

ADDRESS

Level 2, 22 Mount Street Perth WA 6000 **PHONE** +61 (08) 6188 8181 ABN

80 647 829 749

WEBSITE

www.lycaonresources.com

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Nickel Copper Diamond Drilling Commenced at Bow River

Highlights:

- Bow River high impact drilling program commenced targeting another 'Savannah North' discovery
- Drilling to test large gravity anomaly defined in geophysical surveys that remain untested at depth located down plunge from historical high-grade nickel and copper mineralisation
- Downhole electromagnetic surveys to be completed post drilling to define if conductors are present that may be related to massive sulphide nickel-copper mineralisation

Mr Thomas Langley, Technical Director commented, "We have now begun a high impact diamond drill program which will be critically important to understanding if a large-scale nickel copper sulphide deposit exists at Bow River. The drilling is targeting another Savannah North type discovery which opened up the prospectivity of the Kimberley after its recent discovery in 2014. No drilling at Bow River has occurred since this time and given the high-grade nickel and copper intersected in historical drilling in the past, we are of the view that Bow River presents as one of the best magmatic nickel-copper targets in Western Australia currently."

"The Marlarngowem traditional owners of Bow River were instrumental in completing the heritage surveys and I thank them for their help and cooperation."

Lycaon Resources Ltd (ASX:LYN) (**Lycaon** or the **Company**) is pleased to announce drilling has commenced at Bow River (**Bow River**) in the East Kimberley region of Western. Diamond drilling is scheduled to take approximately 4 weeks consisting of two diamond drillholes to a depth of 800m each. The prospective target zone that corresponds to the gravity anomaly is anticipated to be intersected between 350m to 750m depth.



Figure 1. Diamond drilling commencing at BRDD001, Bow River nickel copper project in the Kimberley.

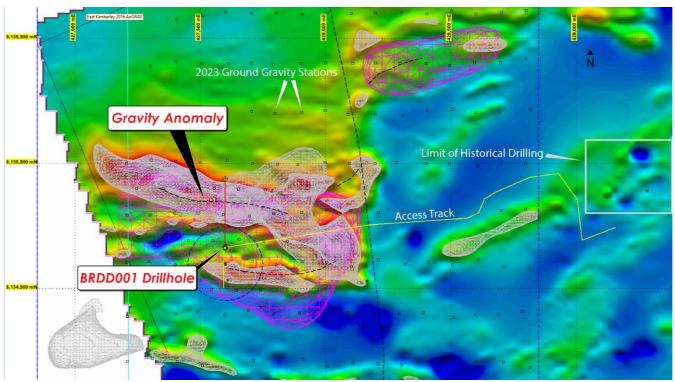


Figure 2. Drillhole BRDD001 (Azimuth 0 degrees) planned to intersect the gravity anomaly, between upper contact at 350m and 750m basal contact.

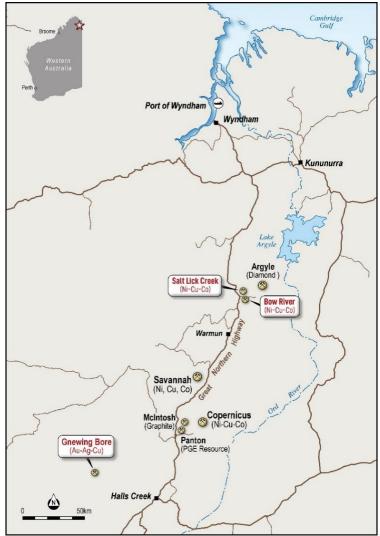


Figure 3. Location of Bow River and Salt Lick nickel copper sulphide projects and Gnewing Bore gold-silver project.

Bow River Prospect (Ni/Cu/Co±PGE)

The Bow River Project is located within the Halls Creek Orogen in the East Kimberley region of Western Australia, Figure 3.

The Project area covers two known nickel-copper-cobalt sulphide prospects mapped as the Salt Lick Creek intrusion and the Bow River intrusion. Both intrusives are sulphide-bearing and similar in style and setting to Panoramic Resources' Savannah mine, located approximately 60 kilometres further south. The relatively recent discovery (2014) of the Savannah North resource at depth adjoining the existing mine effectively quadrupled the Ni-Cu-Co resource, highlighting the prospectivity of E80/4955 given its analogous geological setting. Previous drilling is limited to a very small area of the Bow River mafic intrusive, Figure 2, 4.

Outcropping gossans and anomalous soil geochemistry has been mapped at surface over an area of 900m x 300m. The surface expression of the intrusion has received most of the focus of historical exploration however, the broader intrusive undercover and at depth has received little attention. In addition, exploration using more powerful modern day geophysical techniques such as ground gravity surveys to detect density anomalies deeper below surface has only been completed for the first time by Lycaon.

The proposed drill program at Bow River will be critical in demonstrating the potential for a major Ni-Cu-Co resource in the Kimberley analogous to Panoramic's Savannah nickel mine 60km south. Drilling is planned to target beneath the current extent of historical drilling, targeting the deeper

more primitive part of the intrusion. The historical gravity Falcon data and recent ground gravity data has now been modelled by Southern Geoscience Consultants (SGC) as a 3D inversion to better quantify the magnitude of the gravity anomaly, location at depth and size. This work has allowed for a higher geological confidence in assisting drill planning ahead of drilling in Q3, 2023.

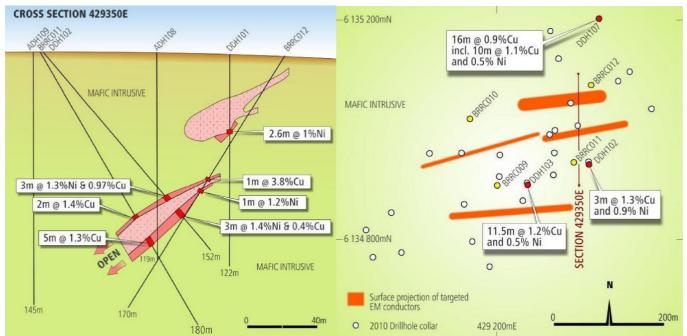


Figure 4. Location of historical drilling at Bow River nickel copper sulphide project.

- ENDS -

This announcement has been authorised for release by the Directors of the Company.

Thomas Langley - Technical Director

For additional information please visit our website at www.lycaonresources.com

Competent Person's Statement

The information in this document that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr. Thomas Langley who is a member of the Australian Institute of Geoscientists (MAIG) and a member of the Australasian Institute of Mining and Metallurgy (MAusIMM). Mr. Thomas Langley is a full-time employee of Lycaon Resources Limited, and is a shareholder, however Mr. Thomas Langley believes this shareholding does not create a conflict of interest, and Mr. Langley has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity 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. Langley consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information in the original reports, and that the forma and context in which the Competent Person's findings are presented have not been materially modified from the original reports.

Appendix 1. Historical Drilling Results from the Bow River Project

Hole ID	Hole Type	Easting	Northing	Dip / Azi	From	Length	Intersection
BRRC001	RC	429200	8135700	-60 / 180			
BRRC002	RC	429200	8134850	-60 / 000	84	12	0.45% Cu+0.12% Ni
					84	4	0.77% Cu, 0.12% Ni
BRRC003	RC	429200	8134800	-60 / 000	116	8	0.26% Cu+0.37% Ni
BRRC004	RC	429100	8134750	-60 / 180	73	2	1.43% Cu
BRRC005	RC	429100	8134800	-60 / 180			
BRRC006	RC	428000	8134050	-60 / 180			
BRRC007	RC	429200	8134750	-60 / 000	157	1	1.21% Ni+ 0.11% Co
BRRC008	RC	429000	8134800	-60 / 180			
BRRC009	RC	429200	8134900	-60 / 180			
BRRC010	RC	429150	8135020	-60 / 180			
BRRC011	RC	429340	8134940	-60 / 000	108	2	1.4% C∪
					123	5	1.3% Cu
BRRC012	RC	429370	8135080	-60 / 180	81	1	3.8% Cu
					88	1	1.2% Ni
DDH101	DD	429350	8134500	-90 / 000		2.6	1% Ni
DDH102	DD	429360	8134940	-45 / 000		3	1.3% Ni + 0.97%Cu
						3	1.4% Ni + 0.4%C∪
DDH107	DD	429375	8135200	-90 / 000		10	1.1% Cu + 0.5%Ni

Appendix 2. JORC Code, 2012 Edition – Table 1 report template

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	Re-reporting of historical drilling data. Cored and percussion drilling completed. Methodology detailed in WAMEX reports;
	minerals under investigation, such as down hole gamma sondes, or	A9748 Australian Anglo American Prospecting Pty Ltd;
	handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.	A65634 Southdale Holdings Pty Ltd; A87523 Jindalee Resources Pty Ltd; A97478 Thundelarra Exploration Ltd; A128314 East Kimberley resources Pty Ltd.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Atlas Ground Gravity Survey 100m spacing Scintrex CG6 gravity meter
	Aspects of the determination of mineralisation that are Material to the Public Report.	Gravity Falcon™ Survey
	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	Fugro Airborne Surveys Pty Ltd 2 FALCON TM Airborne Gravity Gradiometer, Magnetic Survey – Kimberley, Western Australia, Job 2078 - Multiclient Survey Data
	which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be	The survey was based out of Halls Creek, Western Australia. The survey aircraft was operated from the

Criteria	JORC Code explanation	Commentary
	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.	Halls Creek Airport. The GPS base system was comprised of a GPS receiver, a logging computer, an antenna and a power supply. Data was logged and displayed in real time on the logging computer screen. The logged base data was processed with the airborne GPS data to calculate the differentially post-processed position of the aircraft.
		Total kilometres (km): 11,679 (AGG); 11,801 (Mag) Terrain Clearance: (m) 80 Clearance Method: Drape Traverse Line Direction (deg.): 115 / 295 Traverse Line Spacing (m): 500 Tie Line Direction (deg.): 025 / 205 Tie Line Spacing (m): 5000
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, facesampling bit or other type, whether core is oriented and if so, by what method, etc).	Cored and reverse circulation drilling.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	Re-reporting of historical drilling data. No comments on recovery in reports.
	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.	
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. 	Re-reporting of historical drilling data. Geological logging of RC drilling has been completed to an acceptable standard.
	The total length and percentage of the relevant intersections logged.	
Sub-	If core, whether cut or sawn and whether quarter, half or all core taken.	Re-reporting of historical drilling data.
sampling techniques and sample preparation	 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 	No details of sub sampling techniques or sample preparation for cored drilling. For BRRC001 – 008 both four metre composite samples and one metre riffle split samples were collected. For BRRC009 – 012 single metre rotary split samples
	preparation technique.Quality control procedures adopted for all sub-sampling stages to maximise	were collected but only selected samples were submitted for analysis.

Criteria	JORC Code explanation	Commentary
Quality of assay data and laboratory tests	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 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.	Re-reporting of historical drilling data. No details of analytical techniques or QA/QC procedures for cored drilling. For BRRC001 – 008 both four metre composite samples were sent to Amdel, Perth for base metal analysis by IC2E.and one metre riffle split samples were sent to ALS Perth and analysed for Ni, Cu, Co by AA62 and Au, Pt, Pd by PGM-MS24. For BRRC009 – 012 single metre rotary split samples were collected but only selected samples were submitted for analysis. Gravity Falcon™ Survey The following parameters were recorded during the course of the survey: • FALCONTM AGG data: recorded at different intervals; • Airborne total magnetic field: recorded with a 0.1s sampling rate; • Aircraft altitude: measured by the barometric altimeter at intervals of 0.1; • Terrain clearance: provided by the radar altimeter at intervals of 0.1; • Airborne GPS positional data (latitude, longitude, height, time and raw range from each satellite being tracked): recorded at intervals of 1s; • Time markers: in digital data; • Ground total magnetic field: recorded with a 1s sampling rate; • Ground based GPS positional data (latitude, longitude, height, time and raw range from each satellite being tracked): recorded at intervals of 1s;
		position: measured by the laser scanner system at intervals of 0.05s;
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) 	Re-reporting of historical drilling data Gravity Falcon™ Survey During the survey, problems were encountered with the AGG instrument as a result of a partial system malfunction. As a result, several lines were rejected as being in excess of noise specifications and operational procedures were changed to ensure

Criteria	JORC Code explanation	Commentary
	protocols. • Discuss any adjustment to assay data.	data collected were of the required standard. For some lines, only B complement data were used in processing as A complement data were deemed to be in error. Studies of one line flown twice (once with both complements working nominally, once with B complement only) were used to provide confidence in this procedure. Analysis of this repeat line has been provided separately. The mean turbulence was low to moderate across the survey area. Although the system was unusually sensitive to turbulence, the levels evident in final accepted data have been shown to have minimal effect on the measured gravity components. This was further evidenced when the profiles were examined line by line.
Location of data points	 Accuracy and quality of surveys used to locate drill holes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	Re-reporting of historical drilling data GDA94 MGA Z52.
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. 	Re-reporting of historical drilling data Gravity Falcon™ Survey Traverse Line Direction (deg.): 115 / 295 Traverse Line Spacing (m): 500 Tie Line Direction (deg.): 025 / 205 Tie Line Spacing (m): 5000
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. 	Re-reporting of historical drilling data Gravity Falcon™ Survey Traverse Line Direction (deg.): 115 / 295 Traverse Line Spacing (m): 500 Tie Line Direction (deg.): 025 / 205 Tie Line Spacing (m): 5000 The gravity lines were orientated 025 / 205 in order to cross known regional structural trends that range from north easterly to north-north easterly. Interpretation of the gravity data appears to confirm known regional structural directions.
Sample security	The measures taken to ensure sample security.	Re-reporting of historical drilling data Gravity Falcon TM Survey Fugro Airborne Surveys Pty Ltd, who collected the gravity data, are very experienced and reputable contractors who specialise in gravity surveys. Fugro are used by many large companies and have a sound reputation of delivering high quality, accurate and properly corrected gravity data.

Criteria	JORC Code explanation	Commentary
		Southern Geoscience Consultants re-processed the Fugro Gravity Falcon TM Survey data are considered expert geophysical consultants based in West Perth, Western Australia.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No audits have been completed.

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	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 Bow River and Salt Lick Projects are located on one (1) granted Exploration Licence E80/4955 covering approximately 25.6km²
tenure status		Lycaon has entered into a binding sale agreement with East Kimberley Resources Pty to acquire a 100% interest in the tenements.
		The tenements will be owned 100% by Lycaon Resources Limited
		A Royalty Deed exists for 1% payable to East Kimberley Resources Pty and Uramin Pty Ltd in respect of all saleable minerals, concentrates, metals produced.
		The Project is overlain by the Malarngowem (WC 1999/044 and WAD43/2019) Native Title Claim
		East Kimberley Resources Pty executed a Heritage Agreement with Kimberley Land Council Aboriginal Corporation in July 2016.
		The Heritage Agreement allows Lycaon access to the project area provided relevant protocols are observed to preserve Aboriginal heritage.
		The tenements are in good standing and no known impediments exist.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	The area comprising the Bow River and Salt Lick Project have been explored for a variety of commodities over a protracted period. Previous exploration activities within the project area commenced in the 1960's with Pickand Mather exploring base metals. Airborne magnetic and electromagnetic surveys were completed in 2002, to assess the effectiveness of previous drilling and to define new drill targets. The airborne EM survey outlined a strongly conductive zone coincident with the soil geochemical anomaly. Follow up of the airborne survey anomalies with a ground-based EM system led to the recognition of six discrete conductors, several of which had not been tested by previous drilling.
		Drilling of electromagnetic conductor targets intersected broad zones of low-grade nickel mineralisation in disseminated to massive sulphides up to 20m thick.
		The combined results of historical work completed to date provides Lycaon with a compelling prospect to discover primary nickel copper sulphides at depth within the two layered mafic

Criteria	JORC Code explanation	Commentary
		intrusions within E80/4955. Lycaon intends to follow on from this prior work that identified high grade nickel, copper, cobalt (±PGE's) mineralisation with high powered electromagnetic surveys prior to drilling.
Geology	Deposit type, geological setting and style of mineralisation.	The Bow River and Salt Lick Project area is underlain by early Proterozoic metamorphic and igneous rocks of the Halls Creek Mobile Zone (HCMZ). This composite orogenic belt comprises three tectonostratigraphic terranes (Western, Central and Eastern Zones) bounded by northeast trending strike-slip faults (Griffin and Grey, 1990). The Central Zone is dominated by the Tickalara Metamorphics, a regionally metamorphosed
		assemblage of mafic volcanics and sediments. These are intruded by several generations of felsic and layered mafic to ultramafic intrusions, which are also deformed and metamorphosed to varying degrees.
		The Central Zone hosts the majority of the Ni-Cu-Co deposits known in the east Kimberley, including Bow River.
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:	Re-reporting of historical drilling data
	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.	
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.	Re-reporting of historical drilling data
	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.	

Criteria	JORC Code explanation	Commentary
Relationship between mineralisatio n 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	Re-reporting of historical drilling data
Diagrams	hole length, true width not known'). 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.	Appropriate maps and sections are provided in the text
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 accompanying document is a balanced report with a suitable cautionary note.
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.	Historical exploration activity over the Bow River and Salt Lick project areas have included airborne electromagnetic and magnetics surveys, surface geochemical sampling, RC and Diamond drilling also completed within the project area. Data is being systematically compiled and reviewed to aid in current exploration programmes.
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.	Additional geophysical surveys and geological mapping may be carried out in the future in order to assist in the delineation of drilling targets.