

Launch of 2025 field activities at Aileron – West Arunta

- Field activities have commenced at Aileron, in the West Arunta region of WA, with a substantial exploration and project development program planned for 2025 including:
 - 40,000m of aircore, RC and diamond drilling highlighted by:
 - RC drilling at Green, Emily and Crean to define and expand mineral resources
 - Aircore drilling at compelling, untested targets defined on the major controlling structures known to host mineralised carbonatites
 - Co-funded diamond drilling supported by the WA Government Exploration Incentive Scheme
 - 1,000km² helicopter-borne electromagnetic survey to assist with carbonatite targeting, identify conductive features associated with possible copper sulphide mineralisation, and define potential water resources for future operations
 - Ground gravity and passive seismic trials aiming to image preferential weathering associated with high-grade niobium-REE mineralisation within the large carbonatites at Aileron
 - Ongoing metallurgical assessment of the high-grade mineralisation defined to date
 - Environmental surveys to support future project development
- Drilling to commence in the coming weeks with resource definition drilling at Green, Emily and Crean, a second drill rig will be mobilised shortly thereafter to test regional targets

Commenting on upcoming activities, Executive Chairman Will Robinson said:

“Our first priority for 2025 is resource definition drilling at Green, Crean and Emily to further delineate and expand on identified areas of high-grade mineralisation. In parallel, a major program of geophysics and drilling aims to demonstrate the rapidly increasing potential of this new and highly endowed mineral field.”



Photo 1 – Aileron field camp re-established in preparation for major exploration programs in 2025

Encounter Resources Ltd (“Encounter”) is pleased to announce the launch of significant exploration programs at the Aileron project (100% ENR) in the West Arunta region of WA.

Resource Definition Drilling

An initial RC drill program will commence shortly to further delineate high-grade zones of niobium mineralisation identified through the aircore and RC drilling programs of 2024. Drilling will focus on demonstrating continuity along strike between existing sections, and depth extensions below shallow aircore drilling.

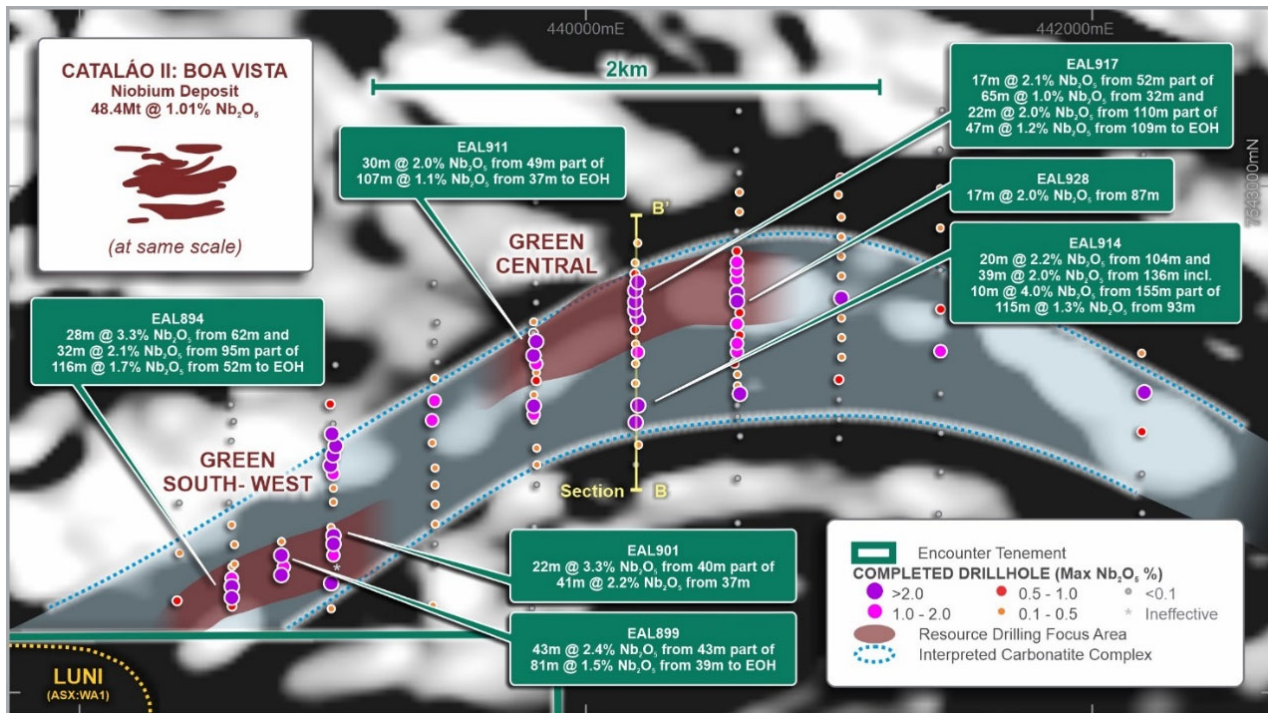


Figure 1 – Green Drill Plan (Magnetics TMI 1vd) – showing multiple continuous zones of high-grade mineralisation 1,2,4,6,7,8

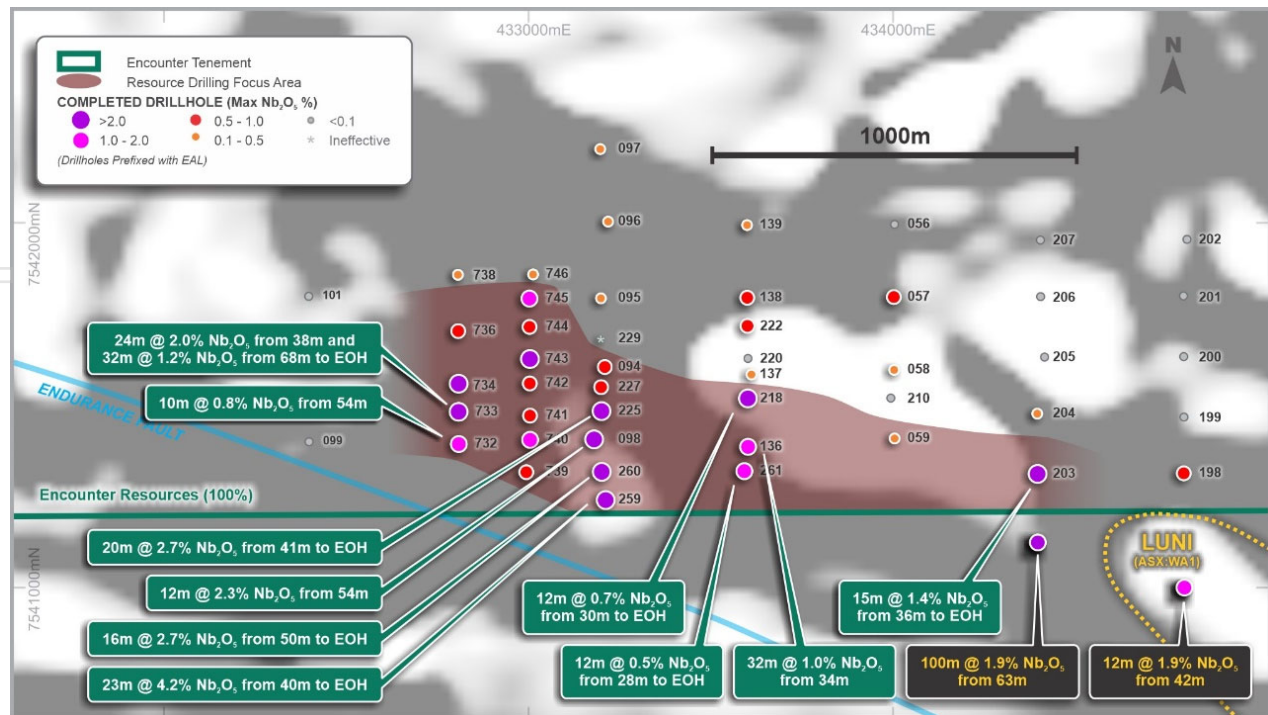


Figure 2 – Emily Drill Plan (Magnetics TMI 1vd) – showing a continuous zone of high-grade mineralisation where shallow aircore drilling has ended in mineralisation 1,3,5,9

Regional Exploration

Encounter holds a commanding, prospective tenure position in the West Arunta. Exploration programs throughout 2023 and 2024 have demonstrated that the major faults are the deep, mantle-tapping conduits bringing mineralised carbonatite magmas to surface.

Encounter has demonstrated niobium-REE mineralisation along an 8km strike along the northern Elephant Island fault where the high-grade niobium zone at Crean was discovered.

Along the southern Weddell fault, high-grade mineralisation exists along ~10km of strike extending through Emily, Luni and Green and this system remains open to the east and west. Late in 2024 two lines of reconnaissance aircore drilling were completed ~8km to further east at Joyce and this identified potential extensions of the carbonatite complex.

The key controlling mineralising structures in the West Arunta are clearly mapped by geophysics (Figure 3). Encounter has identified numerous additional targets in favourable structural positions utilising magnetics and gravity. These targets will be refined by a 1,000km² line km airborne EM survey scheduled for July.

Targets will be tested with rapid, low-cost aircore drilling and, if carbonatite hosted niobium-REE mineralisation is identified, then ground gravity/seismic will be deployed to identify areas of deeper weathering, indicative of potential niobium enrichment processes.

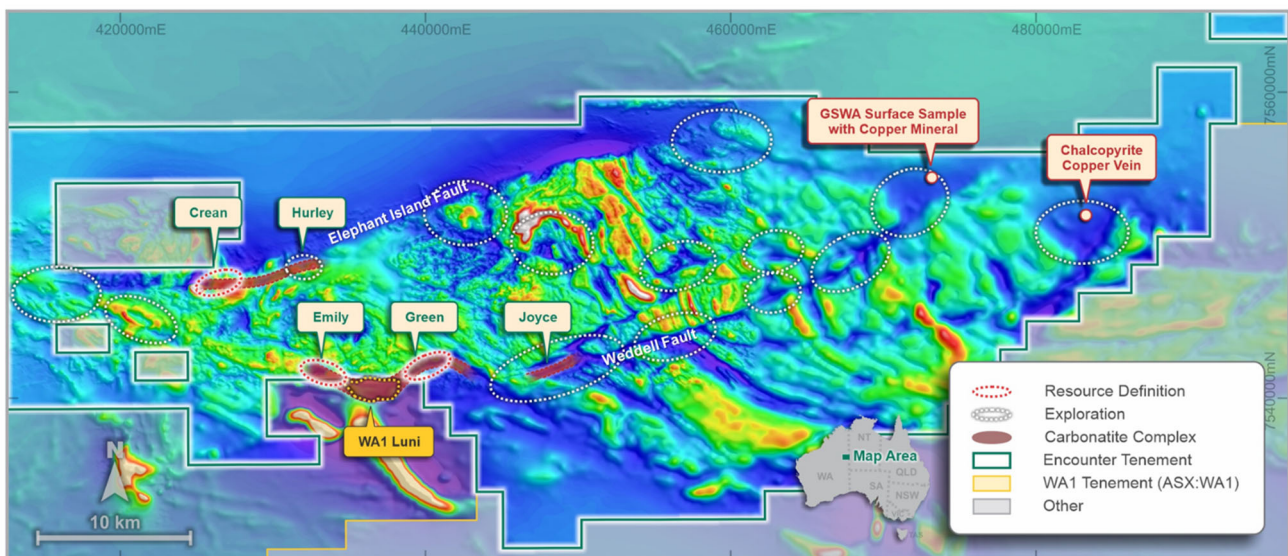


Figure 3 – Aileron Project Magnetics (RTP) – showing identified carbonatite complexes with targeted areas for regional exploration and the major controlling ENE trending faults (Elephant Island and Weddell Faults)³

Copper in the West Arunta

Diamond drilling was completed at the eastern side of the Aileron project in 2024, approximately 40km east of the known mineralisation at Aileron, and where no previous drilling has been completed (Figure 3).

A narrow vein of copper was intersected within a metamorphosed gabbro unit beneath shallow cover at the Perce target³. The presence of this semi-massive chalcopyrite vein in the first drill hole at Perce provided encouragement for the presence of a hydrothermal copper mineral system.

The Geological Survey of WA (GSWA) has also reported preliminary results from TIMA scans on surface heavy mineral concentrates collected at 5km grid spacing in the West Arunta region. This included the identification of cuprite (a copper oxide mineral) in a sample located at the Leopard target, which had previously been independently identified as a high priority structural target along the Weddell fault zone which hosts significant carbonatites and niobium mineralisation.

The presence of copper in GSWA heavy mineral data at Leopard and the vein of chalcopyrite in the first drill hole at Perce provide an encouraging start to exploration in the eastern part of Aileron.

In addition to the niobium-REE exploration targeting, the 2025 exploration program will test copper-gold targets with aircore drilling and surface geochemical sampling. The planned airborne EM survey may also provide priority drill targets if the survey identifies conductive bodies in the basement.

Early Project Development Activities

In parallel to the exploration program at Aileron, the Company is progressing project development and study activities underpinned by the expanding zones of high-grade niobium mineralisation. These activities include detailed early resource modelling, mineralogical evaluation, metallurgical test work, marketing, environmental surveys, mining and infrastructure studies.

Updates will be provided regarding key project milestones throughout 2025, including initial resource estimates, metallurgical test work, extensional drilling at known mineralised prospects and new target testing.

¹ ENR ASX announcement 8 July 2024

² ENR ASX announcement 16 September 2024

³ ENR ASX announcement 14 October 2024

⁴ ENR ASX announcement 21 November 2024

⁵ ENR ASX announcement 12 December 2024

⁶ ENR ASX announcement 13 December 2024

⁷ ENR ASX announcement 22 January 2025

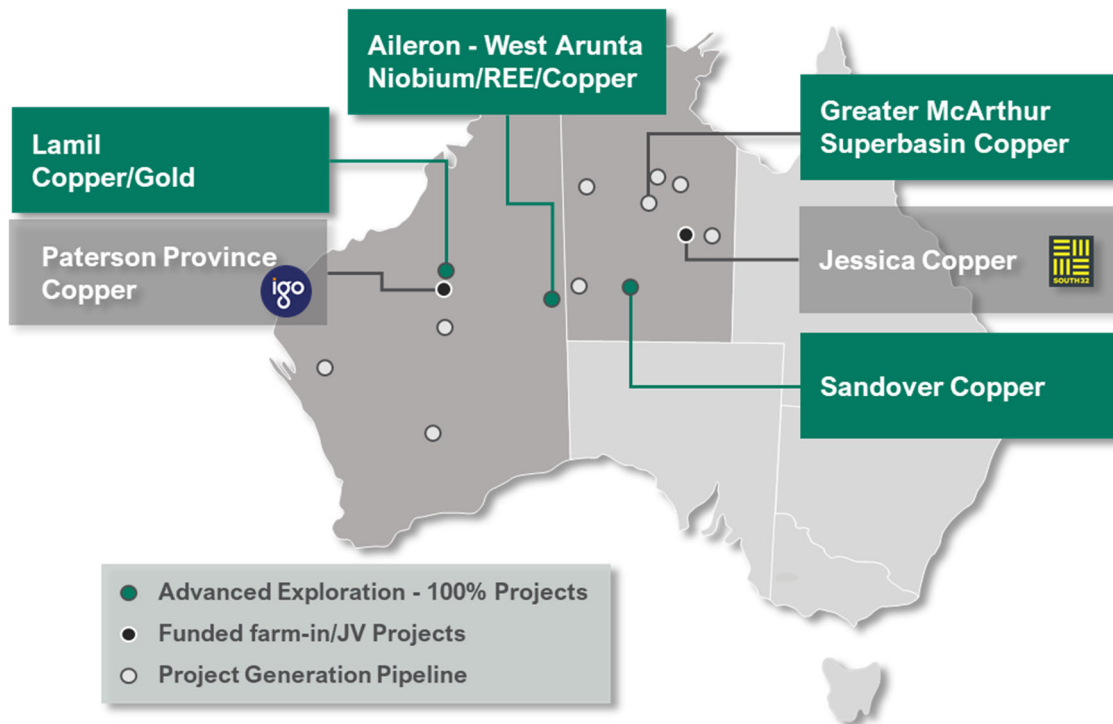
⁸ China Molybdenum Co., Ltd, Major Transaction Acquisition of Anglo American PLC's Niobium and Phosphates Businesses, 8 September 2016

⁹ WA Resources Ltd (ASX:WA1) announcements 30 June 2024 & 13 January 2025

About Encounter

Encounter is one of Australia's leading mineral exploration companies listed on the ASX. Encounter's primary focus is on discovering major copper and niobium/REE deposits in Australia.

Encounter controls a large portfolio of 100% owned projects in Australia's most exciting mineral provinces that are prospective for copper and critical minerals including the Aileron project in the West Arunta region of WA. Complementing this, Encounter has numerous large scale copper projects being advanced in partnership and funded through farm-in agreements.



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The information in this report that relates to Exploration Results and visual observations is based on information compiled by Mr. Mark Brodie who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Brodie holds shares and options in and is a full time employee of Encounter Resources Ltd and has sufficient experience which is relevant to the style of mineralisation under consideration to qualify as a Competent Person as defined in the 2012 Edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Brodie consents to the inclusion in the report of the matters based on the information compiled by him, in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information in the relevant ASX releases and the form and context of the announcement has not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

This announcement has been approved for release by the Board of Encounter Resources Limited.