

TEM | Yalgoo Update - Regional ElectroMagnetic Survey Commenced

Key Points

- Airborne EM Survey underway at Yalgoo
- Survey to cover the Meleya and War West Project Areas
- Anticipated to generate multiple new exploration targets
- Extremely high resolution data to be generated to complement existing models

Summary

Tempest Minerals Ltd (TEM) is pleased to announce the commencement of a high resolution airborne electromagnetic (EM) survey across the central portion of the Company's 100% owned Yalgoo tenements. The survey is intended to complement existing datasets by providing ultra high resolution geophysical data. EM is commonly used when looking for sulphide mineralisation and is considered standard practise when exploring for VMS deposits.



Figure 01: NRG Helicopter and EM loop preparing for production

Yalgoo Region

Background

TEM's landholding in the Yalgoo Region of Western Australia of more than 1,000km² of 100% owned highly prospective tenements and is the Company's flagship within its exploration and project development portfolio. Different geological domains are referred to as four different 'project areas' – namely: Messenger, Meleya, War West, Euro - though much of these have considerable geological overlap. TEM have been actively exploring within the Yalgoo region through data analysis, fieldwork, drilling and encountered multiple zones of previously unknown mineralisation to date ¹.

Geophysics such as EM are an important tool in locating new drill targets and understanding the regional geology as a whole to enhance chances of discovery.

Electromagnetic Survey

Electromagnetic surveys measure the electrical conductivity and magnetic susceptibility of the earth. These properties are influenced by the presence of water, minerals, and other materials and can be used to map the distribution of these in the subsurface to assist mineral exploration.

Some types of sulphide mineralisation can be quite conductive and EM in particular is widely used for the identification of the presence of volcanogenic massive sulphides (VMS) such as found at the nearby Golden Grove operations and other prospects within the Yalgoo Region.

TEM have engaged NRG who are an airborne geophysical contracting company specializing in the collection of ultra-high resolution airborne data ² to complete the survey. NRG are performing the survey using a helicopter mounted custom built ultra high resolution electromagnetic loop 'XCite' system.

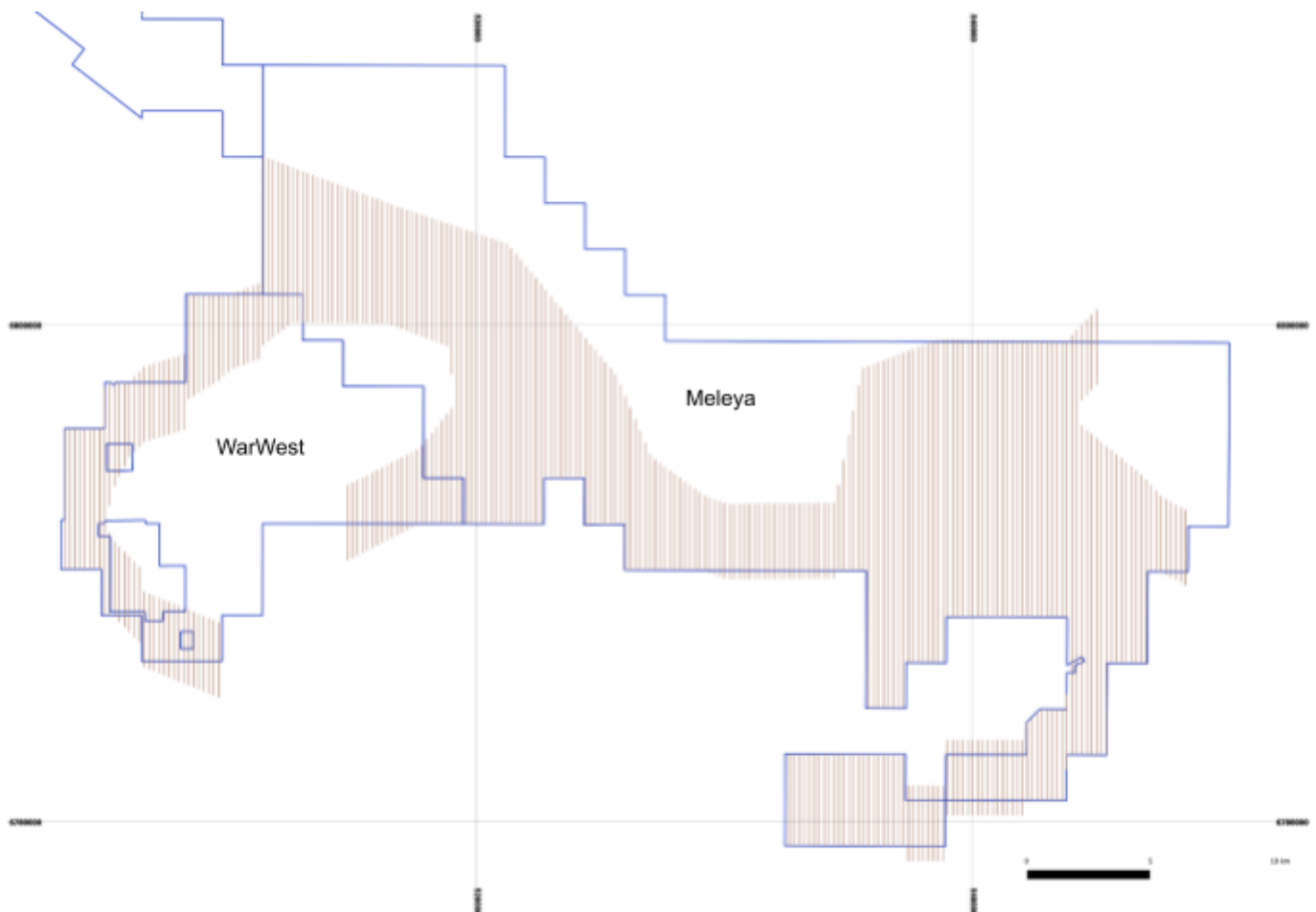


Figure 02: Schematic map of planned survey area

NRG will fly approximately 300 lines of 200m spacing for around a total of about 2,000 kilometres of line survey measurements.

The survey will cover a large percentage of the Meleya and War West project areas with the intent of providing multiple outcomes: new exploration and drill targets; verify and provide more detail on existing exploration targets; and give more resolution to the underlying geology - much of which is under shallow cover.

All previous work such as magnetic modelling ³ and downhole EM surveys at the Orion target ⁴ will be progressively integrated with this new survey dataset and used to calibrate and inform the survey modelling going forward.

Next Steps

- Completion of survey expected by end of June
- Preliminary modelling and targets expected July
- Ongoing progression of exploration targets continuing region wide including multiple planned drill programs



Figure 03: EM Survey In Progress Over The Meleya Project

The Board of the Company has authorised the release of this announcement to the market.

About TEM

Tempest Minerals Ltd is an Australian based mineral exploration company with a diversified portfolio of projects in Western Australia considered highly prospective for precious, base and energy metals. The Company has an experienced board and management team with a history of exploration, operational and corporate success.

Tempest leverages the team's energy, technical and commercial acumen to execute the Company's mission - to maximise shareholder value through focussed, data-driven, risk-weighted exploration and development of our assets.

Investor Information

 investorhub.tempestminerals.com

TEM welcomes direct engagement and encourages shareholders and interested parties to visit the TEM Investor hub which provides additional background information, videos and a forum for stakeholders to communicate with each other and with the company.

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Competent Person Statement

The information in this announcement that relates to Exploration Results and general project comments is based on information compiled by Don Smith who is the Managing Director of Tempest Minerals Ltd. Don is a Member of AusIMM, AIG and GSA and has sufficient experience relevant to the style of mineralisation under consideration and to the activities 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'. Don consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Appendix A: References

1. TEM ASX Announcement dated 20 June 2023 "Yalgoo Exploration Update"
2. NRG website <https://airbornegeophysics.com/> (accessed 2023-06-19)
3. LI3 ASX Announcement dated 18 August 2020 "Meleya Zone Targets Identified From New Geophysical Data"
4. TEM ASX Announcement dated 8 September 2022 "Orion DHEM Survey And Assays Confirm Project Potential"