



VICTORIAN PORPHYRY COPPER GOLD TENEMENTS GRANTED

ASX ANNOUNCEMENT

13 AUGUST 2013

Mantle Mining Corporation Limited (ASX: MNM) is pleased to report that three exploration licences highly prospective for porphyry copper, copper-gold, silver and base metals deposits have been granted:

Highlights

- Mantle's Haunted Stream Gold and Copper Project is located in the southern extent of the Lachlan Fold Belt (LFB) in Victoria's East Gippsland region. The LFB is an extensive zone covering central and southern New South Wales and north eastern Victoria (Figures 1 and 2).
- The LFB contains major granitic intrusions, and several large deposits of base and precious metals. In New South Wales, the large Northparkes and Cadia/Ridgeway mines are located in the LFB in geological settings very similar to Mantle's tenements.
- Mantle has begun detailed office based studies of historical mining and exploration on these new tenements in order to define high priority exploration targets (Figures 3, 4, 5 and 6).
- The Buchan East tenement is prospective for stock-work systems similar to those associated with Volcanic Hosted Massive Sulphide (VHMS) deposits. Deposits of this type include Xstrata's massive Kidd Creek mine in Ontario, Canada and the Mt Lyell mine in Tasmania (MNM ASX Release: 12 April 2013).
- Within the Mt Elizabeth tenement area, Mantle has identified a number of high quality targets to test, including the following, which are considered as being well within the "advanced exploration" category (Figure 7):
 - Mt Elizabeth Caldera Complex (MECC) is a major circular volcanic feature containing extrusive volcanic and volcanoclastic units, with excellent potential for porphyry copper-gold style mineralisation (Figure 8).
 - Dogwood / Red Wattle prospects were considered by CRA and the Geologic Survey of Victoria (GSV) as representing the upper portions of a large porphyry copper-gold system however it appears that historic drilling did not target the best geochemical and geophysical anomalies (Figures 9, 10 and 11).
- Mantle is currently reviewing the third tenement, Mt Nugong, and refining targets on all three tenements for initial ground reconnaissance and field proofing.

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Background on the Haunted Stream Gold and Copper Project

Mantle's Haunted Stream Gold and Copper Project is located in the southern extent of the Lachlan Fold Belt (LFB) in eastern Victoria. The three new tenements; EL 4785 (Mt Nugong), EL 4786 (Mt Elizabeth) and EL 4819 (Buchan East) are highly prospective for porphyry copper-gold, epithermal gold and structurally controlled gold and base metals deposits typical of the major deposits recently discovered in the LFB (Figures 1 and 2).

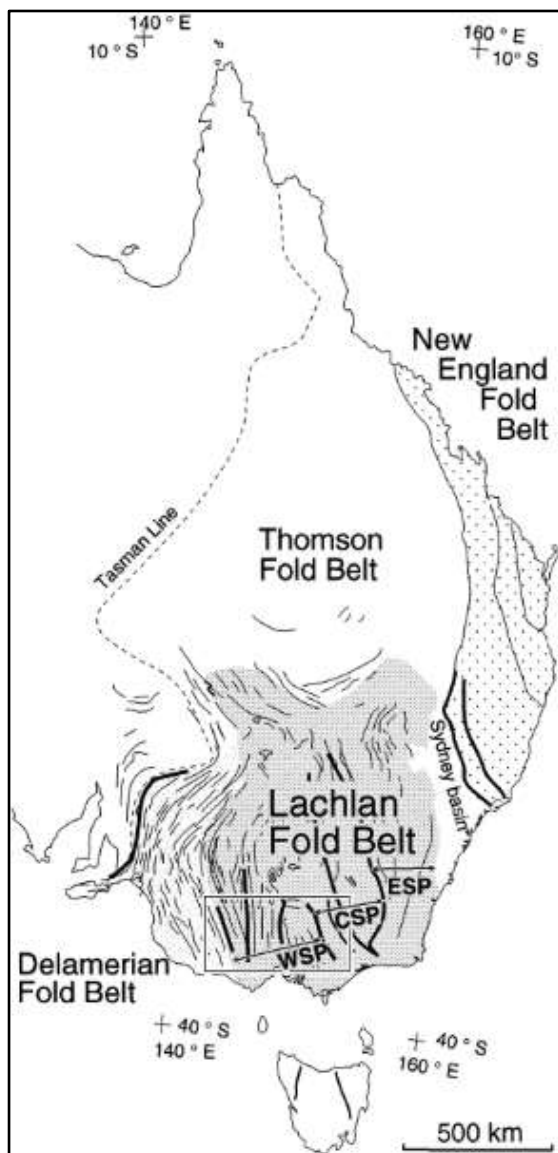


Figure 1: The Lachlan Fold Belt.

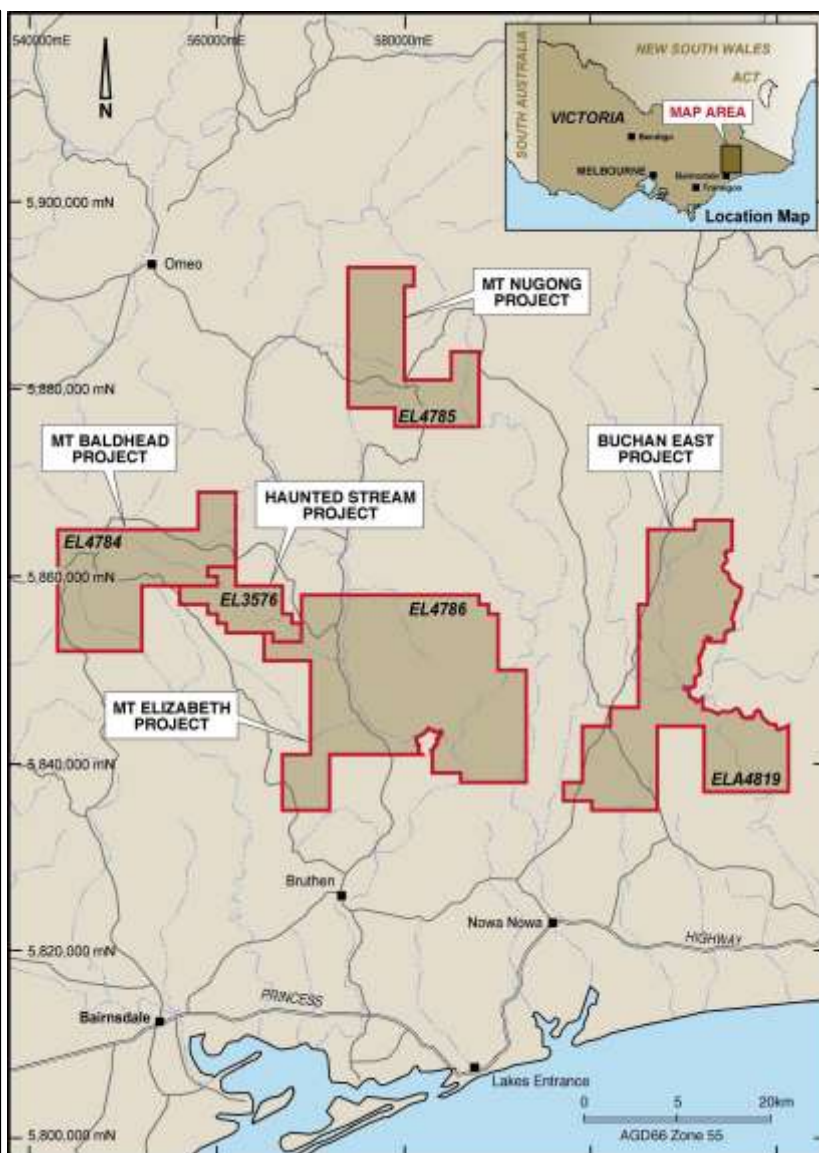


Figure 2: Haunted Stream Gold and Copper Project location.

The LFB is an extensive zone covering central and southern New South Wales and north-eastern Victoria. The area contains major granitic intrusions, and several large deposits of base and precious metals. Within the LFB, large porphyry copper-gold systems formed within the Ordovician basement during extensive volcanism lasting through the Silurian and early Devonian. In New South Wales, the large Northparkes and Cadia/Ridgeway mines are located in the LFB in geological settings very similar to Mantle's tenements. The Victorian extension of the LFB, unlike in New South Wales, is poorly explored and remains highly prospective. To the north of Mantle's tenements, Dart Mining and Independence Group have had recent exploration success identifying porphyry base and precious metals deposits.

Mantle selected these tenements based on the release by Energy and Minerals Victoria of its Victorian Initiative for Minerals and Petroleum (VIMP) 200 m line spaced airborne magnetics and radiometrics dataset. The VIMP geophysical initiative provided a new generation of high quality, detailed data not available to past explorers. Mantle combined this new level of data with a review of historical mining and regional exploration to target tenements with highly prospective geology, geophysics, geochemistry, prior drilling and historically high grade mines.

The company continues to explore the previously granted tenements EL 3576 and EL 4784 and is now progressing detailed office based studies of historical mining and exploration on the three newly granted tenements in order to define high priority targets for initial field proofing (Figures 3, 4, 5 and 6).

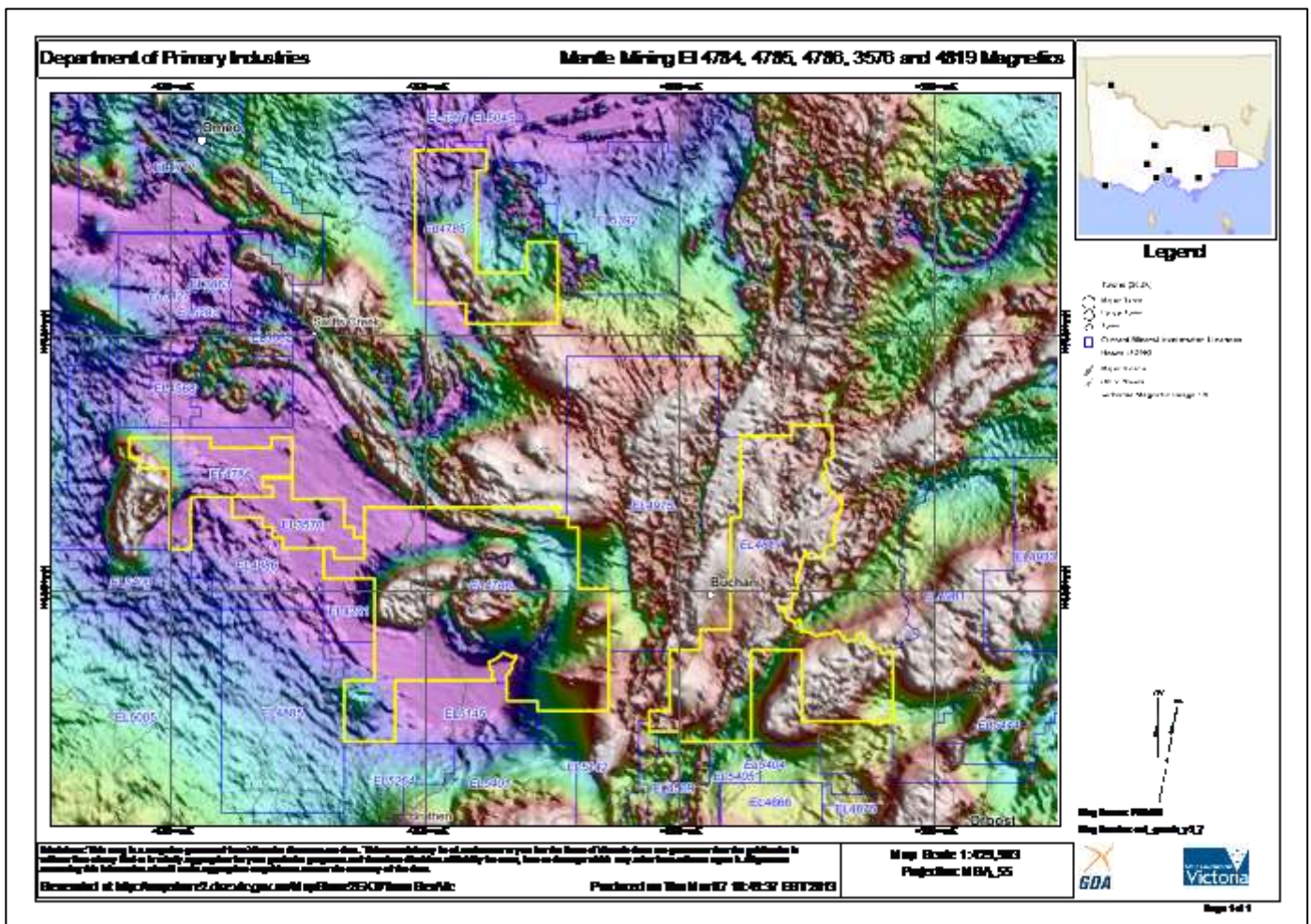


Figure 3: Mantle's Haunted Stream Copper Gold Project tenements on VIMP aerial magnetics.

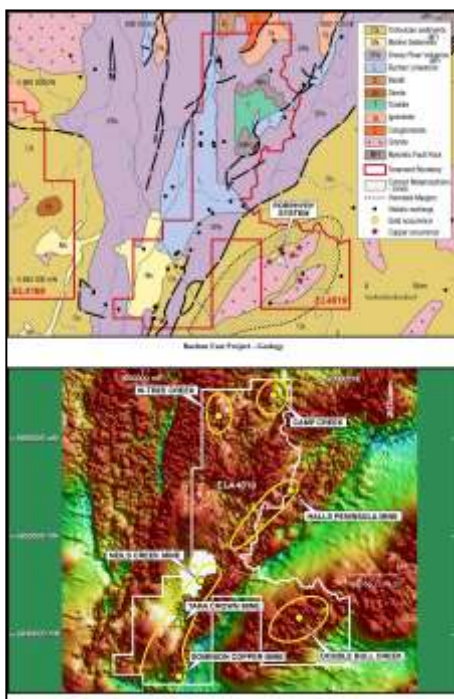


Figure 4: Buchan East tenement on geology and aeromagnetics.

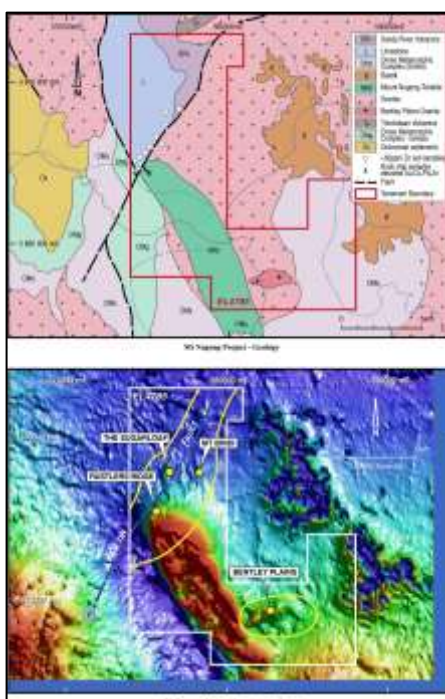


Figure 5: Mt Elizabeth tenement on geology and aeromagnetics.

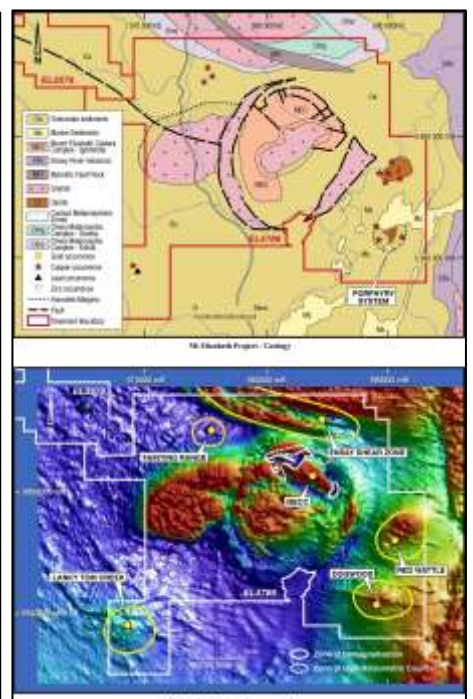


Figure 6: Mt Nugong tenement on geology and aeromagnetics.

Background on EL 4786 Mt Elizabeth

The Mt Elizabeth tenement covers 495km² and is located 35km north of Bairnsdale and immediately south east of Mantle's Haunted Stream Prospect. Whilst significant exploration work has been undertaken, there has been a lack of systematic and coordinated effort. Within the tenement area Mantle has identified a number of high quality targets to test, and the area is considered well within the "advanced exploration" category (Figure 7).

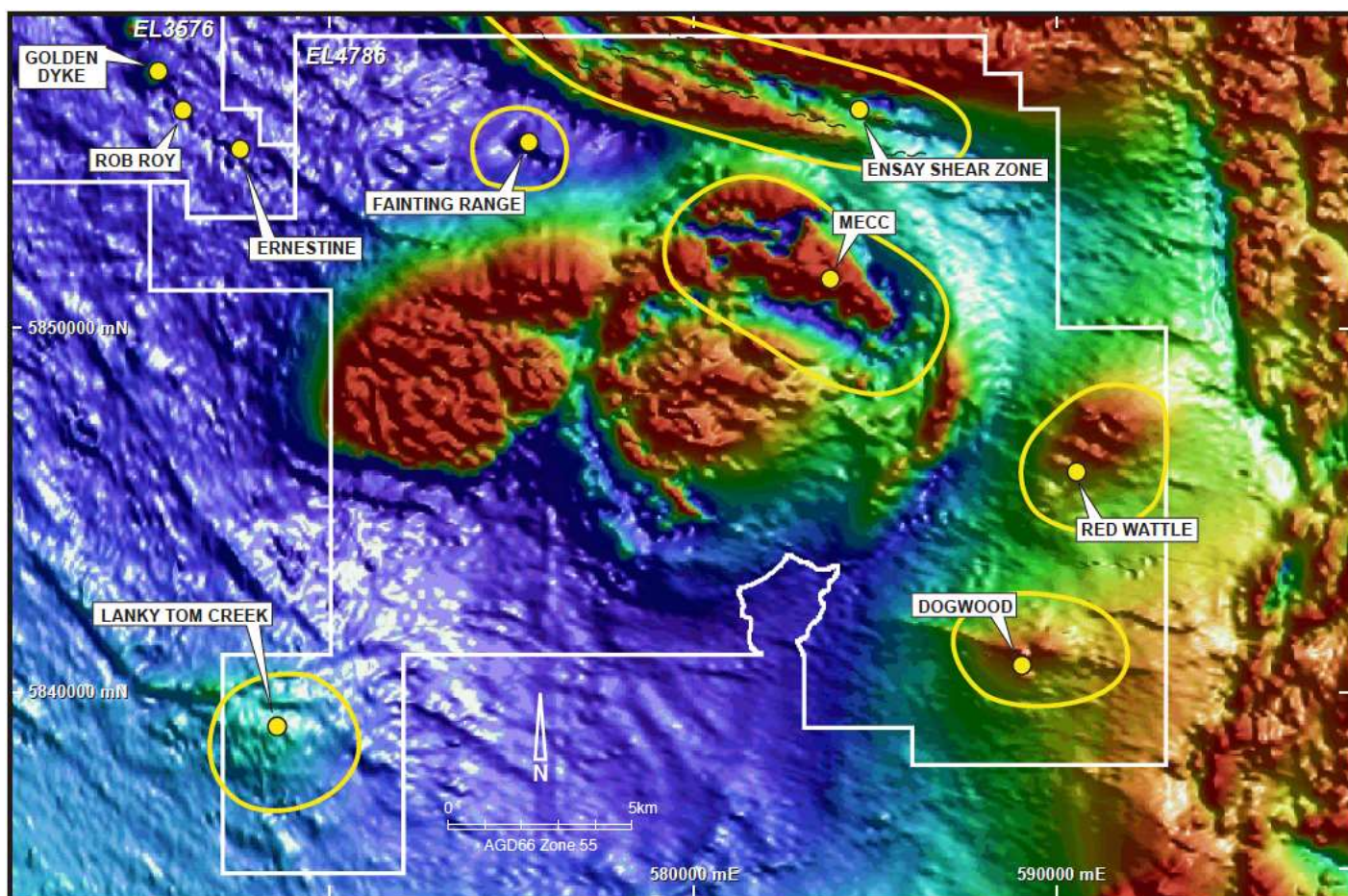


Figure 7: Mt Elizabeth tenement with high quality prospects on VIMP aerial magnetics.

The Mt Elizabeth Caldera Complex (MECC)

The Mt Elizabeth Caldera Complex (MECC) is a major circular volcanic feature containing extrusive volcanic and volcanoclastic units, with excellent potential for porphyry copper-gold style mineralisation (Figure 8).

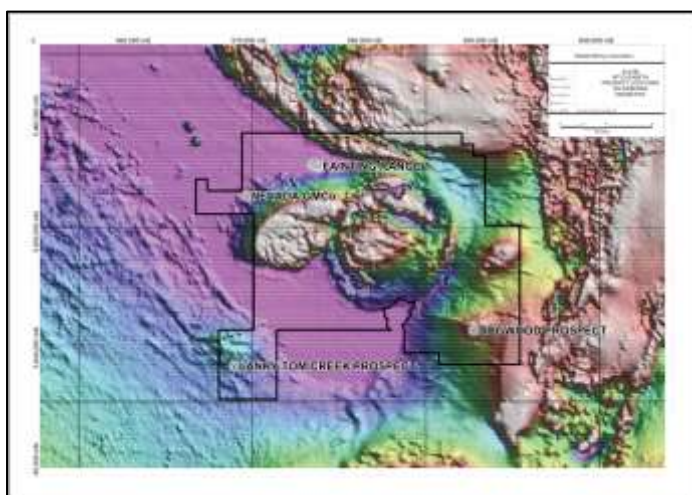


Figure 8: Large circular Mt Elizabeth Caldera Complex.

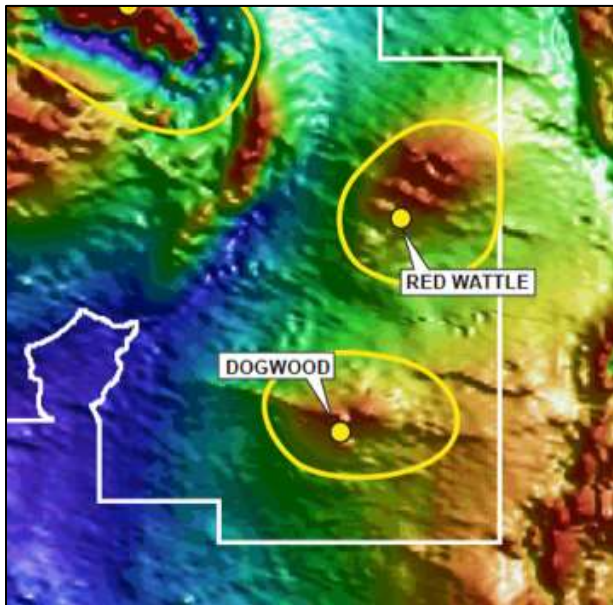
A number of later granitoids are also present, associated with the collapse of the caldera.

The collapsed caldera and environs have excellent potential for porphyry copper-gold style as well as VHMS style mineralisation. The MECC is a huge target with a massive alteration zone over a radiometric high and a coincident magnetic low.

It has all of the indicators important for VHMS and porphyry hosted gold and base metals deposits including radial arc ring faults, major regional structures (Kiewa Fault), caldera resurgence and late stage intrusives.

The Dogwood / Red Wattle Prospects

Copper and gold mineralisation was first discovered at the Dogwood and Red Wattle prospect areas in the 1980's. Subsequent work by CRA in the early 1990's led to recognition that the mineralisation represented the upper portions of a large porphyry copper-gold system (Figure 9).



The porphyry is located at the intersection of two interpreted faults, and contains copper-molybdenum mineralisation. In 1994 CRA conducted a gridded soil-sampling program followed up with a drilling program. This work led to the delineation of a supergene chalcocite (copper rich) blanket.

The drilling returned a best intercept of 2m @ 7.9 g/t gold with anomalous copper and the mineralisation was recognised as the upper levels of a porphyry copper-gold system. However, a subsequent review of the prospect by the Geological Survey of Victoria (GSV) concluded that the drilling did not go deep enough to test the intrusive aureole.

The prospect covers a very large area and Mantle benefits from a large amount of pre-existing soil geochemistry, rock-chip analyses, geophysical (Induced Polarisation (IP) and ground magnetic) surveys and drilling data.

Figure 9: Dogwood and Red Wattle Prospects on aerial magnetics.

It is noteworthy that CRA's drilling was done off existing bush tracks which essentially closely followed the topographic highs (ridges) as opposed to targeting what are now known to be the best geologic targets (Figure 10).

Review by Mantle of the more recent VIMP geophysical data suggests that Dogwood is underlain by a westerly trending elongate intrusive, peaking in an area slightly north of CRA's work. It appears that the best geochemistry, coincident with an IP anomaly, was not drilled and, as a result, Dogwood remains a standout target (Figure 11).

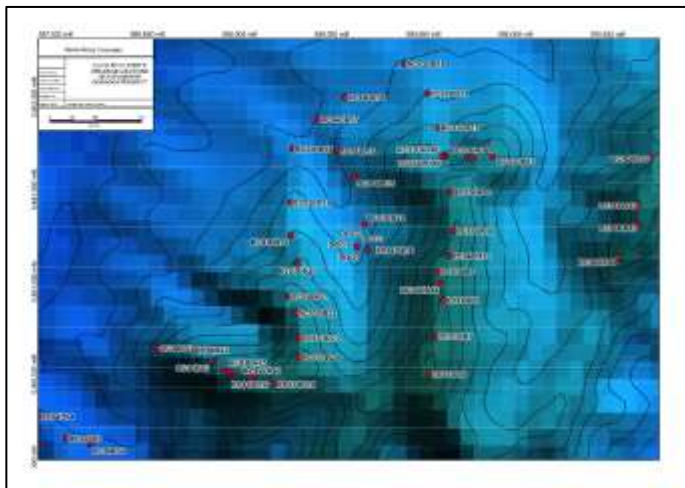


Figure 10: Dogwood drilling on topographic image.

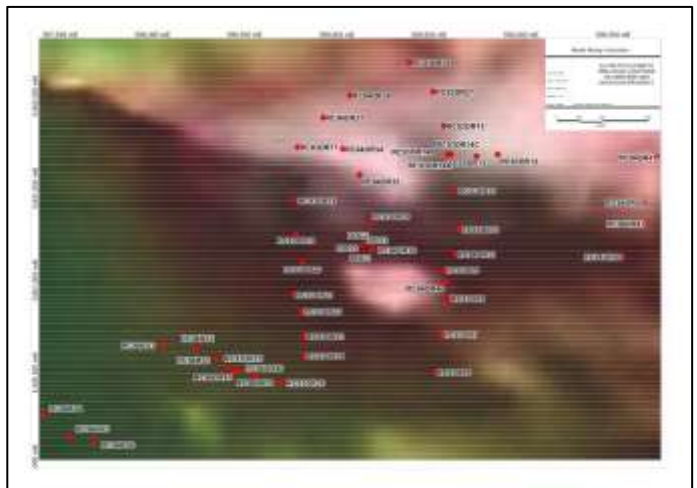


Figure 11: Dogwood drilling on geophysics.

Competent Person's Statement.

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Stuart Moore, who is an Employee of Mantle Mining Corporation Ltd. Mr Moore is a Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Moore consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.