

12 June 2024

## Orient Deep Diamond Hole Commences

Critical minerals and base metals explorer **Iltani Resources Limited** (ASX: ILT, "Iltani" or "the Company") is pleased to announce it has commenced drilling a deep diamond hole at its Orient silver-lead-zinc-indium project in northern Queensland, the deepest hole drilled to date at the project.

### HIGHLIGHTS:

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- Orient deep diamond hole (to ~750m vertical depth) will test a large-scale geophysical anomaly located beneath the Orient West silver-lead-zinc-indium mineralised system.
  - Iltani will also conduct a Downhole Electromagnetic (DHEM) survey on completion of the deep diamond drill hole.
  - The drilling and DHEM survey are supported by a \$299,000 grant awarded to Iltani through Round 8 of the Collaborative Exploration Initiative (CEI) under the Queensland Department of Resources' Industry Development Plan.
  - The CEI is designed to directly support innovative exploration activities aimed at the discovery of critical minerals in Queensland. The grant provides strong validation by the Queensland Department of Resources for the Orient Project and the work undertaken to date by Iltani to develop the Company's silver-indium discovery.
  - Results are pending for the remaining 10 reverse circulation drill holes completed at Orient West in May 2024.
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**Iltani Managing Director Donald Garner** commented:

*"We have started drilling the Orient deep diamond hole, and this marks an exciting step for Iltani. The diamond drill hole will be the deepest hole ever drilled at Orient and will seek to confirm the potential for a porphyry system at depth.*

*When the hole is completed, we will undertake a DHEM survey and this will enable Iltani to better understand the architecture of the Orient system, in particular the source of mineralising fluids and potential larger accumulations of mineralisation (copper and/or tin) associated with the porphyry at depth.*

*We expect the hole to take around 25 days to reach target depth and we cannot wait to see what is down there.*

*Meanwhile the results from our 10-hole reverse circulation program completed at Orient West in May are expected very soon, and we expect these will further build on our understanding of the grade and scale of the Orient system."*

Figure 1 Orient Deep Diamond Hole



**Background**

The Orient deep diamond drill hole is underway at Iltani’s Orient Project located on EPM 27223, approximately 20km west of the historic mining town of Herberton and 9km north of Irvinebank in Northern Queensland (refer to Figure 2).

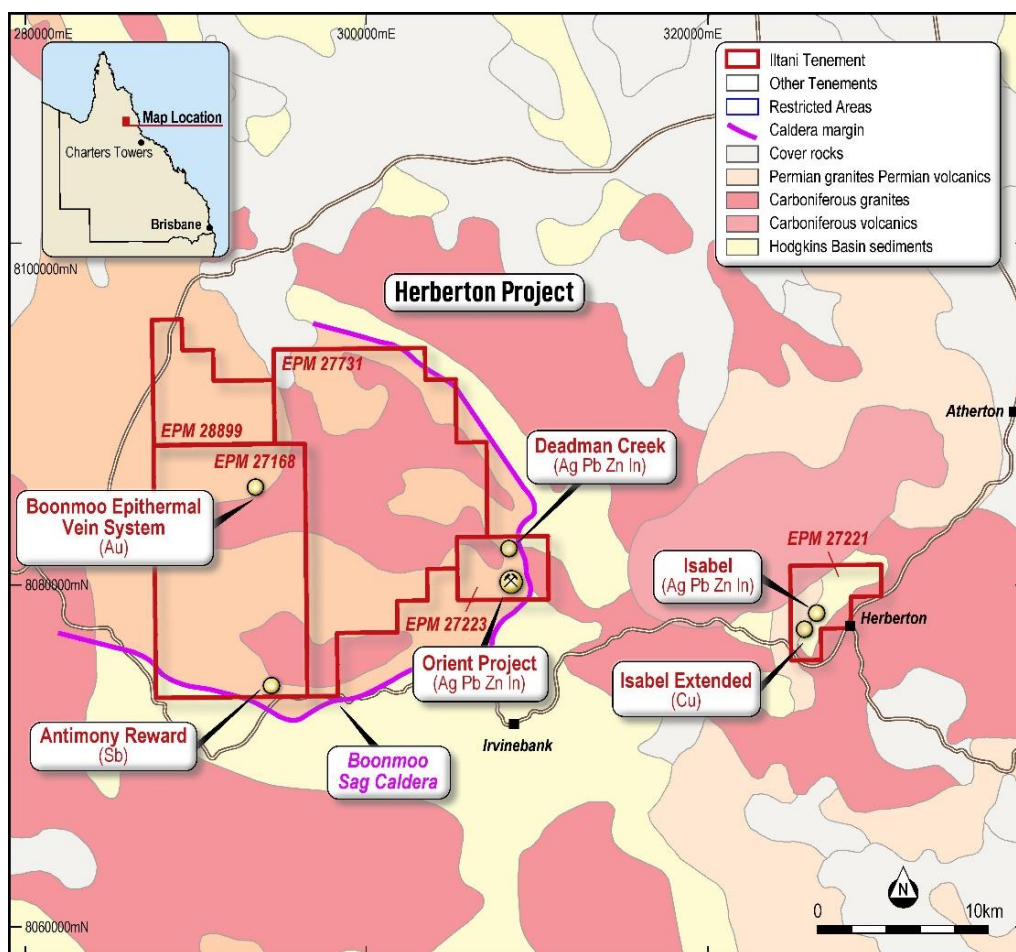
In line with the CEI operating to support ‘proof of concept’ exploration activities, the drill hole is designed to test the following concepts:

- Confirm the presence of vertical zonation in the vein system (mineralisation and alteration);
- Target the geophysical anomaly (large low resistivity, variable chargeable, magnetic body at depth that underpins (potentially sources) the shallower epithermal mineralisation at Orient); and
- Seek to determine the presence of a porphyry/igneous intrusion at depth and gain a better understanding of the likely fluid source for the epithermal silver-lead-zinc-indium mineralisation.

The diamond hole will be drilled to a vertical depth of 750m and is expected to take around 25 days to complete. When completed, it will be cased to allow a DHEM survey to be conducted.

The drill hole will confirm the potential for a porphyry system at depth, and combined with the proposed DHEM survey, will enable Iltani to better understand the architecture of the Orient system, in particular the source of mineralising fluids and potential larger accumulations of mineralisation (copper and/or tin) associated with the potential porphyry system at depth.

Figure 2 Orient Location and Regional Geology





**Authorisation**

This announcement has been approved for issue by Donald Garner, Managing Director.

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**About Iltani**

Iltani Resources (ASX: ILT) is an ASX listed company focused on exploration of base metals and critical minerals required to create a low emission future. It has built a portfolio of advanced exploration projects in Queensland and Tasmania with multiple high quality, drill-ready targets. Iltani has completed drilling at the Orient Silver-Indium Project, part of its Herberton Project, in Northern Queensland. The drilling has returned outstanding intercepts of silver-lead-zinc-indium mineralisation, positioning Orient as Australia’s most exciting silver-indium discovery.

Additional projects include the Northern Base Metal, Southern Gold and Rookwood Projects in Queensland plus the Mt Read Project, a highly strategic 99km<sup>2</sup> licence in Tasmania’s Mt Read Volcanics (MRV) Belt, located between the world-class Rosebery and Hellyer-Que River polymetallic (CuPbZn) precious metal rich volcanic hosted massive sulphide deposits.

Figure 3 Location of Iltani’s projects in Queensland and Tasmania

