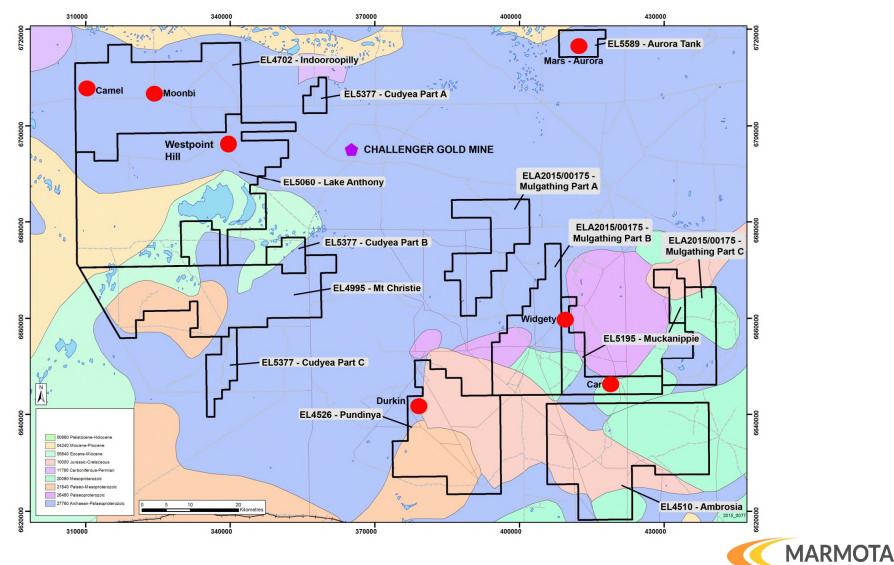


# CALCRETE SAMPLING -GAWLER CRATON GOLD PROJECT

Dan Gray Senior Project Geologist

## **Westpoint Hill Location**



### Why calcrete sampling?

- Effective exploration tool in this region.
- Challenger Gold Mine discovered.
- Calcrete is a
  - calcium rich sedimentary rock type
  - typically forms just below the surface.
- Occurs in a variety of forms
- Best is nodular or massive



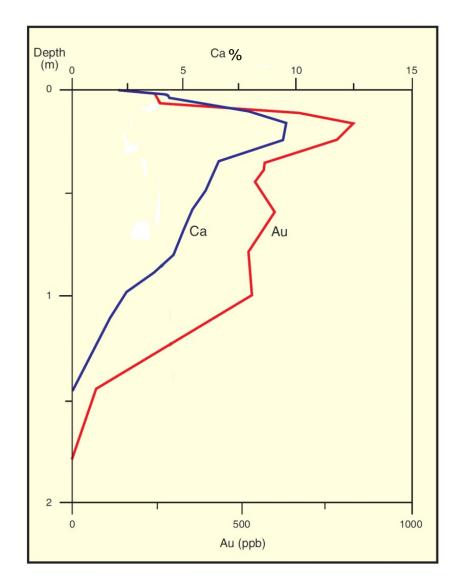


Above: nodular calcrete

Left: massive calcrete



#### **Amount of calcium important**



Calcrete profile (0-2m) above known gold mineralisation Diagram adapted from MESA Journal 5, April 1997









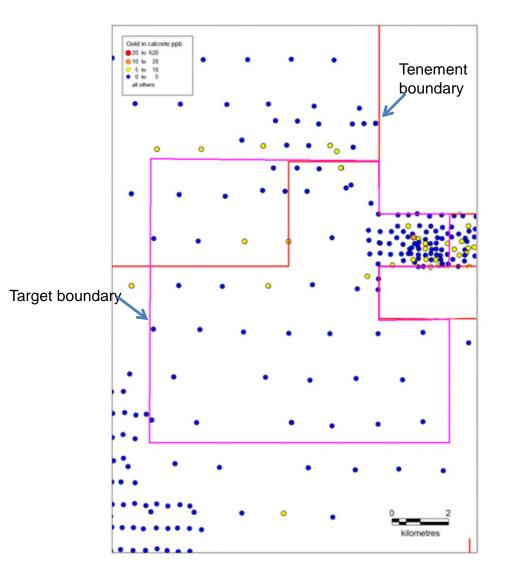


Video demonstration of Marmota Energy's calcrete sampling



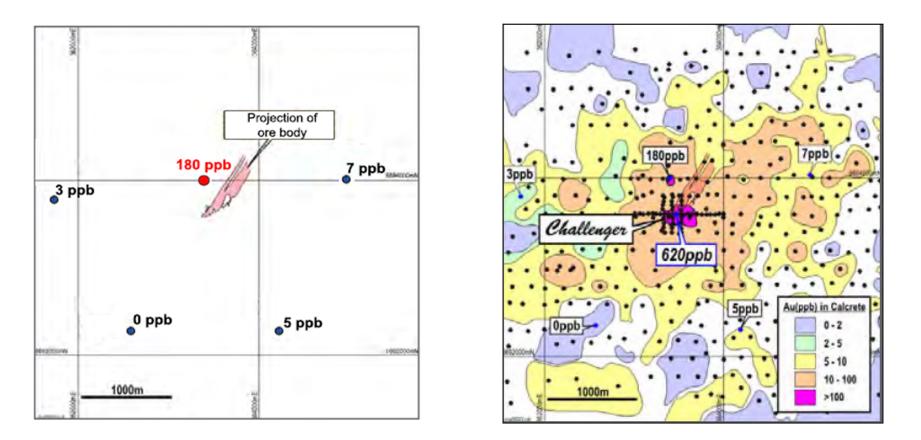
Video demonstration of Marmota Energy's calcrete sampling





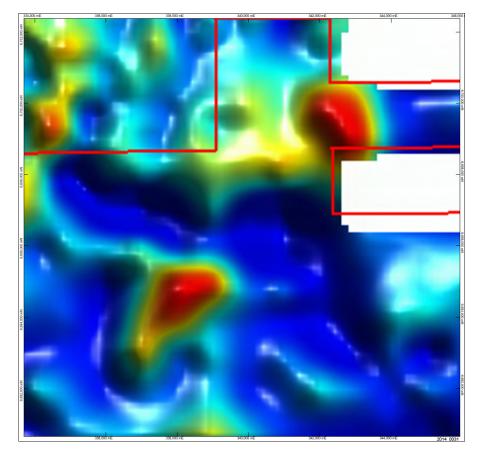
- Historic calcrete results in the area were not encouraging (1.6km grid)
- Previous focus to the NE within the target area
- Interesting unexplained gravity and magnetic anomalies under cover
- But could they have missed something?



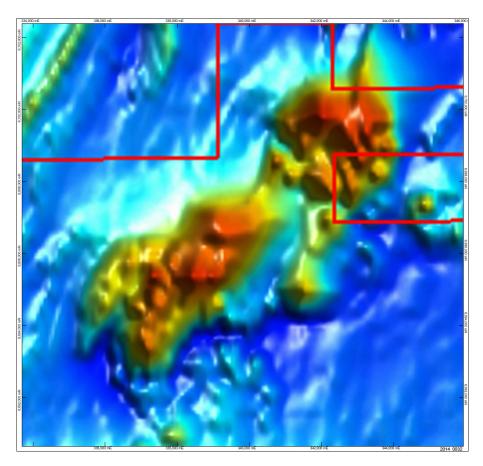


Source: Wills, K and Edgecombe, D - 2014 - Discovery of the Challenger Gold Mine - Adelaide Conference, SA Branch AIG





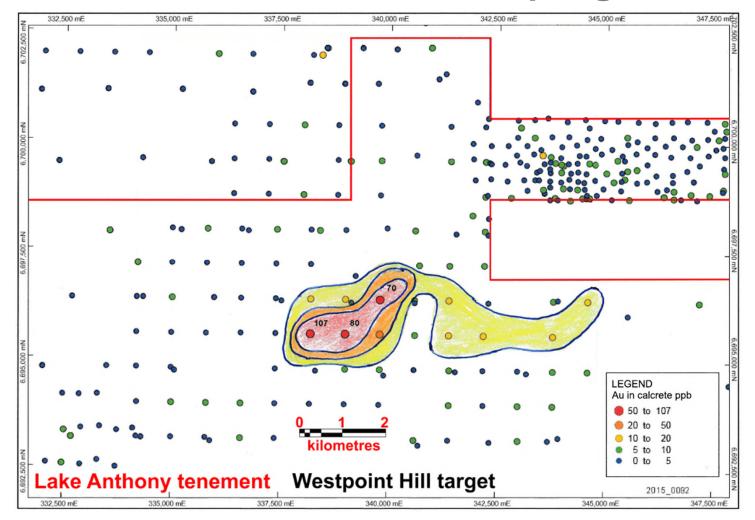
Gravity (1km spaced grid Marmota Energy data 2013)



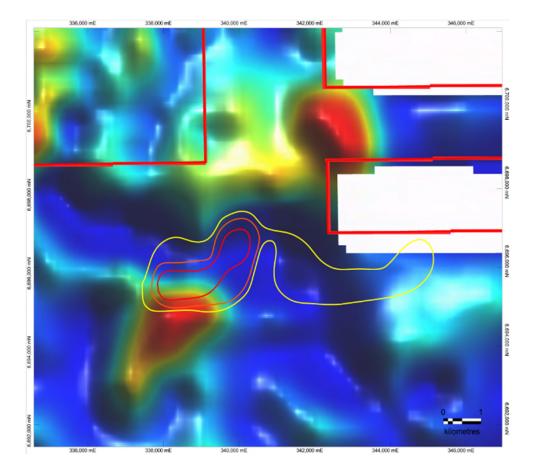
Magnetics (regional airborne 400m line spaced data)

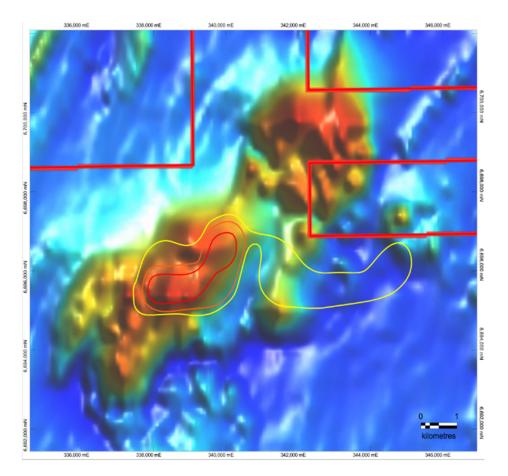


### Marmota calcrete sampling







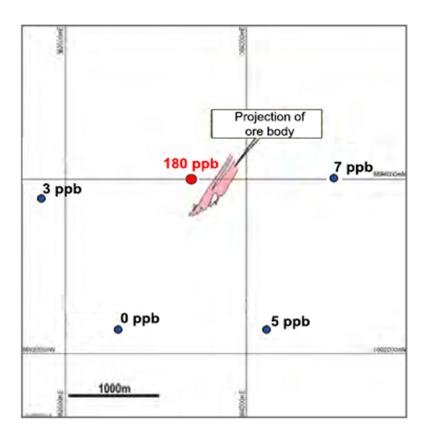


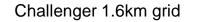
Gravity

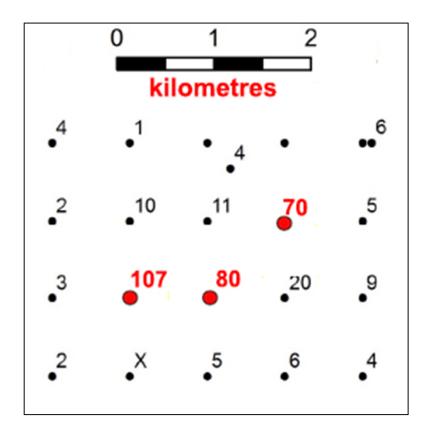
Magnetics



#### **Similarities with Challenger exploration**



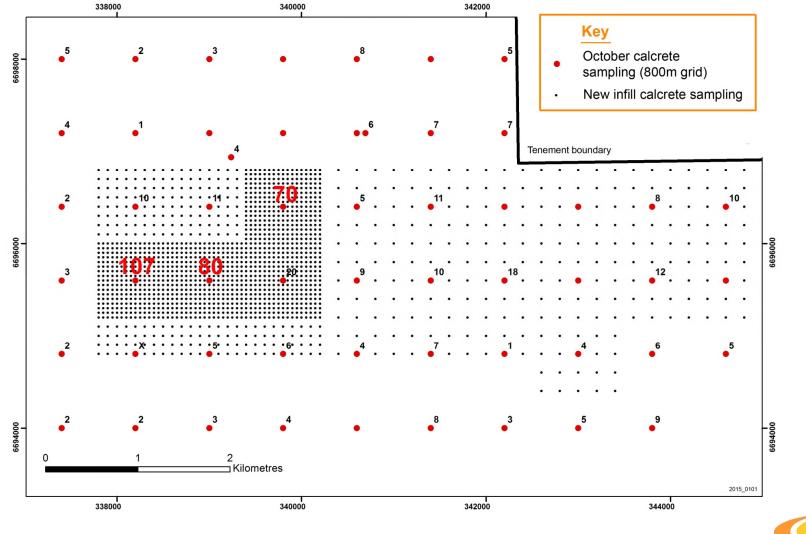




Westpoint Hill 800m grid



#### **Current infill calcrete sampling**





## Westpoint Hill target







#### www.marmotaenergy.com.au

#### **Competent Persons Statement**

The information in this presentation that relates to Exploration Results and Mineral Resources is based on information compiled by Dan Gray as Senior Project Geologist of Marmota Energy Limited who is a member of the Australasian Institute of Geoscientists. He has sufficient experience which is relevant to the styles of mineralisation and types of deposits under consideration and to the activities being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Gray consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

