

## Disruptor Prospect drilling targeting REE's scheduled in May

### HIGHLIGHTS

- 15-hole targeted drilling campaign to follow up elevated TREO's at "Disruptor Prospect" scheduled to start on 15<sup>th</sup> May 2023, six weeks after intercepting apatite rich "chlorite apatite hornblende rocks"<sup>1</sup> in drill hole TAM008
  - Allanite within rock chip TAM008-RC-B contained 20.3% TREO's<sup>2</sup> (La/Ce/Pr/Nd)<sup>3</sup>
  - Bottom of hole (40m) rock chips returned elevated TREO's (TAM008/TB050)
    - 626ppm TREO - TAM008-RC-B
    - 589ppm TREO - TAM008-RC-A
    - 29.4% average Magnet Rare Earth Oxides (MREO)<sup>4</sup>
  - Elevated apatite content is characteristic of carbonatites
  - Potential for both hard rock and clay hosted REE mineralisation
- Program designed to test zone of alteration around bifurcated regional fault and test the vertical extent of the potential carbonatite intersected in the March 2023 campaign.
- Assays from both the clays and hard rock intercepts will be tested for the full suite of elements including REE's with the aim of determining the presence of a hard rock and/or clay hosted rare earth mineralised system.
- Pinnacle's Great Southern Project(s) flanked by Chalice Mining (ASX:CHN) and Fortescue Metals Group (ASX:FMG)

Pinnacle Minerals Ltd (ASX: **PIM**) ("**Pinnacle**", the "**Company**") is pleased to announce that the Company is returning to the Disruptor Prospect on the 15<sup>th</sup> May 2023 with a multipurpose rig capable of both air-core (AC) and slimline reverse circulation (RC) drilling with the ability to attach a 3m diamond tail to take bottom of hole core.

The Disruptor Prospect is an area subject to major structural features (Figure 3). The major NE/SW regional fault bifurcates close to TAM008 where elevated TREO's (626ppm) were returned from a potential carbonatite in bottom of hole rock chips at 40m depth. The follow up 15-hole program to a maximum depth of 120m (Figure 1) is designed to test this bifurcated area where there appears to be a zone of alteration around the fault. The program will provide a cross-section of the major fault and test the NE/SW extensions and areas of alteration.

As part of the program, a validation hole will be drilled via "twinning" TAM008 (from the prior drill program) with the RC rig to test the vertical extent to a maximum depth of 120m of the potential carbonatite (Figure 2) intercepted in the original campaign in March 2023.

#### Pinnacle Minerals Managing Director, Nic Matich, commented:

*Having a rig return to the Disruptor Prospect so rapidly after the initial drilling campaign is a coup for the Company given tight availability and the impending cropping season. With a strong balance sheet, the Company has the flexibility to rapidly deploy resources on this high priority target without risking the development of our other key prospects.*

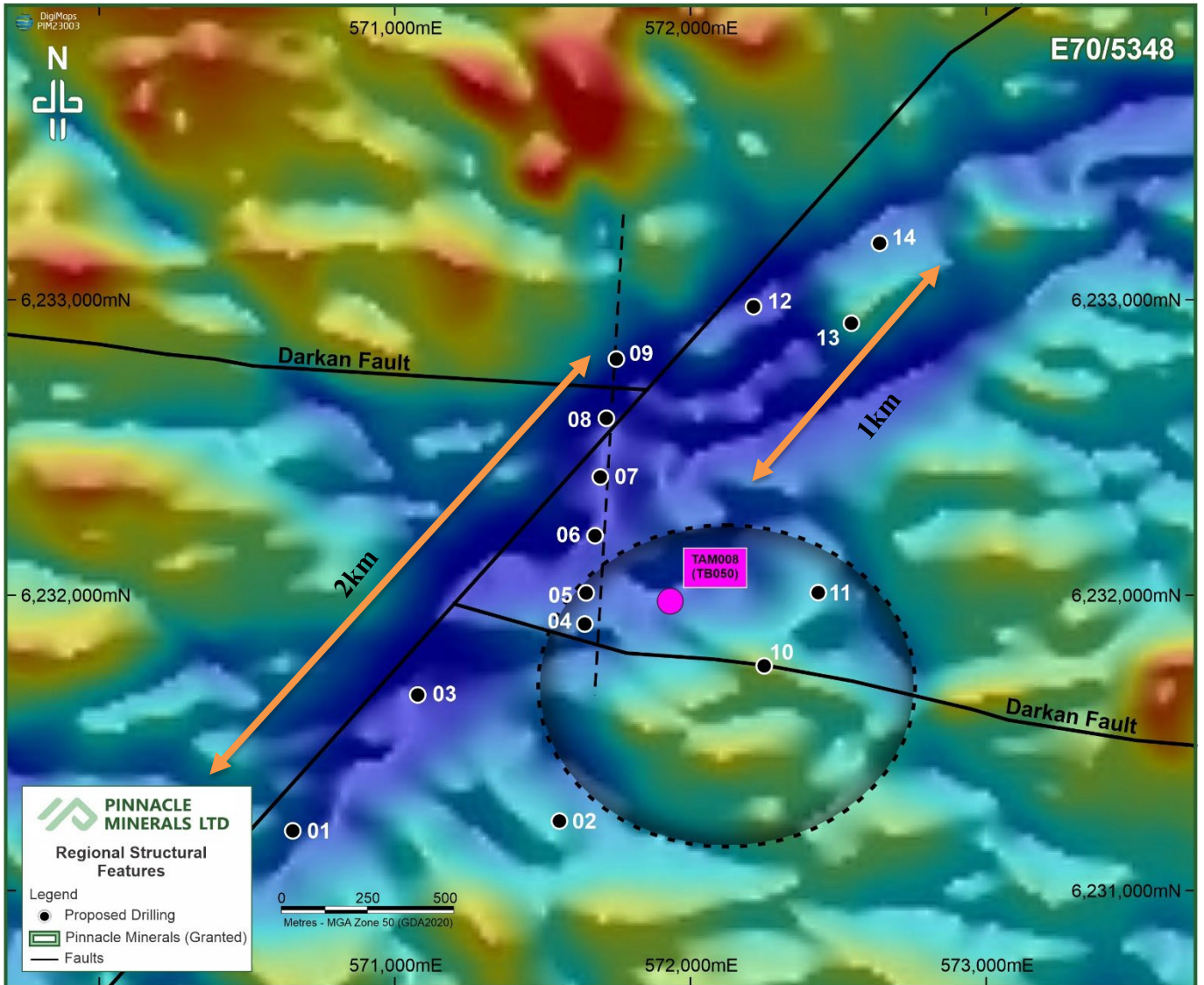


Figure 1: Proposed collars highlighting interpreted circular structure and drill collars.



Figure 2: Example of potential carbonatite (TAM008-RC-B).

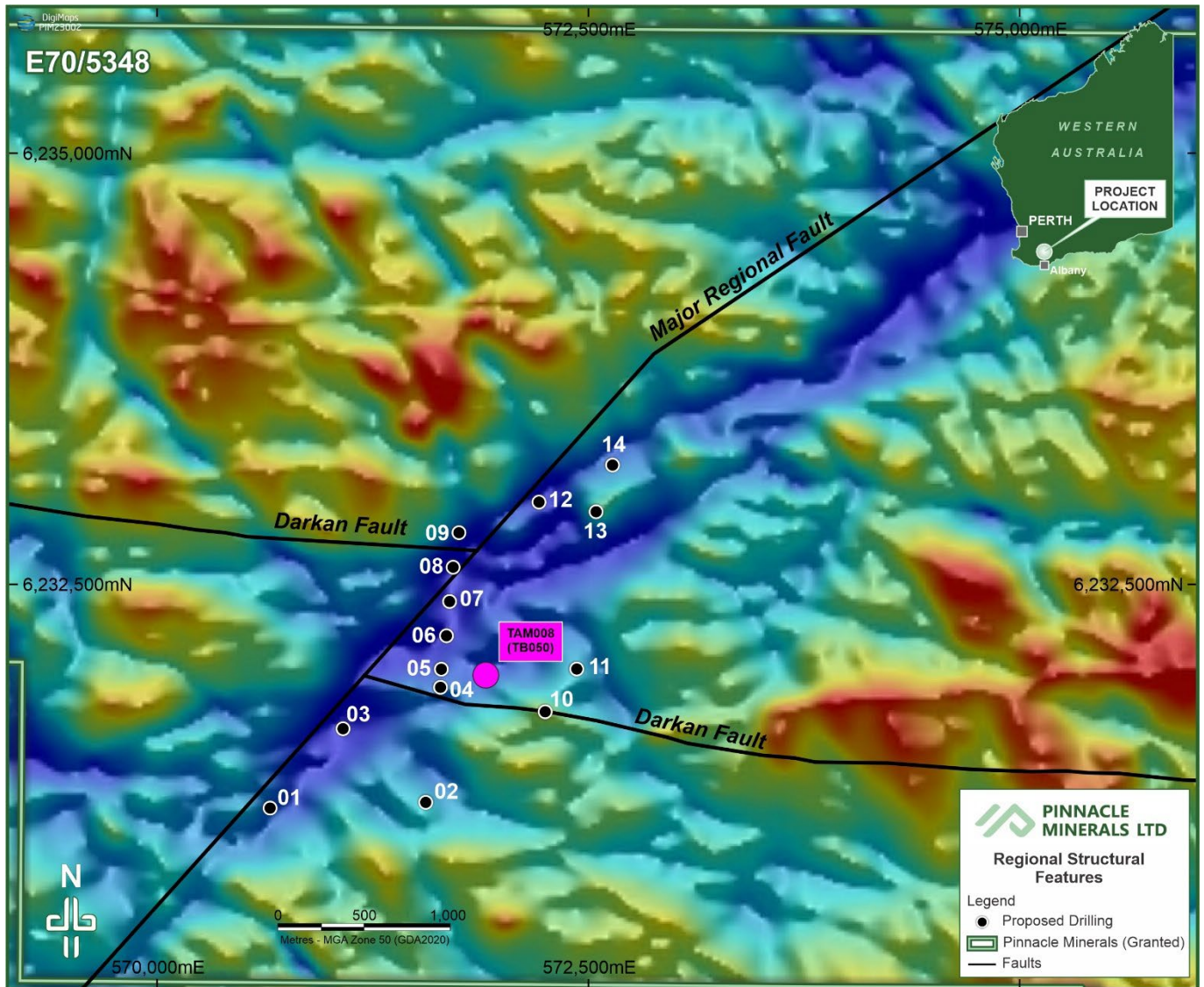


Figure 3: Disruptor Prospect highlighting regional magnetics, faults, and proposed drill collars.

This announcement has been authorised for release by the Board of Pinnacle Minerals Ltd.

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## About Pinnacle Minerals

Pinnacle Minerals Ltd (ASX: PIM) is an ASX listed technology minerals company focused on delivering shareholder value via the systematic exploration and development of its portfolio of kaolin, halloysite, battery metals and Heavy Mineral Sands prospective projects in Western Australia and South Australia. The Company is focused on delineating resources at its Bobalong and Holly Kaolin Projects in the Great Southern region of Western Australia whilst simultaneously expanding its' project portfolio through targeted acquisition of prospective ground. Drilling and a scoping study have been completed at Bobalong, with results indicating the potential for a high value direct shipping ore (DSO) product. The White Knight and Camel Lake Projects are strategically located adjacent to Andromeda Metals' (ASX: ADN) high-grade kaolin-halloysite discoveries in South Australia. The recently granted Latham and Tammin projects are adjacent to Chalice Mining Ltd (ASX: CHN) Mid-West Project and Anglo Americans' (LON: AAL) Southwest Yilgarn Exploration Project respectively, which have multi-element exploration potential.

## References

- 1 – Diamantina Laboratories Report Reference 24677, Dr Roger Townend
- 2 – Total Rare Earths Oxides (TREO) is the sum of the oxides of the light rare earth elements lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), and samarium (Sm) and the heavy rare earth elements europium (Eu), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb), lutetium (Lu), and yttrium (Y).
- 3 – Pinnacle Minerals ASX Announcement 19<sup>th</sup> April 2023
- 4 – Magnet Rare Earths Oxides (MREO) is the sum of the oxides of praseodymium (Pr), neodymium (Nd), terbium (Tb), and dysprosium (Dy)

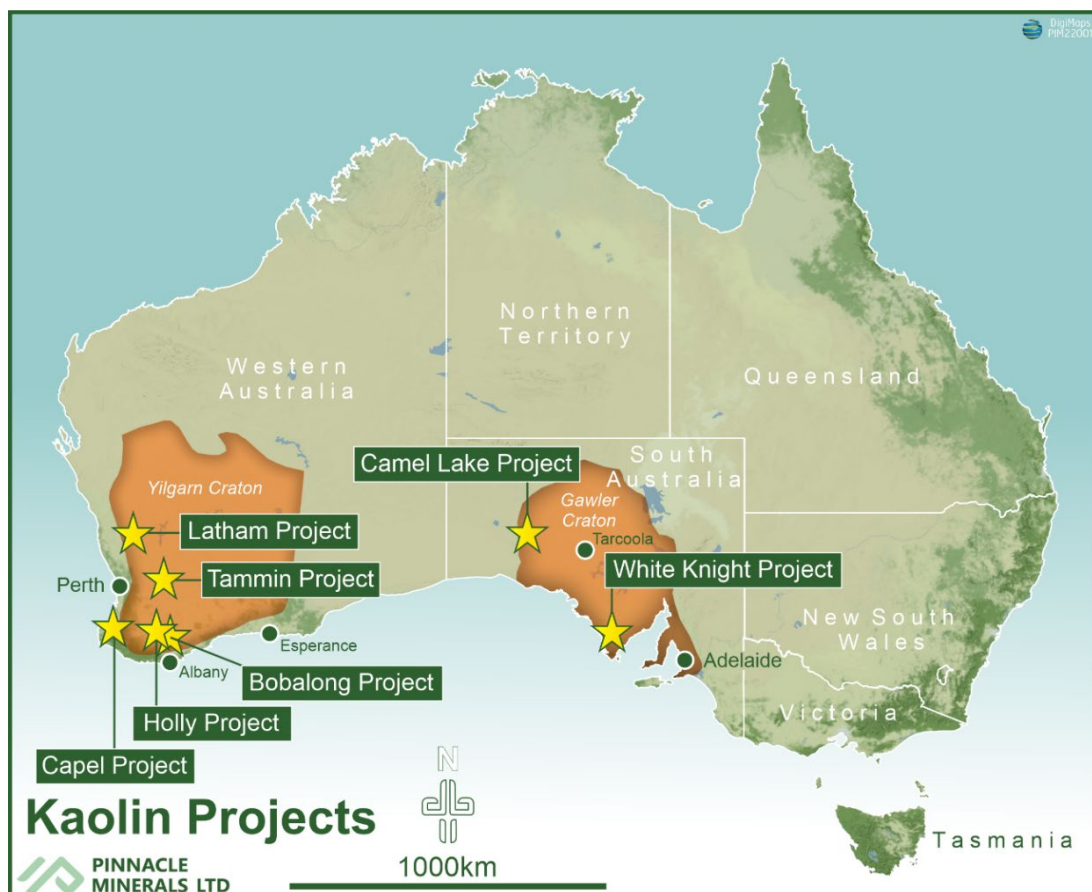


Figure 4: Pinnacle Minerals Projects' Location Map