

Premium Nickel Reports Assays and Extension of Historic Resource at Selebi North Underground

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- CEO, Keith Morrison

Toronto, Ontario--(Newsfile Corp. - December 19, 2023) - **Premium Nickel Resources Ltd. (TSXV: PNRL) (OTCQX: PNRLF) ("PNRL" or the "Company")** is pleased to report additional assay results from drilling at its past-producing nickel-copper-cobalt sulphide ("**Ni-Cu-Co**") Selebi North underground ("**SNUG**") mine in Botswana. Results have been previously released for 12 holes (see news releases dated November 14, 2023 and November 27, 2023) and results for a further four holes are released herein. Details of the assay results are shown below along with accompanying visuals via [Figure 1](#), [Figure 2](#), [Figure 3](#). Drill core photos for recent holes drilled with assays pending that are not included in the four holes reported herein are accessible by [Clicking Here](#). All drill core photos released to date can be found on the website at <https://premiumnickelresources.com>. Additional assays, including those for SNUG-23-056, 057, 058, 064 and 067, will be disclosed in the new year following a review and confirmation protocol by the Company.

Highlights include:

- **SNUG-23-017 intersected N2 mineralization 180 metres down-plunge of historic resource**
- **SNUG-23-035 intersected South Limb mineralization 130 metres along strike from historic resource, correlates with borehole electromagnetic ("BHEM") model**
- **SNUG-23-036 (N2 Limb): 10.45 metres of 1.45% NiEq (0.48% Ni; 1.82% Cu; 0.02% Co)**
 - including 4.15 metres of 2.54% NiEq (0.48% Ni; 3.97% Cu; 0.02% Co)
- **SNUG-23-037 (N2 Limb): 6.00 metres of 1.41% NiEq (0.60% Ni; 1.41% Cu; 0.03% Co)**
 - including 2.15 metres of 2.08% NiEq (0.27% Ni; 3.50% Cu; 0.01% Co)

Keith Morrison, CEO of PNRL, commented: *"Our underground drilling at Selebi North continues targeting the historic resource and both down plunge and down dip extensions. Most recently, drillhole SNUG-23-017, while being extended to be used as an underground BHEM platform, intersected N2 Limb mineralization 180 metres down-plunge of the wire frame of the historic resource. This intersection confirms that mineralization continues to depth beyond the bottom of the legacy resource, reinforcing our theory that the Selebi and Selebi North deposits are connected at depth and are much bigger than previously understood. Furthermore, a second hole targeted along strike of the South Limb intersected mineralization correlating to modeled BHEM plates demonstrating the effectiveness of using BHEM to outline mineralization beyond the known extents."*

The objective of these holes is to define mineralization down plunge of the existing workings that will be used to complete a Mineral Resource Estimation ("**MRE**") prepared in accordance with National Instrument 43-101 - *Standards of Disclosure for Mineral Projects* ("**NI 43-101**"). Assay results are given below in Table 1 and hole collar details are given in Table 2. Figures 1 and 2 show the location of holes

relative to the historic resource and underground infrastructure.

Table 1: Assay Results Selebi North Deposit

Hole-ID	From (m)	To (m)	*Length (m)	Ni (%)	Cu (%)	Co (%)	Limb	**NiEq (%)
SNUG-23-027	112.65	114.25	1.60	1.25	0.80	0.06	N2	1.78
SNUG-23-033	43.40	50.30	6.90	0.79	0.33	0.04	N2	1.03
Including	43.40	45.30	1.90	1.50	0.22	0.05	N2	1.71
and	48.30	50.30	2.00	0.87	0.43	0.06	N2	1.19
SNUG-23-033	168.40	169.95	1.55	1.80	0.64	0.08	N3	2.28
SNUG-23-033	333.40	335.40	2.00	1.71	0.08	0.06	N3	1.86
SNUG-23-036	148.00	158.45	10.45	0.48	1.82	0.02	N2	1.45
Including	149.00	153.15	4.15	0.48	3.97	0.02	N2	2.54
SNUG-23-036	405.70	407.00	1.30	2.37	2.27	0.10	N3	3.72
SNUG-23-037	34.25	40.25	6.00	0.60	1.49	0.03	N2	1.41
Including	34.25	36.40	2.15	0.27	3.50	0.01	N2	2.08
SNUG-23-037	182.80	185.10	2.30	0.34	1.74	0.02	N3	1.27
SNUG-23-037	228.75	232.20	3.45	0.52	1.45	0.07	N3	1.39

*Length refers to drillhole length and not true width. True width is unknown.

**NEq was calculated assuming a price of \$US 7.39/lb for Ni, \$US 3.77/lb for Cu and \$US 13.86/lb for cobalt with no adjustments for recoveries and payabilities.

Table 2: Drill Collar Information Selebi North Deposit

HOLE ID	Mine East	Mine North	Elevation	Dip	Mine Azimuth	Hole Length	Comment
SNUG-23-027	34919.6	84906.8	-8.9	-28.02	214.59	314.6	Rig #3 895mL
SNUG-23-033	34920.0	84906.2	-9.4	-32.65	204.56	370.5	Rig #3 895mL
SNUG-23-036	35081.6	84843.4	-9.0	-21.59	259.66	443.4	Rig #2 880mL
SNUG-23-037	34919.8	84906.5	-8.8	-24.13	202.85	278.2	Rig #3 895mL

The various mineralized zones have been historically mined and subsequently named N2 Limb, N3 Limb and South Limb to demarcate their location on the folded mineralized horizon. Additional drilling is needed to estimate true width and define the folded mineralization.

Noteworthy are two mineralized intercepts outside of the historic resource.

SNUG-23-017 was recently extended to be used as a BHEM platform. The hole intersected a 16.2 metre interval of mineralization that closely correlates with the interpreted down plunge extent of N2 mineralization. This intercept occurs approximately 180 metres down plunge/105 metres vertically below the bottom of the historic resource. Core photos from this hole can be viewed by [Clicking Here](#).

SNUG-23-035 intersected 10.8 metres of mineralization interpreted to represent the strike extent of the South Limb approximately 130 metres from the historic BCL wireframed envelope. This intercept correlates with the modeled BHEM plates in this area. Core photos from this hole can be viewed by [Clicking Here](#).

Drilling Continues

As of December 15, 2023, a total of 18,120 metres in 50 drillholes have been completed from the initial three underground drill bays. During this initial phase, drilling is targeting the area down plunge of mine infrastructure to characterize the remaining resource. Concurrently, step-out drilling will occur further down plunge with the aim to demonstrate upside potential which will support a future MRE. Assay results for completed holes will be released as they are received and confirmed by the Company.

In January 2024, two drills will be mobilized to the 810 metre level exploration drift, permitting testing areas further down plunge of the three mineralized zones with the aim to demonstrate upside potential that will support a future MRE.

Quality Control

The underground drilling program is being carried out through an agreement with Forage Fusion Drilling Ltd. of Hawkesbury, Ontario, Canada, who have provided three Zinex U-5 drills for purchase and training of local operators. Drill core samples are BQTK (40.7 mm diameter). All samples are ½ core cut by a diamond saw on site. Half of the core is retained for reference purposes. Samples are generally 1.0 to 1.5 metre intervals or less at the discretion of the site geologists. Sample preparation and lab analysis was completed at the ALS Chemex in Johannesburg, South Africa. Commercially prepared blank samples and certified Cu/Ni sulphide analytical control standards with a range of grades are inserted in every batch of 20 samples or a minimum of one set per sample batch. Analyses for Ni, Cu and Co are completed using a peroxide fusion preparation and ICP-AES finish (ME-ICP81).

Holes are numbered as follows: SNUG (Selebi North Underground) + year + hole number starting at 013.

Qualified Person

The scientific and technical content of this news release has been reviewed and approved by Sharon Taylor, Vice President Exploration of the Company, who is a "qualified person" for the purposes of NI 43-101.

Technical Report

Scientific and technical information relating to the Selebi Mine is supported by the technical report titled "*Technical Report on the Selebi Mines, Central District, Republic of Botswana, Report for NI 43-101*", dated June 16, 2022 (effective date of March 1, 2022) (the "**Selebi Technical Report**"), and prepared by SLR Consulting (Canada) Ltd. for PNRL. Reference should be made to the full text of the Selebi Technical Report, including the assumptions, limitations and data verification therein relating to the historic data compilation presented in this news release, which was prepared in accordance with NI 43-101 and is available electronically on SEDAR+ (www.sedarplus.ca) under PNRL's issuer profile.

Historic Resource Estimate

The historical mineral resource estimate referenced herein (the "**Historic Resource**") was calculated for the Selebi North, Selebi Main, Phikwe South and Southeast Extension deposits in accordance with SAMREC, in 2016, and does not comply with NI 43-101. To that end, the Historic Resource is considered to be historical in nature and should not be relied upon as a current mineral resource estimate. While management believes that the Historic Resource could be indicative of the presence of mineralization on the deposits, a qualified person for purposes of NI 43-101 has not completed sufficient work to classify the historical mineral estimates as current mineral resource estimates and PNRL is not treating the historical mineral estimates as current mineral resource estimates.

About Premium Nickel Resources Ltd.

PNRL is a mineral exploration and development company that is focused on the redevelopment of the previously producing nickel, copper and cobalt resources mines owned by the Company in the Republic of Botswana. We are driven by our belief that the demand for these metals will continue to grow in the

medium to long term, as a result of global urbanization and the increasing adoption of electric motors over internal combustion engines. These metals are vital for achieving a low-carbon future.

PNRL is committed to governance through transparent accountability and open communication within our team and our stakeholders. Our skilled team has worked over 100 projects collectively, accumulating over 400 years of resource discoveries, mine development and mine re-engineering experience on projects like the Company's Selebi and Selkirk mines. PNRL's senior team members have on average more than 20 years of experience in every single aspect of mine discovery and development, from geology to operations.

ON BEHALF OF THE BOARD OF DIRECTORS

Keith Morrison
Chairman and Chief Executive Officer
Premium Nickel Resources Ltd.

For further information about Premium Nickel Resources Ltd., please contact:

Jaclyn Ruptash
Vice President, Communications and Government and Investor Relations
+1 (604) 770-4334

Cautionary Note Regarding Forward-Looking Statements:

This news release contains "forward-looking information" within the meaning of applicable Canadian securities legislation based on expectations, estimates and projections as at the date of this news release. Forward-looking information involves risks, uncertainties and other factors that could cause actual events, results, performance, prospects and opportunities to differ materially from those expressed or implied by such forward-looking information. Forward-looking information in this news release includes, but is not limited to: the ability of the Company to implement its drilling, geoscience and metallurgical work on its properties and work plans generally; the implementation of the objectives, goals and future plans of the Company including the proposed advancement of the Selebi Mines as currently contemplated; the ability of exploration activities (including drill results) to accurately predict mineralization; management's belief that the Selebi and Selebi North deposits may be connected at depth; the timing to release the remaining assay results; the ability of the Company to implement its drilling, geoscience and metallurgical work on its properties and work plans generally; the implementation of the objectives, goals and future plans of the Company including the proposed advancement of the Selebi Mines as currently contemplated; the ability of the Company to define mineral resource estimates on the Selebi Mines in accordance with NI 43-101 and/or obtain an updated MRE in respect of the Selebi Mines; the productivity rates for underground drilling at Selebi North; drilling results confirming the legacy fold pattern continues at depth; the effective targeting activities proposed by the Company; the ability to identify mineralization down plunge of existing workings and the ability of such findings to be used to complete a MRE; the ability and timing of advancing the underground drilling program at Selebi North as contemplated (if at all); the results of the drill program on Selebi North and the timing and disclosures of the Company regarding same; the relationships between, and continuity of, the various deposits (if any); the benefits of the Company's approach to exploration; management's belief that the Historic Resource could be indicative of the presence of mineralization on the deposits; and the anticipated benefits of the Company's approach to the resource development plan. These forward-looking statements, by their nature, require the Company to make certain assumptions and necessarily involve known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied in these forward-looking statements. Factors that could cause actual results to differ materially from such forward-looking information include, but are not limited to, capital and operating costs varying significantly from estimates; the preliminary nature of metallurgical test results; the ability of exploration results to predict mineralization or the feasibility of mine production; delays in obtaining or failures to obtain required governmental, environmental or other project approvals; uncertainties relating to the availability and costs of financing needed in the future; changes in equity

markets; inflation; fluctuations in commodity prices; delays in the development of projects; the other risks involved in the mineral exploration and development industry; and those risks set out in the Company's public disclosure record on SEDAR+ (www.sedarplus.ca) under PNRL's issuer profile. Although the Company believes that the assumptions and factors used in preparing the forward-looking information in this news release are reasonable, undue reliance should not be placed on such information, which only applies as of the date of this news release, and no assurance can be given that such events will occur in the disclosed time frames or at all. The Company disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required by law.

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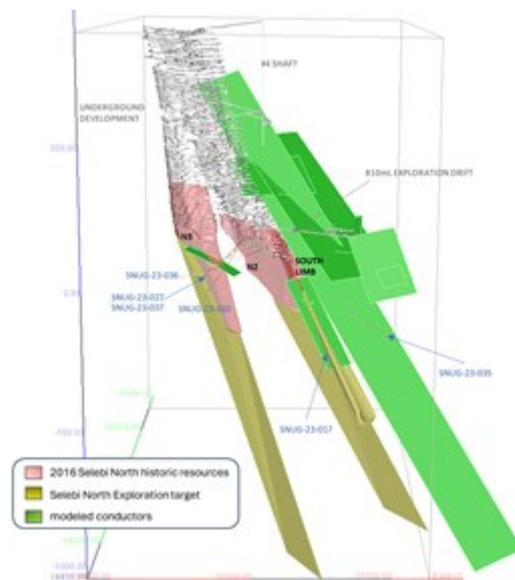


Figure 1: Selebi North: Location of Reported Drill Holes with Underground Infrastructure, Historic Resources and Exploration Targets

To view an enhanced version of this graphic, please visit:

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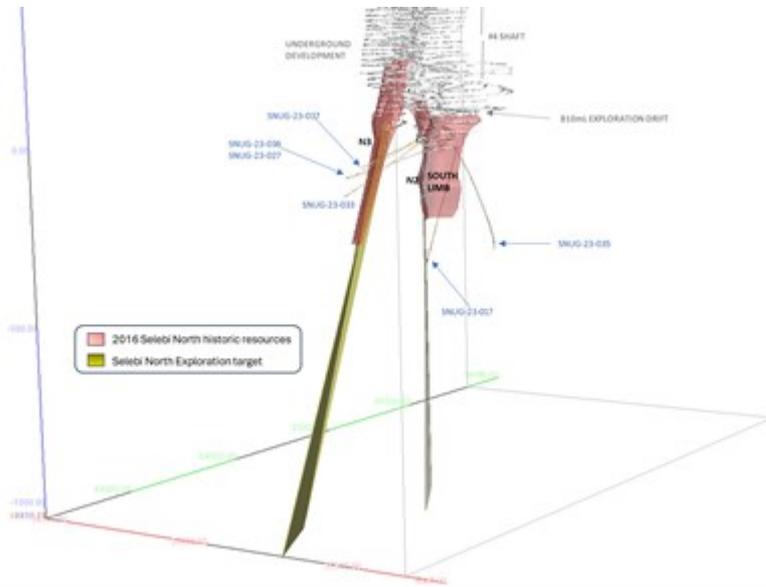


Figure 2: Selebi North Drill Hole Location

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Figure 3. Selebi North UG Core Photos for New Holes Drilled N2 Limb and South Limb_Assays Pending

SNUG-23 -017 (Assays Pending)

[CLICK HERE FOR FULL INTERSECTION](#)

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Figure 3. Selebi North UG Core Photos for New Holes Drilled N2 Limb and South Limb_Assays Pending

SNUG-23 -035 (Assays Pending)

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