Preparations underway for copper drilling at Yeneena

Encounter Resources Limited (ASX: ENR) (‘Encounter’ or **‘the Company’)** has identified an interpreted gossan (weathered sulphide zone) in historical drilling at the BM5 prospect, part of its Yeneena Copper Project in the Paterson Province in WA, further highlighting the project's copper potential.

Key Highlights:

- **Encounter recently regained 100% ownership of Yeneena**
- **6-hole RC drill program scheduled for October 2025**
- **Data review highlights BM5 as a high-priority copper drill target**
- **Regional aircore drilling intersected strong multi-element anomalism, including:**
  - **15m @ 21.8 g/t Ag, 1729ppm Cu, 1342ppm Pb, 452ppm Zn, 350ppm Co from 69m to <u>end of hole</u> (23PTAC0109)**
- **Petrography confirms a potentially significant end-of-hole gossan (weathered sulphide zone)**
- **Evaluation of the near-surface copper oxide zone at BM1 is ongoing; update expected August 2025**

Executive Chairman, Will Robinson, Comments:

“We’ve identified a compelling copper target at BM5, with petrology confirming a probable gossan and assays showing strong silver, copper, lead, and zinc anomalism. The gossan sits right on newly recognised fold axes beside a major fault, a classic structural setting for a sediment-hosted copper deposit. We plan to drill this target in October, while continuing to advance our high-impact drill programs in the West Arunta.”

BM5 Copper Prospect

Aircore drilling at BM5 in 2023 targeted a hydrogeochemical anomaly (from sampling of groundwater from drillholes) and intersected anomalous copper, silver, and base metal values in 400m-spaced holes adjacent to a major regional fault structure. Follow-up aircore drilling in early 2024 extended the copper anomaly a further 600 metres to the north.

The anomalous intervals are hosted within an iron-manganese-rich horizon located at the base of the weathering zone, with logging identifying this zone as potentially gossanous.

Petrographic analysis of drill chips from hole 23PTAC0109 confirmed gossanous material, with goethite replacing zoned (bravoitic) pyrite-textures typically linked to hydrothermal systems including some sediment-hosted base metal deposits. This supports the interpretation that the prior drilling at BM5 intersected the weathered expression of copper sulphide mineralisation which has extended along a fault.

Fault textures were identified in the samples from 81-82m (**see Photo 1**), providing further evidence of structural control of mineralisation. The presence of significant multi-element anomalism, particularly elevated silver (up to 55.1 g/t) and palladium (up to 24.7 ppb), supports this gossan interpretation and highlights the potential for nearby primary copper sulphide mineralisation.

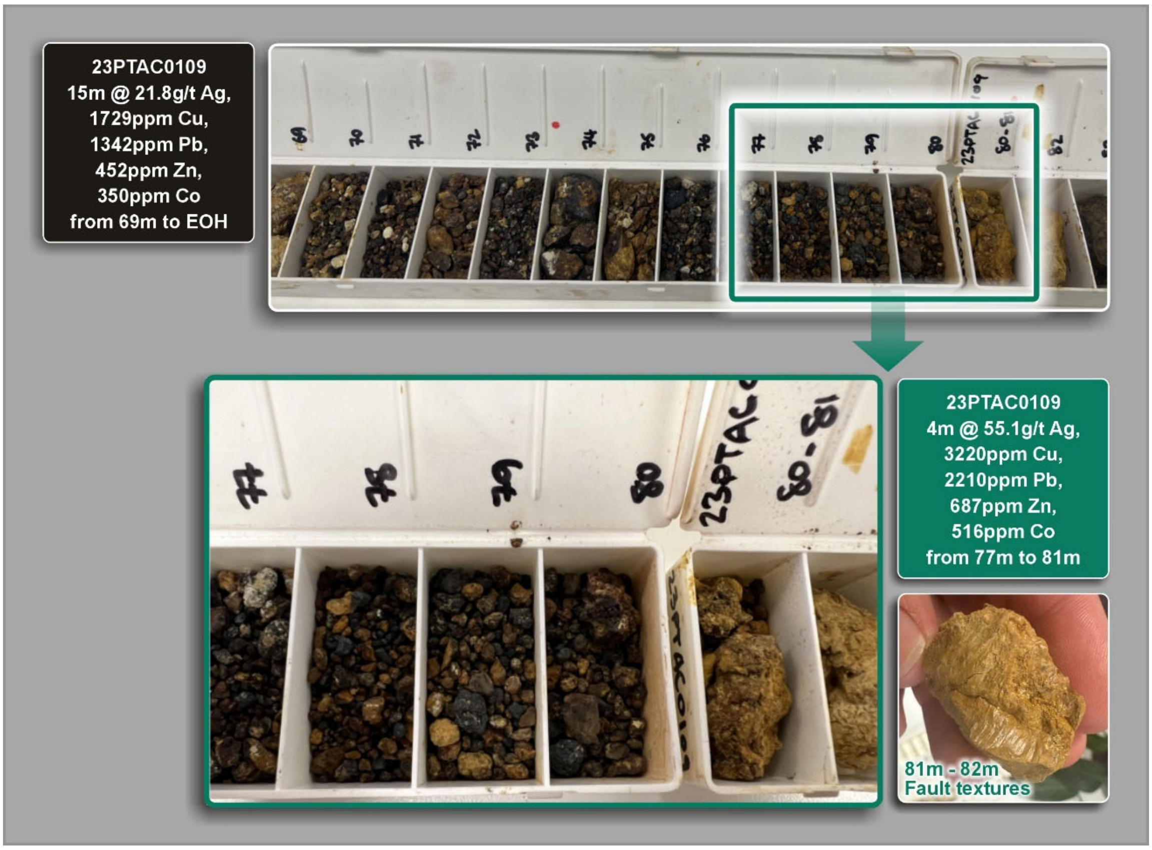


Photo 1: Gossanous samples in chip trays from BM5 drillhole 23PTAC0109 (assays reported in release dated 5 March 2024)

A plausible geological model suggests primary mineralisation may occur at depth, associated with the apex of an interpreted anticline, adjacent to a mineralising fault **(see Figure 2).** Interpretation of airborne EM data has identified additional fold axes and a zone of low conductivity **(see Figure 3)** that coincides with near-surface copper anomalism intersected in multiple aircore holes. This low conductivity feature may reflect alteration related to a mineralising event.

The planned RC drill program will target the faulted corridor and the interpreted core of the anticline **(see Figure 1)**. This target lies within the Broadhurst Formation, adjacent to a major regional fault, a geological setting analogous to the Nifty copper deposit, located approximately 50km to the north-west **(see Figure 4).**

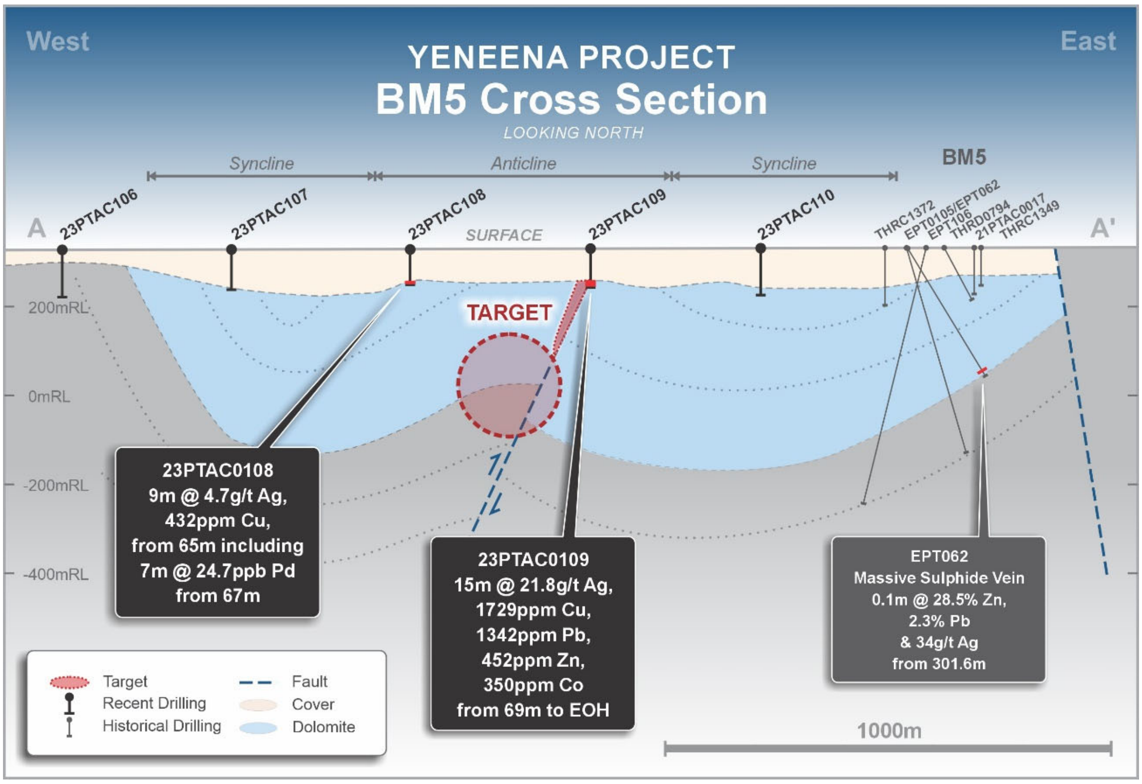


Figure 1: Cross section and drilling target at BM5 [1]

GENERAL

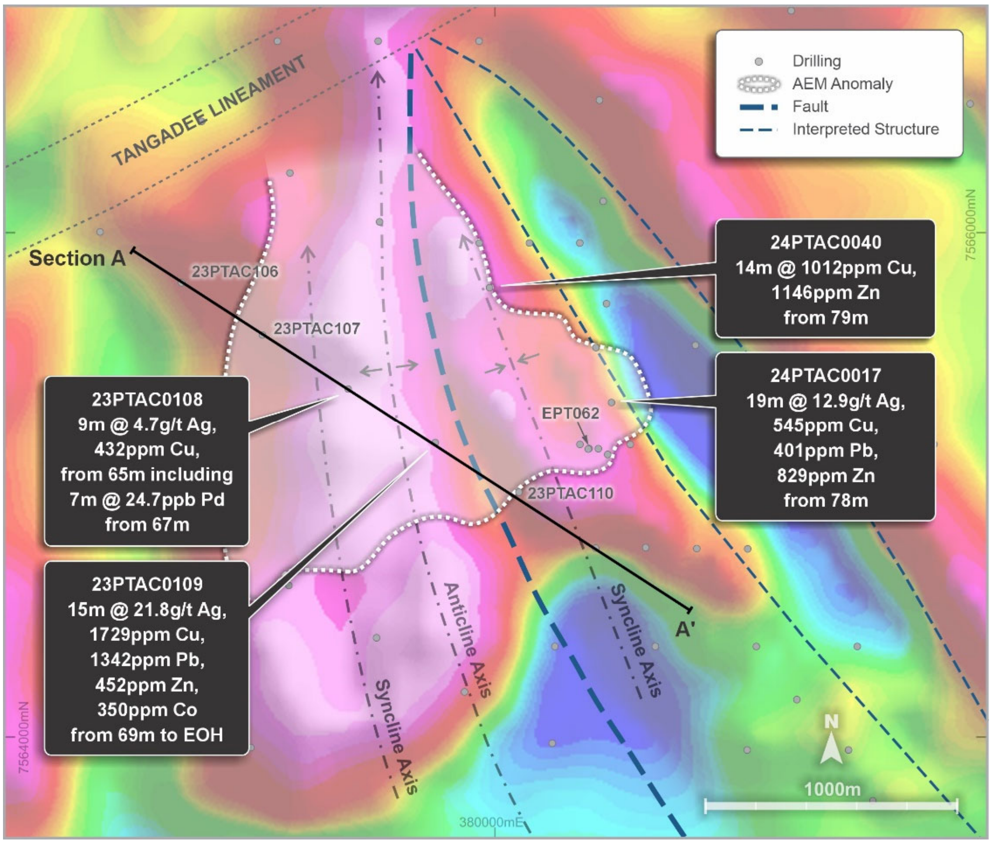


Figure 2: BM5 Exploration summary plan (1VD gravity) [1]

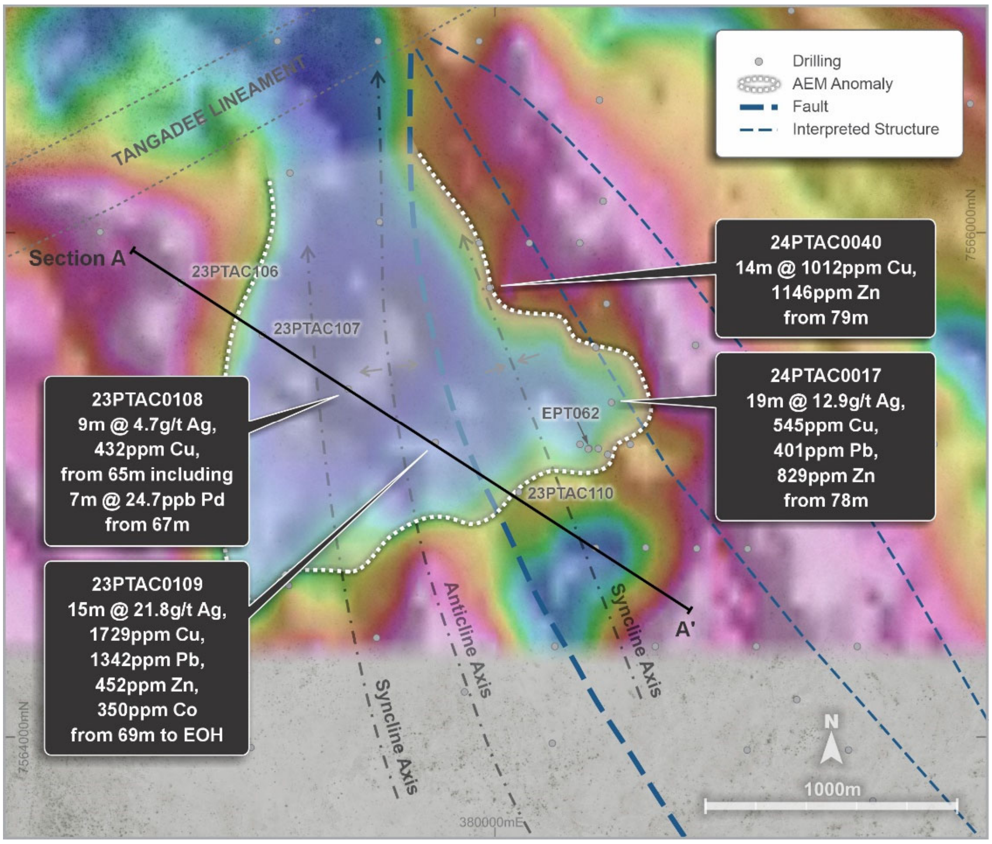


Figure 3: BM5 Exploration summary plan (VTEM 202m depth slice) [1]

Next Steps

- RC drilling at **BM5** is scheduled for **October 2025**, targeting the faulted corridor and anticline core.
- Continued evaluation of the near-surface, **high-grade copper oxide zone at BM1**, with an update expected in **August 2025**.
- Ongoing review of extensive datasets from prior exploration across the **Yeneena Project**.

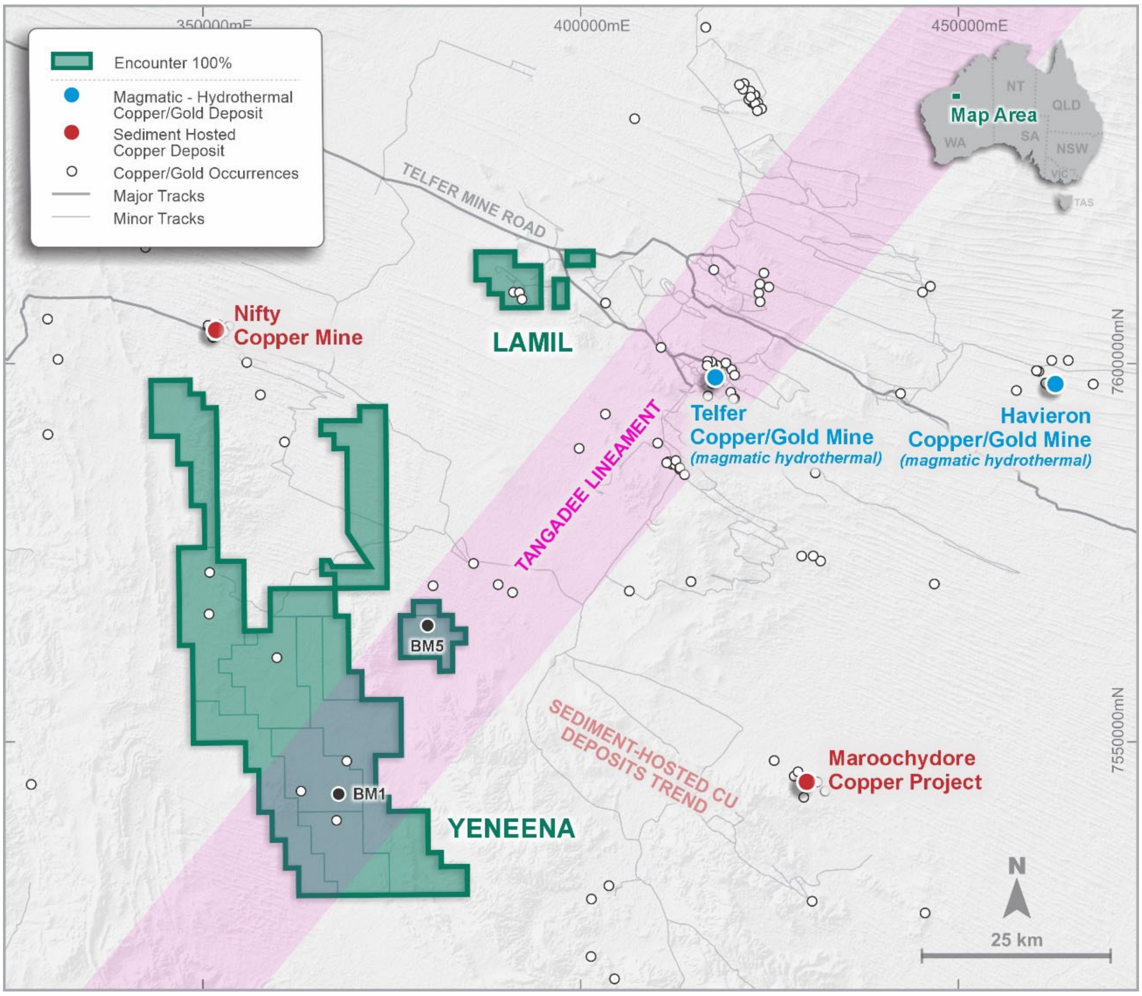


Figure 4 – Yeneena Project Location Plan

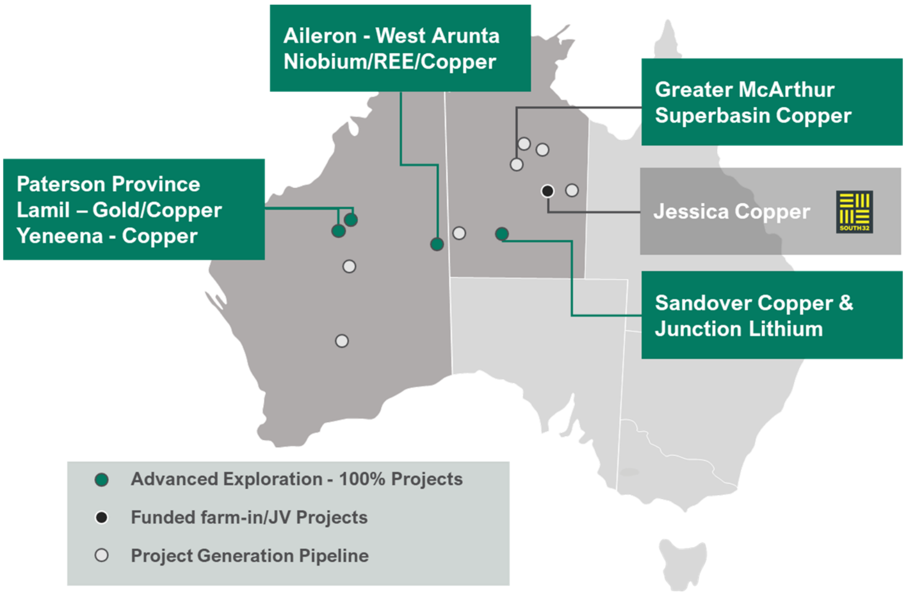
[1] ASX announcement 5 March 2024
[2] ASX announcement 14 May 2025

About Encounter

Encounter Resources Limited (ASX:ENR) is a leading Australian mineral exploration company focused on the discovery of major copper and niobium/rare earth element (REE) deposits.

The Company holds a commanding portfolio of 100%-owned projects located in some of Australia's most prospective mineral belts, targeting copper and critical minerals. Key among these is the Aileron Project in the highly endowed West Arunta region of Western Australia, emerging as a significant frontier for critical mineral exploration.

Encounter's strategy is centred on high-impact discovery in Tier 1 jurisdictions, leveraging strong technical capability and a proven track record of attracting leading industry partners.



Deposit	1.0% Nb_2O_5 cut-off (subset of 0.25% Nb_2O_5 cut-off)		0.25% Nb_2O_5 cut-off	
	Tonnage (Mt)	Grade (% Nb_2O_5)	Tonnage (Mt)	Grade (% Nb_2O_5)
Green	12.1	1.63	48.0	0.81
Emily	3.7	1.94	13.9	0.93
Crean	3.5	1.92	5.7	1.38
Total	**19.2**	**1.74**	**67.6**	**0.88**

Table 1 – Aileron Project Inferred Mineral Resource Estimate [2]

Notes:

- *The resource is constrained within optimised pit shells based on a price of US$45 per kilogram Nb (US$30/kg FeNb) and is reported above a 0.25% Nb_2O_5 cut-off grade.*
- *The resource reported above a 1% Nb_2O_5 cut-off grade is a subset of the 0.25% Nb_2O_5 cut-off grade.*
- *All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding.*

The information in this report that relates to Exploration Results is based on information compiled by Sarah James who is a Member of the Australian Institute of Geoscientists. Sarah James is a full-time employee of Encounter Resources Limited 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'. Mrs James consents to the inclusion in the report of the matters based on the information compiled by her, 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 confirms that it is not aware of any new data or information that materially affects the information disclosed in this announcement and previously released by the Company in relation to mineral resource estimates. All material assumptions and technical parameters underpinning the mineral resource estimates in the relevant market announcements continue to apply and have 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.

The information in this report that relates to Exploration Results in the ASX announcements dated 28 January 2010, 16 September 2010 and 27 June 2011 is based on information compiled by Mr. Peter Bewick who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Bewick is a holder of shares and options in, and is a director 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 2004 Edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Bewick 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.

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