



## Leviathan Copper Gold Rare Earths Geophysics Completed

WESTERN AUSTRALIA, Perth, Oct. 25, 2019 – Strategic Elements Ltd (ASX: SOR) is pleased to confirm that it has completed a detailed ground based geophysical survey to generate drill targets at the newly acquired Leviathan copper-gold-rare earths project.

The **detailed** gravity survey at the Leviathan Project was designed to follow up a gravity anomaly identified from a wider spaced regional gravity survey released early this year. Detailed gravity applicable for modelling the Leviathan anomaly was conducted by Atlas Geophysics and consisted of a total of 349 gravity stations at 400m spacing with two infill lines running north-south at 100m spacing.

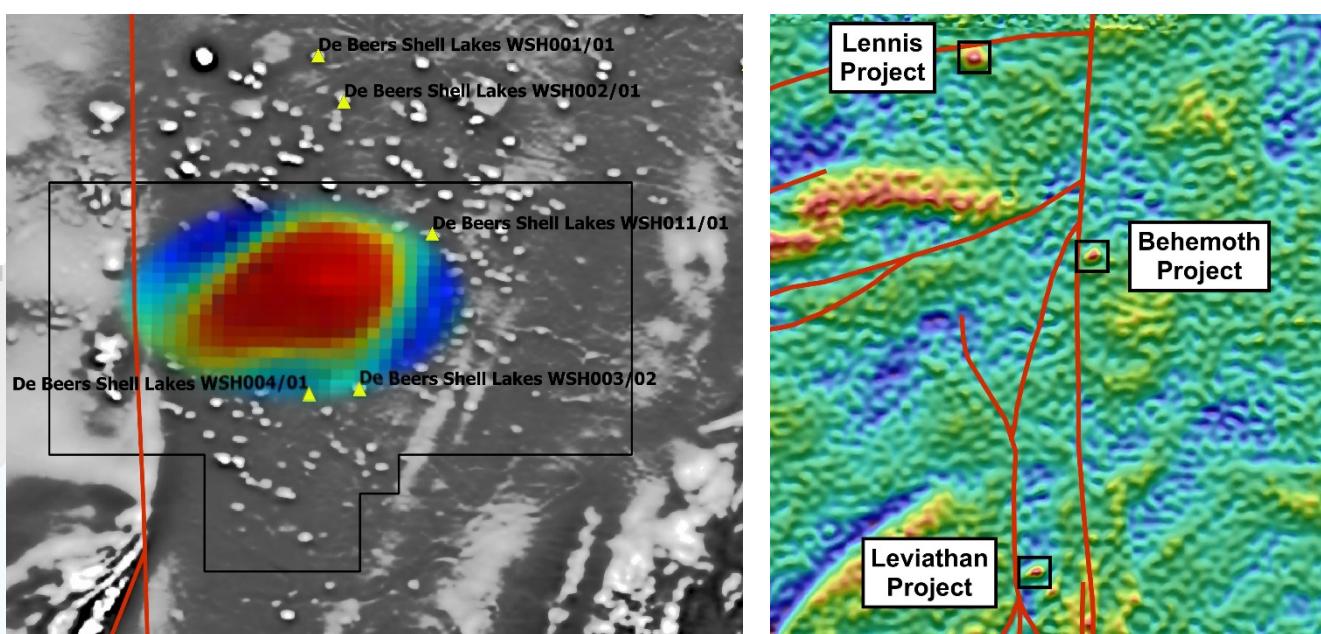
The objective of the ground based gravity survey was to generate detailed data applicable for modelling and develop drilling targets. 3D inversion and forward modelling is currently being conducted by Southern Geoscience Consultants and is expected to be reported within the next few weeks.

### Leviathan Project<sup>1</sup>

The Leviathan Project consists of an approx. 4km gravity anomaly surrounded by up to 100 suspected volcanic pipes reported from previous diamond exploration. The **regional** Leviathan gravity anomaly was not visible until new gravity data became available in 2019 and therefore has no previous exploration. It is considered prospective for copper-gold-rare earths mineralisation related to volcano-intrusive complexes.

Historical drill records viewed by the Company contain multiple references to disseminated sulphides. Recent petrographic analysis of historical drill core by Dr Franco Pirajno confirmed a volcanic pipe with fragments of galena (lead sulphide) and chalcopyrite (**copper** sulphide).

The Leviathan gravity anomaly is postulated to be the top of an alkaline intrusion and potential associated **carbonatite** surrounded by volcanic pipes identified in De Beers drill cores and magnetic data. It is considered prospective for copper-gold-rare earths mineralisation related to volcano-intrusive complexes.



*Figure 1; VD magnetic image of tenement and examined DeBeers drill holes; red regional scale gravity anomaly indicates potential top of alkaline or carbonatite intrusion, dots around the green circle are lamprophyre plugs, associated diatreme breccia. The N-S trending red line represents the Meteorite Fault.*

Carbonatites consist of more than 50% carbonate material that are highly prospective for **copper-gold-rare earths**. The approx. 3km diameter Mt Weld carbonatite in Western Australia is one of the world's richest sources of rare earths. Other alkaline intrusions and carbonatites are associated with copper, gold and niobium.

### **Strategic Elements Ltd**

The Australian Federal Government has registered Strategic Elements as a Pooled Development Fund with a mandate to back Australian innovation. Strategic Elements operates as a 'venture builder' where it generates ventures and projects from combining teams of leading scientists or innovators in the technology or resources sectors. Due to the Pooled Development Fund program that Strategic Elements operates under, most shareholders pay no tax on capital gains or dividends. The Company is listed on the ASX under the code "SOR".

The Leviathan project was founded in collaboration with Dr Franco Pirajno who is a recognised global expert on mineral systems, with **more than 50 years of experience, in industry, academia and government**. Dr Pirajno has considerable knowledge in tectonics and ore deposit geology in: Europe, southern Africa, South East Asia, New Zealand, southwest Pacific, China, southern Siberia, Greenland and Australia. He is the author of four books and a monograph on mineral deposits and of more than 180 peer-reviewed papers.

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<sup>1</sup>Announced 15/10/19