRE,	, ≥240mRL; 0.3 Cu% cut-off	grade	
Indicated	99,700	1.28	1,276
Inferred	282,300	1.21	3,416
Total: potential opencut MRE	377,000	1.23	4,637
Potential underground MI	RE, <240mRL; 0.8 Cu% cut-	off grade	
Indicated	240,900	1.81	4,360
Inferred	1,211,400	1.88	22,774
Total: potential underground MRE	1,453,000	1.87	27,171
* Numbers may not sum due to rounding			
* Numbers are rounded to reflect that they are est	timates		
* A top-cut grade of Cu 12% was applied to the MI	RE		
* Stated MRE complies with Reasonable prospects	of eventual economic extr	raction	

Table 1: 2023 Canbelego Main Lode Mineral Resource Estimate (MRE)

Helix Resources is not aware of any new information or data that materially affects the Mineral Resource Estimate announced on 14 June 2023.

ATTACHMENT 1: JORC Code Table 1

April 2024 – Canbelego orientation GAIP survey

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	 Nature and quality of sampling (e.g. cut channels, randomchips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sounds, 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 explanationmayberequired, 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. 	 IP Equipment Equipment used included a GDD TxIV 9kVA Transmitter and a GDD Rx32 16 channel IP Receiver. Receiving electrodes were standard non-polarising porous pots and transmitter electrodes were buried metal plates. PDIP Survey In a pole-dipole IP (PDIP) survey, electrodes are arranged in a triangular configuration consisting of a current electrode (pole), a potential electrode (dipole), and a remote electrode (another dipole). Measurements are taken by systematically moving the current and potential electrodes along a survey line while keeping the remote electrode fixed. Pole-dipole surveys are designed to provide deeper penetration and are typically used to investigate larger-scale subsurface features and structures. This method is suitable for identifying large chargeability and resistivity anomalies. The PDIP survey was completed by Fender Geophysics between 30 January and 8 February 2024. Survey lines were 1.5km long. A PDIP array was used for all lines, using 100m receiver dipoles. Each line had 16 x 100m receiver channels laid out along the entire 1.5km long line. The transmitter pole electrode was moved along the line at 100m stations. All receiver channels were read for every transmitter station resulting in forward and backward-looking pole-dipole data. The transmitt requency used was 0.125 Hz (2 seconds on-time, 2 seconds off-time). GAIP Survey In a gradient array IP (GAIP) survey, multiple electrodes are placed in a linear array with equal spacing between them. Measurements are typically taken by varying the separation between the source and receiver electrodes along the linear array. The focus is on measuring the gradient of the IP signal, which refers to the rate of change of the signal with distance. This allows for better detection of subtle variations

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Criteria	JORC Code explanation	Commentary
		 in the IP response. Line spacing: 200m Line length: 28 lines x 2900m RX dipoles: 100m Tx dipoles: 4900m Frequency: 0.125Hz The GAIP survey was conducted between 4 and 24 March 2024
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.). 	 No new drilling in this report.
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 samplebias may have occurred due to preferential loss/gain of fine/coarse material. 	 No new drilling in this report.
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. 	No new drilling in this report.

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Criteria	JORC Code explanation	Commentary
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 subsampling 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. 	No new drilling in this report.
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 (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. 	 Refer to Sampling Techniques above for survey specifications. Field QAQC was completed by Fender Geophysics staff. Post-survey, further QAQC and data processing was undertaken by Mitre Geophysics.
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. 	• No new drilling in this report.

Criteria	JORC Code explanation	Commentary
	• 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. 	 The transmitter and receiver sites were positioned using a Garmin GPS62 GPS (±5m accuracy). Grid system is MGA94 Zone 55. Surface RL data for sites is collected using GPS and rectified by high-resolution publicly available digital elevation data (ELVIS 5m data).
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. 	 The survey spacing is considered adequate for an orientation IP. No new drilling in this report.
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. 	The IP lines were oriented perpendicular to geological strike.
Sample security	• The measures taken to ensure sample security.	No new samples reported.
Audits or reviews	• The results of any audits or reviews of sampling techniques and data.	No additional audits or reviews have been conducted to date.

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, overridingroyalties, 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 Company has 20 Exploration Licenses (EL's) in the Cobar-Nyngan region of NSW held by its 100% subsidiary company, Oxley Exploration Pty Ltd. 19 are held 100% by Oxley Exploration Pty Ltd, a wholly owned subsidiary of Helix Resources: EL6140, EL6501, EL6739, EL7438, EL7439, EL7432, EL8433, EL8608, EL8633, EL8710, EL8768, EL8845, EL8948, EL8703, EL9345, EL9385, EL9386, EL9387, EL9581. EL6105 is a joint venture with Aeris Resources Ltd (30% participating interest) and Oxley Resources Pty Ltd (70% participating interest and Manager). Native Title Claim NC2012/001 has been lodged by NTSCORP Ltd on behalf of the Ngemba, Ngiyampaa, Wangaaypuwan and Wayilwan traditional owners in the Cobar-Nyngan region which covers the Oxley Exploration Pty Ltd tenement portfolio. All tenements are in good standing and there are no known impediments to operating in this area.
Exploration done by other parties	 Acknowledgment and appraisal of exploration by other parties. 	 All tenements have been the subject of previous exploration by numerous companies. Previous exploration data has been compiled, reviewed and assessed for all tenements held by the Company.
Geology	• Deposit type, geological setting and style of mineralisation.	• The tenements are prospective for structurally controlled base metal and gold deposits.
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 	• No new drilling in this report.

Criteria	JORC Code explanation	Commentary
	Person should clearly explain why this is thecase.	
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. 	No new assay results in this report.
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 (e.g. 'down hole length, true width not known'). 	 No new drilling in this 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 to Figures in this 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.	• The reporting is balanced, and all material information has been disclosed.
Further work	 The nature and scale of planned further work (e.g. 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. 	 A GAIP survey is currently in progress at the Bijoux copper prospect. Follow-up with PDIP surveys over defined anomalies will provide a depth constraint. Further auger sampling is in progress in the broader area. Confirmed geophysical and geochemical anomalies will be followed-up with initial RC drilling.