

## Aerial EM Survey Commences Targeting Extensions to High-Grade Graphite Resource

Comet Resources Ltd (Comet or the Company) (ASX:CRL) is pleased to announce that it has engaged Perth-based geophysical specialists, Southern Geoscience Consultants (SGC) to undertake an aerial electromagnetic survey (EM) at the Springdale Graphite Project in southern West Australia.

The recent discovery of two high-grade zones of graphite mineralisation (ASX 7 May 2019) confirmed the ability to target shallow, high-grade graphite mineralisation using electromagnetic surveys. SGC conducted the program and has worked with Comet’s team to define an aerial EM strategy to provide the optimum exploration targeting tool.

### Highlights

- **Funded to advance focussed strategy – upgrade and increase shallow, high-grade resource**
- **Specialists engaged** to undertake aerial EM survey to **optimise exploration efficiency** by targeting high-grade, near-surface graphite
- **EM provides ability to demonstrate potential scale** of graphite-bearing stratigraphy identified in regional aeromagnetics

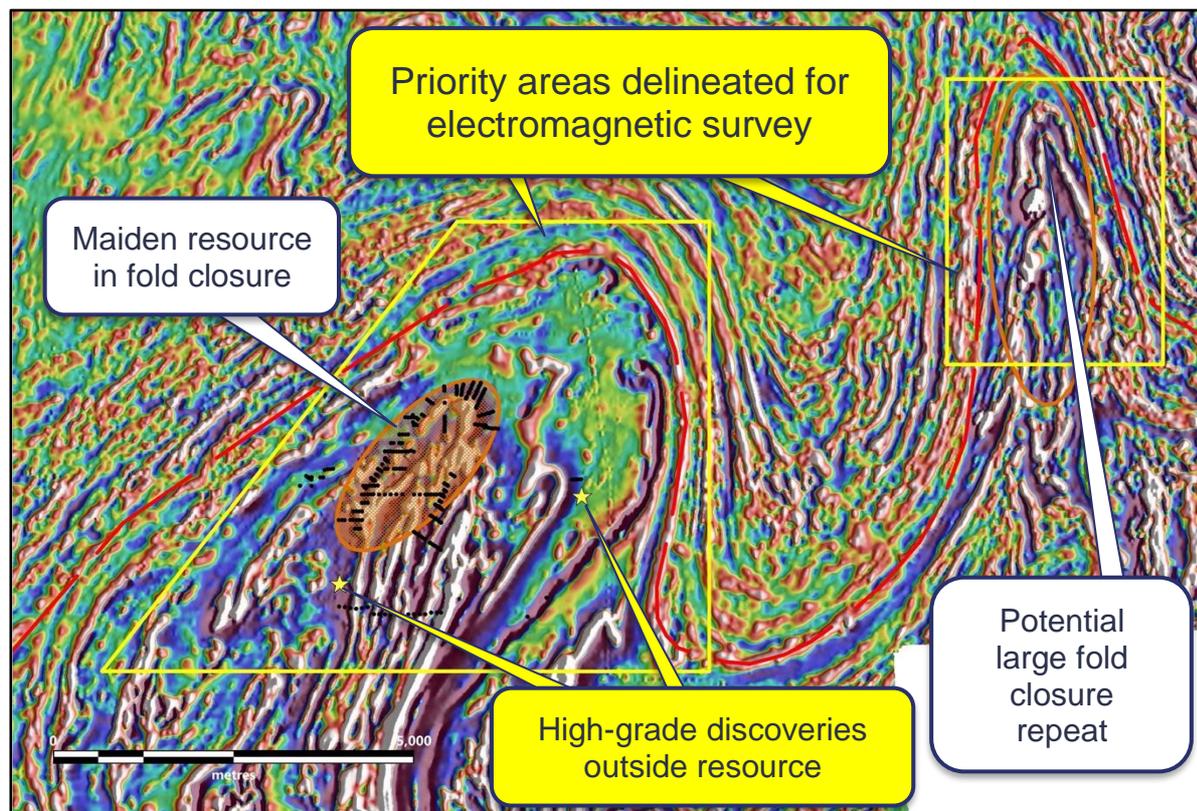


Figure 1 – Aeromagnetic image of Springdale showing existing resource area in fold closure, potential fold repeat, new high-grade discoveries and boundary lines for aerial EM survey to target shallow, high-grade graphite mineralisation.

Comet Resources CEO, Philippa Leggat, commented:

*“Our focus is to upgrade and increase the shallow-lying, high-grade component of the existing graphite resource, and we already have two high-grade discoveries outside the resource to assist us in achieving this aim. We’ve confirmed the ability to use electromagnetic surveys to target high-grade graphite mineralisation that are near-surface and are now ready to move ahead with the first aerial EM survey.*

*“We expect the results to provide the necessary information to enable our geological team to target the best zones of high-grade graphite mineralisation.”*

The Springdale Graphite Project already has a defined Inferred Resource of 15.6Mt @ 6% Total Graphitic Carbon (TGC) including a **high-grade portion of 2.6 million tonnes at 17.5% TGC** (ASX 6 Dec 2018). The majority of defined resources are situated **within 60 metres of surface**.

### Aerial Electromagnetic Survey

SGC are managing the EM survey and will work with Comet’s team to provide a prioritise list of targets and models. CGG Aviation will fly the survey using an advanced helicopter electromagnetic system which is the only system operating at 6.25Hz base frequency. It uses a breakthrough, large-diameter, ultra-low noise receiver, and a very-low frequency, square-wave transmitter pulse, to provide improved detection of high conductance targets. The survey is scheduled to be flown in the first two weeks of August, subject to weather conditions, and followed by interpretation on the data by SGC.



Figure 2 – Helitem<sup>2</sup> system with large diameter ‘Fat Boy’ receiver shown in foreground

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## About the Springdale Graphite Project in Western Australia

The 100% owned Springdale graphite project is located approximately 30 kilometres east of Hopetoun in south Western Australia. The project is situated on free hold land, with good access to infrastructure being within 150 kilometres of the port at Esperance via sealed roads.

The tenements lie within the deformed southern margin of the Yilgarn Craton and constitute part of the Albany-Fraser Orogen. Comet owns 100% of the three tenement's (E74/562, E74/583 and E74/612) that make up the Springdale project, with a total land holding of approximately 220 square kilometres.



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### SPRINGDALE GRAPHITE PROJECT

- Hamish Halliday** CHAIRMAN
- Philippa Leggat** CHIEF EXECUTIVE OFFICER
- Alex Molyneux** NON-EXECUTIVE DIRECTOR
- David Prentice** NON-EXECUTIVE DIRECTOR
- Sonu Cheema** COMPANY SECRETARY AND CFO

## Key information on the Springdale Graphite Project

- Comet completed a first pass aircore drilling program in February 2016, which confirmed that graphite was present (Western Zone).
- In September 2017 a 220km<sup>2</sup> detailed aeromagnetic survey was conducted (*ASX release 10 Nov 2017*). Interpretation delineated 26 kilometres of stratigraphy deemed to be prospective for graphite mineralisation. Less than 20% of the identified stratigraphy has been drill tested indicating the potential scale of the Project.
- The Northern Zone was defined as a high priority drill target. RC drilling completed between December 2017 and February 2018 was successful in identifying high grade graphite mineralisation in the Northern Zone.
- Comet released a Maiden Resource (*Table 1*) at the Springdale Graphite Project late 2018 that incorporated the Northern, Western and Eastern Zones (*ASX release 6 Dec 2018*).
- The high-grade portion of the resource is 2.6Mt at 17.5% Total Graphitic Carbon (TGC) (*Table 1*).
- Metallurgical test work in April 2017 proved that graphene can be produced from Springdale graphite by electrical exfoliation. It is very rare for a graphite deposit to be able to produce graphene using the exfoliation method on solid, untreated rock.
- The discovery of two new high-grade zones of graphite mineralisation was announced in May 2019. The results of the drilling program confirmed that electromagnetic surveys could be used as a targeting tool for shallow, high-grade graphite mineralisation (*ASX release 7 May 2019*).

## Appendices

### Forward-Looking Statements

This document includes forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Comet Resources Limited's planned exploration programs, corporate activities and any, and all, statements that are not historical facts. When used in this document, words such as "could," "plan," "estimate," "expect," "intend," "may", "potential," "should" and similar expressions are forward-looking statements. Comet Resources Limited believes that its forward-looking statements are reasonable; however, forward looking statements involve risks and uncertainties and no assurance can be given that actual future results will be consistent with these forward-looking statements. All figures presented in this document are unaudited and this document does not contain any forecasts of profitability or loss.

### Competent Persons Statement

The information in this report that relates to Exploration Results, Exploration Targets and Mineral Resources is based on information compiled by Matthew Jones, who is a Competent Persons and Member of The Australasian Institute of Mining and Metallurgy. Matthew Jones is full-time Exploration Manager of the Company. He has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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". Matthew Jones consents to the inclusion in this report of the matters based on their information in the form and context in which it appears.

### No New Information

To the extent that this announcement contains references to prior exploration results and Mineral Resource estimates, which have been cross referenced to previous market announcements made by the Company, unless explicitly stated, no new information is contained. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Mineral Resources that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

Table 1

### Springdale Project Resource Estimate reported at a $\geq 2\%$ TGC cut-off grade

Domain	Tonnes (Mt)	Density (t/m <sup>3</sup> )	Graphite (TGC%)	JORC Classification
High grade	2.6	2.1	17.5	Inferred
Low grade	13.0	2.2	3.7	Inferred
<b>Total Resources</b>	<b>15.6</b>	<b>2.2</b>	<b>6.0</b>	<b>Inferred</b>

Note – Inferred Resources have only been reported from within mineralised wireframe domains defined by a nominal 2% TGC cut-off for low-grade and a nominal 15% TGC cut-off for high-grade to a nominal depth of 100m.