



Graphano Provides Update on Airborne MAG-TDEM Geophysics Program at Black Pearl, Québec

Vancouver, BC, December 17, 2025 – Graphano Energy Ltd. (“Graphano” or the “Company”) (TSXV: GEL, FSE:97G0, OTC PINK: GELEF) reports that it has engaged Prospectair Geosurveys (Québec) to complete a helicopter-borne airborne magnetic (“MAG”) and time-domain electromagnetic (“TDEM”) geophysical survey over its Black Pearl Project in Québec (the “Survey”). The Survey is expected to commence this week, subject to weather conditions and aviation safety considerations.

Luisa Moreno, CEO of Graphano, commented: *“The high-resolution data acquisition will provide critical subsurface intelligence to guide our strategic development of the Black Pearl property. We’re utilizing proven geophysical methods that have successfully identified mineral systems throughout this highly prospective region.”*

Airborne Geophysics – Survey Specifications

Prospectair Geosurveys will conduct the Survey over approximately 637 line-kilometres in Quebec's Laurentides region. The helicopter-borne Survey utilizes N130-oriented traverse lines with 100m line spacing and control lines at 1,000m spacing.

Technical specifications include:

- real-time differential GPS navigation,
- cesium vapor magnetometer with magnetic base station for diurnal correction,
- time-domain EM system recording multi-channel off-time responses, and
- rigorous quality control with re-flight criteria for line spacing and magnetic noise.

Graphano expects to integrate the airborne datasets with existing geological and exploration information to support follow-up field investigations and prioritization of target areas.

Bulk Sample Update – LAB and Standard Projects

Graphano is currently in the process of engaging an engineering company to file and manage bulk sample extraction activities on the Company’s Lac Aux Bouleaux (“LAB”) and Standard project areas. Concurrently, the Company is advancing data gathering activities related to:

- site selection for sample extraction,
- geochemistry analysis,
- infrastructure requirements assessment, and
- environmental closure planning.

Geological reports are being compiled to support site selection at both the LAB and Standard locations. The Company is also progressing waste rock location planning activities in parallel with bulk sample permitting and engineering preparation.

About Graphano Energy

Graphano Energy Ltd. is an exploration and development company 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 Québec, 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, graphite zone expansion at Standard, ongoing mineral resource estimation work, further advancing the Company's projects, the Company potentially becoming a significant regional supplier of graphite to the North American market, and future assay results and any impact 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 filing 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.