Graphano Reports 8.61 Metres Grading 11.33% Cg from Drilling Program at the Black Pearl Graphite Project

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Vancouver, October 7, 2025 - Graphano Energy Ltd. (TSXV: GEL) (OTC Pink: GELEF) (FSE: 97G0) ("Graphano" or the "Company") is pleased to report initial assay results from the September 2025 drilling program at its 100% owned Black Pearl graphite project ("Black Pearl"). The drill program encountered significant mineralization located near to surface as outlined below and has confirmed this favourable geologic setting is similar to the major graphite deposits of the Lac des Iles region of Quebec.

Black Pearl is a large property consisting of 84 claims covering 4,149 hectares which is unexplored outside the current area of drilling. Graphano plans to complete an airborne geophysical survey of the property to identify additional new targets/trends, as well as extensions to the discovery area. The Black Pearl claims are located immediately east of Graphano's advanced-staged Standard Mine project (Figure 1).

Luisa Moreno, Chief Executive Officer of the Company, stated: "These initial drill results validate our exploration model and confirm the presence of strong graphite mineralization at Black Pearl. The grades and near-surface continuity are very encouraging, and we are confident this project has the potential to become a significant addition to Graphano's portfolio of graphite assets in Quebec."

This first ever drill program at Black Pearl was designed to test several of the multiple conductive trends identified during recent ground geophysical programs, with the objectives of expanding the known graphite mineralization, enhance the structural understanding, and to broadly evaluate the deposit's larger scale potential.

Key Highlights (See Full Results in Table 1)

- Black Pearl was discovered by prospecting with subsequent trenching, channel sampling and limited ground electromagnetic (EM) geophysical surveys.
- 42 channel samples collected within an approximate 1,200 m^2 stripped bedrock area averaged 13.2% graphitic carbon (Cg). Surface channel sample results include 15.1% Cg over 14 metres (m) and 17.9% Cg over 9 m.

Current Holes

- Drill Hole BP25-01 intersected 11.33% graphitic carbon (Cg) over 8.61 metres (m) starting at 18.64 m drilled depth;
- Drill Hole ST25-02 intersected two zones of 4.53% Cg over 5.50 m at 20.50 m, and 7.95% Cg over 3.75 m at 31.90 m; and
- Drill Hole ST25-03 intersected three zones of 7.37% Cg over 4.70 m at 12.00 m, 7.01% Cg over 3.14 m at 38.86 m, and 4.77% Cg over 6.50m at 44.50 m;

(Note: All intersections reported are based on drilled width and have not been converted to the true width. True widths are not currently known.)

Three of the five drill holes reported in this update (Holes BP25-01, 02 and 03) were drilled on L0N. Holes

BP25-01 and 02 tested the down dip extent of mineralization in the stripped bedrock area, located along the western conductive trend. Hole BP25-03. collared ~ 130 m east, was drilled to evaluate the eastern conductive trend. The holes encountered multiple, southeasterly dipping mineralized zones ranging from 0.5 m to 8.6 m in drilled thickness. The mineralization has been traced from surface to a vertical depth of approximately 35 m and remains open for continued expansion at depth. Hole BP25-04 located 100 m along trend to the north of BP25-03 successfully extended the mineralization and host stratigraphy. Hole BP25-05 was drilled to evaluate a separate surface occurrence and conductive anomaly on L100N at 0+50W. Narrow, lower grade mineralization explained this target. Full assay results from the five holes are presented in Table 1 and drill hole locations in Figure 2. Further assay results are expected to be released in the coming weeks.

Table 1 - Drill Hole Results

Black Pearl Graphite Project
2025 Exploration Drill Results

Hole No.	Azimuth (True)	Dip	Grid Northing	Grid Easting	From (m)	To (m)	Thickness (m) A1	% Cg
BP25-01	275	-45	L0+05N	0+20E	10.83	11.32	0.49	15.10
					18.64	27.25	8.61	11.33
					45.95	46.80	0.85	6.73
BP25-02	275	-85	L0+05N	0+27E	12.73	13.21	0.48	6.46
					20.50	26.00	5.50	4.53
				including	23.00	26.00	3.00	6.65
					31.90	35.65	3.75	7.95
BP25-03	275	-45	L0+05N	1+56E	12.00	16.70	4.70	7.37
					25.14	25.64	0.50	9.94
					38.86	42.00	3.14	7.01
					44.50	51.00	6.50	4.77
BP25-04	275	-45	L1+00N	1+45E	8.25	10.30	2.05	4.95
					30.16	30.90	0.74	3.55
					47.75	48.15	0.40	4.92
BP25-05	275	-45	L0+95N	0+00E	35.90	36.70	0.80	2.43

Notes: A1 Intervals are core length. True width will be defined with additional drilling

In hole BP25-03, the interval from 12.0 to 16.7 metres grading 7.37% Cg over 4.7 metres includes a sample interval (from 12.0 to 13.0 metres) grading 8.09% Cg which had 30% core recovery.

UTM Nad 83, Zone 18

Select samples from the nine holes drilled at Black Pearl were submitted for assay analysis. A total of 620 m were drilled during the program. All drill core samples were sampled, stored and shipped using industry best practices and were delivered to Activation Laboratories ("ACTLABS"), Ancaster, Ontario, for sample preparation and analyses using laboratories' Code 4F-C Graphitic, analyzing C-Graphite (infrared) where the sample is subjected to a multistage furnace treatment to remove all forms of carbon with the exception of graphitic carbon; and C-Total (infrared). ACTLABS is an independent commercial, accredited ISO Certified Laboratory. The core sample program also included field duplicates, blanks and a graphite standard sample for quality control and quality assurance (QA/QC) purposes.

Figure 1 - Map of Graphano Claims and Black Pearl Project

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/8293/269369_57136d2e5406daa3_003full.jpg

Figure 2 - Map with the location of the drill holes at Standard

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/8293/269369_57136d2e5406daa3_004full.jpg

Qualified Person

The scientific and technical content disclosed in this press release has been reviewed and approved by

Roger Dahn, B.Sc., P.Geo., a director of the Company and a "Qualified Person" as defined in National Instrument 43-101 - Standards of Disclosure for Mineral Projects.

About Graphano Energy

Graphano Energy Ltd. is an exploration and development company that is focused on evaluating, acquiring, and developing energy metals resources from exploration to production.

Graphite is one of the most in-demand technology minerals that is required for a green and sustainable world. The Company's Lac Aux Bouleaux property, situated adjacent to Canada's only producing graphite mine, in Quebec, Canada, has historically been an active area for natural graphite. With the demand for graphite growing in some of the most prominent and cutting-edge industries, such as lithium batteries in electric cars and other energy storage technologies, the Company is developing its project to meet the demands of the future.

ON BEHALF OF THE BOARD OF DIRECTORS

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This news release contains certain "forward-looking information" and "forward-looking statements" (collectively "forward-looking statements") within the meaning of applicable securities legislation. All statements, other than statements of historical fact, included herein, without limitation, are forward-looking statements. Forward-looking statements are frequently, but not always, identified by words such as "expects", "anticipates", "believes", "intends", "estimates", "potential", "possible", and similar expressions, or statements that events, conditions, or results "will", "may", "could", or "should" occur or be achieved. Forward-looking statements in this news release relate to, among other things, continued exploration of Black Pearl and results therefrom, the potential and merits of Black Pearl, and future assay results and the timing thereof. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Forward-looking statements reflect the beliefs, opinions and projections on the date the statements are made and are based upon a number of assumptions and estimates that, while considered reasonable by Graphano, are inherently subject to significant business, economic, competitive, political and social uncertainties and contingencies. Many factors, both known and unknown, could cause actual results, performance or achievements to be materially different from the results, performance or achievements that are or may be expressed or implied by such forward-looking statements and the parties have made assumptions and estimates based on or related to many of these factors. Such factors include, without limitation, risks associated with possible accidents and other risks associated with mineral exploration operations, the risk that the Company will encounter unanticipated geological factors, risks associated with the interpretation of exploration results, the possibility that the Company may not be able to secure permitting and other governmental clearances necessary to carry out the Company's exploration plans, the risk that the Company will not be able to raise sufficient funds to carry out its business plans, and the risk of political uncertainties and regulatory or legal changes that might interfere with the Company's business and prospects. These risks, as well as others, are disclosed within the Company's filings on SEDAR+ at www.sedarplus.ca, the Canadian Securities Administrators' national system that all market participants use for filings and disclosure, which investors are encouraged to review prior to any transaction involving the securities of the Company. Readers should not place undue reliance on the forward-looking statements and information contained in this news release concerning these items. Graphano does not assume any obligation to update the forward-looking statements of beliefs, opinions, projections, or other factors, should they change, except as required by applicable securities laws.

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