

### Preparation for Drill Program in High-Grade Stacpoole Gold Zone

Mantle Mining Corporation Limited (ASX: MNM) ('Mantle' or 'the Company') provides the following update.

#### Highlights

- The high-grade Stacpoole gold zone identified as a near surface, untested reef with significant potential.
- Morning Star adit identified as an excellent drill platform to test the Stacpoole zone by diamond drilling.
- Rehabilitation of Morning Star adit is nearing completion to allow re-entry for diamond drilling.
- Preferred diamond drilling contractor confirmed with drilling expected to commence by end May 2017.

#### Testing of Stacpoole zone

As detailed by an earlier ASX release (refer ASX Release dated 13 February 2017 "*High-grade Stacpoole gold zone at Morning Star*", referred to below as the "ASX Release"), the Stacpoole zone has been identified by a number of previous Morning Star operators as a high priority target, however it has never been fully tested despite having been repeatedly identified as such.

The structural reinterpretation and meticulous historical review undertaken by Mantle and its technical team, which formed the basis for the ASX Release, compiled all the information on the Stacpoole zone over the history of the mine, confirmed that the Stacpoole zone is a highly prospective high-grade gold target that required testing and may well be easily extracted – refer to Figure 1 (an extract from ASX Release).

This work also identified that the Morning Star adit is well placed above the reef, on its eastern flank, which is the highest priority target for high grade mineralisation based on a comparison with other similar zones in the mine (e.g. Whitelaw's). The eastern flank is shown in Figure 1 in the hotter, orange to red colour (indicating the highest Gram Au multiplied by-Metre vein thickness) which is potentially amenable to profitable mining, based on a comparison with previously mined high grade gold reefs at Morning Star.

#### Morning Star Adit Refurbishment

Refurbishment of the Morning Star adit is well underway and is tracking to to forecast. The adit will provide a drill platform for the Stacpoole zone, as well as providing the main exhaust ventilation airway and the second egress for the mine.

Refurbishment of the adit has involved rock bolting, repairing timber sets, limited meshing, hand scaling and other improvements to facilitate safe access and drilling activities underground.

Overseen by Mantle’s operational team, this work is being undertaken by experienced handheld miners who are familiar with the Morning Star and the nearby A1 gold mines.

Figure 1. Perspective view looking NW, showing the position of the Stacpoole zone and underground development at Morning Star. Colour contours of thickness show extensive areas of greater than 2 metres thickness for the mineralised zone. Inset shows the likely position of the high grade target zone for Stacpoole zone based on the geometry of the reef compared to known mineralised reefs.

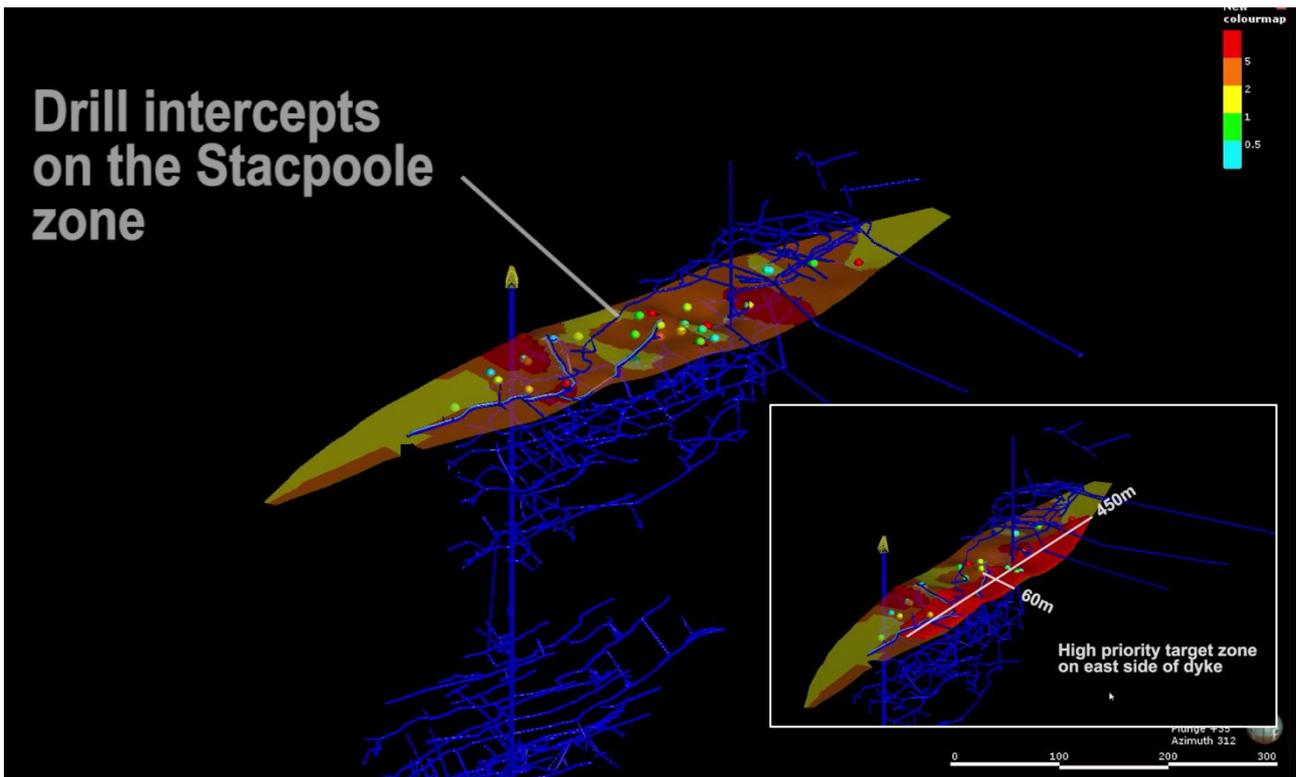


Figure 2. Miners repairing timberwork in the Morning Star Adit. 8 May 2017

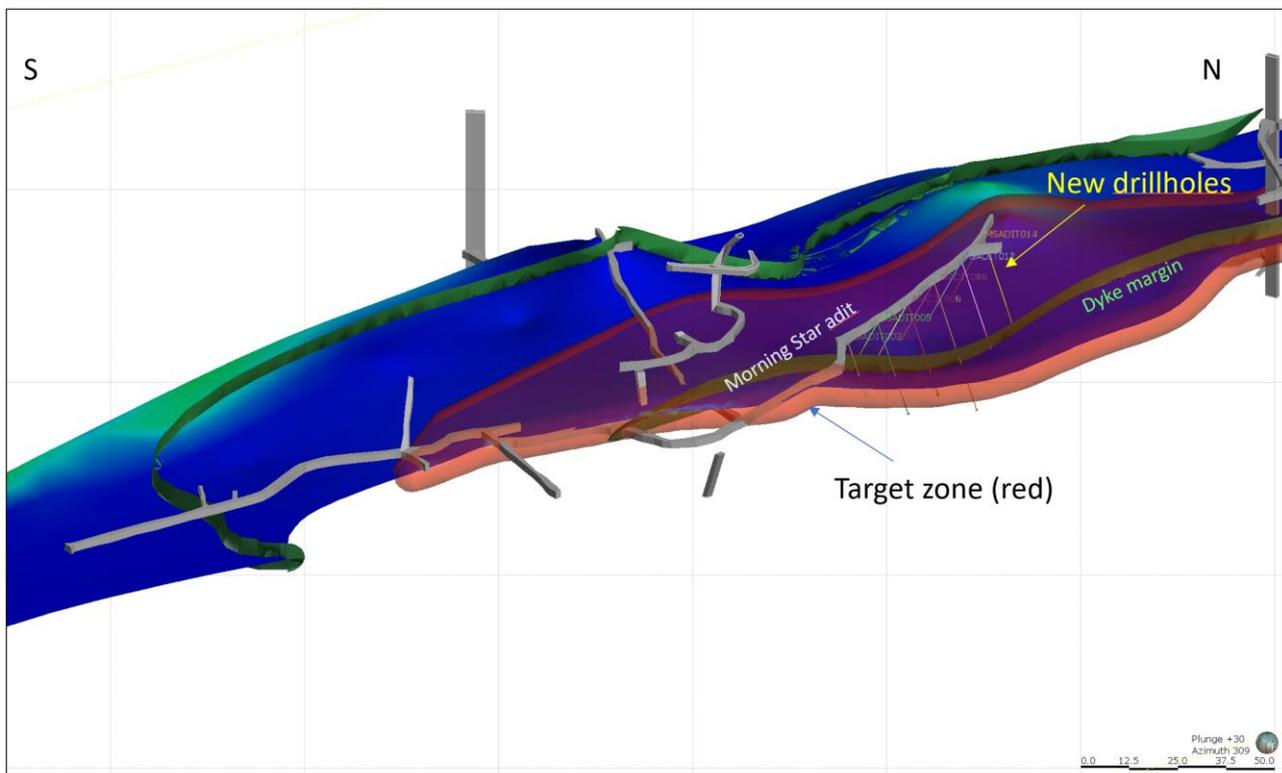


### Preparation for Drill Program

The Company has completed a tender process amongst a number of diamond drilling contractors, with the preferred driller inspecting the drill locations and confirming their ability to drill in the Morning star adit.

The preferred diamond driller will be mobilised onto site by the end of May 2017. An initial phase of 15 drill holes will be driven from the northern part of the adit where the interpreted high grade gold target zone is most easily tested. Diamond drilling is expected to take in the order of 3 to 4 weeks, followed by assaying and geological interpretation. This drill program may be followed by a subsequent phase of drilling in conjunction with preliminary mine planning and permitting.

*Figure 3. 3D view of Morning Star adit and Stacpoole zone looking NW, showing the interpreted target zone and new planned drillholes to test the zone.*



CEO Tom de Vries says *“This drill program follows the extensive geological work undertaken by Dr Valenta and his team, which established the existence of multiple targets for high grade gold mineralisation on the Stacpoole zone. The zone has the potential for high grade gold in mineable widths; it can be easily drilled; is close to surface, and as such is worthy of a high priority effort to add further value to the Morning Star Mine. We expect this drill program to increase the confidence regarding the size and potential viability of the Stacpoole zone for further drilling leading to bulk sampling for trial mining.”*

**About Mantle Mining:**

Mantle is focused on the return to production of the Morning Star mine - **an advanced high-grade gold exploration play, with significant infrastructure, tenement footprint and prospectivity, well positioned for near-term trial mining**

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