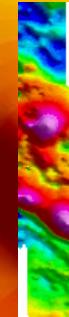
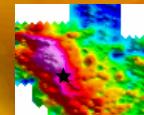
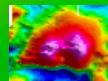


Wonarah Ground Magnetics

July 2010

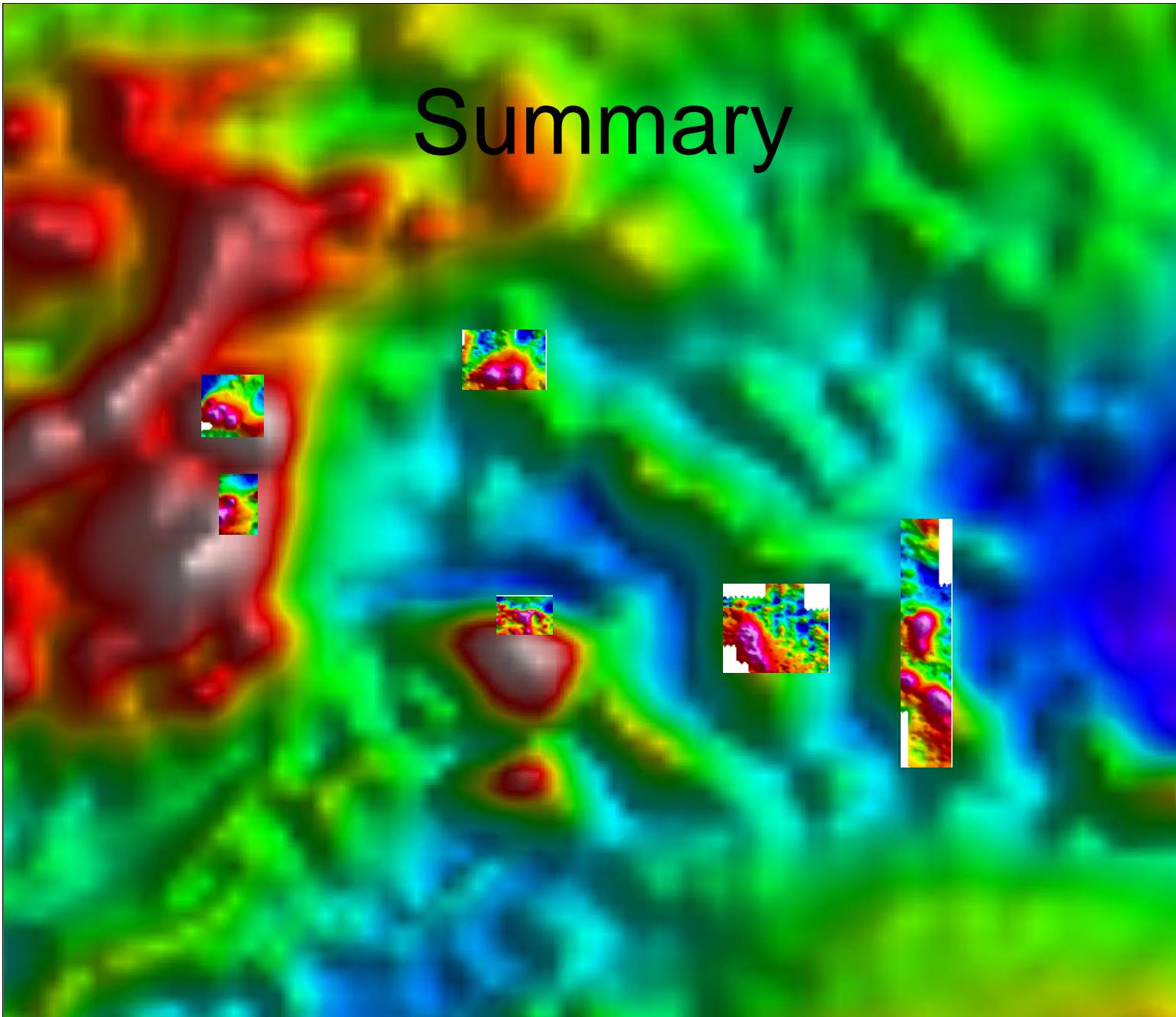


Preliminary Magnetic Modelling

By Kate Godber for Russell Fulton, MineMakers Ltd

Ground TMI images superimposed on the regional gravity field

Summary



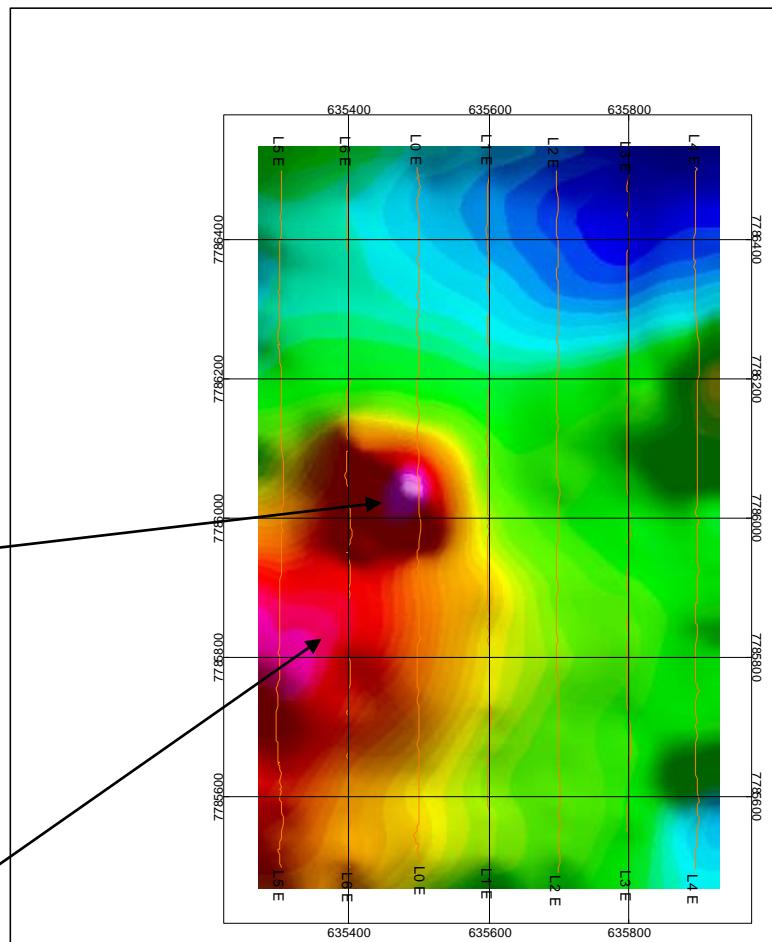
Ground RTP images superimposed on the regional reduced to pole aeromagnetics

Summary

- 6 regional magnetic anomalies were mapped with ground magnetics on 100m spaced lines
- The magnetic maps generally show various narrow magnetic peaks superimposed on regional basement responses
- Rough, unconstrained 2D models on this data indicate magnetic sources between 10m and 500m deep.
- The ground magnetic data is a significant improvement on the regional aeromagnetics, showing fine scale structure and several very near surface magnetic sources
- Without drilling or known rock susceptibility constraints, the magnetics modelling should be only considered a rudimentary guide of 'depth to source', and not a true geological section
- As drilling and rock susceptibility measurements become available, incorporating them into the modelling will allow much more accurate geophysical models

PPR012

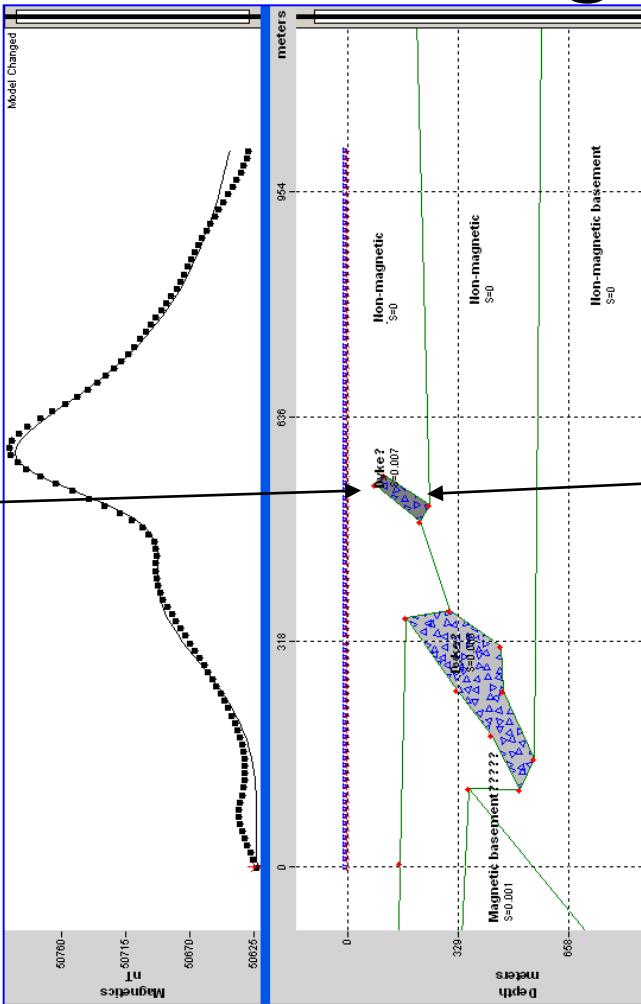
- Small magnetic peak superimposed on large basement magnetic source
- ~175nT amplitude
- Modelling indicates a confined source with minimum depth ~80m
- Southerly dip or plunge?
- Low priority due to relatively large depth to top
- Modelling indicates the basement structure > 100m deep, offset south from the small magnetic source. May interconnected



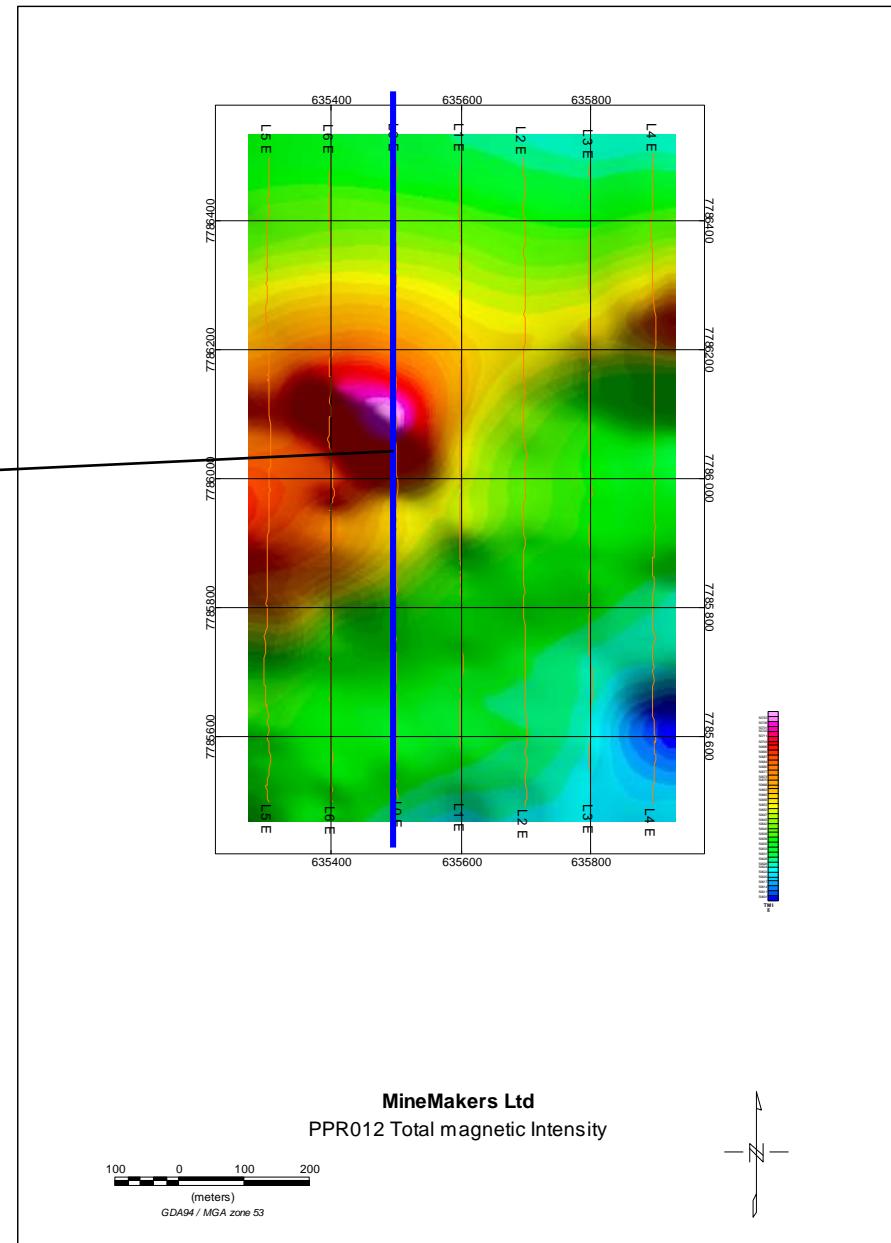
MineMakers Ltd
PPR012 Reduce to pole magnetic map

PPR012 Modelling

Depth to peak anomaly: >80m
Position:
635484mE,
7786041mN

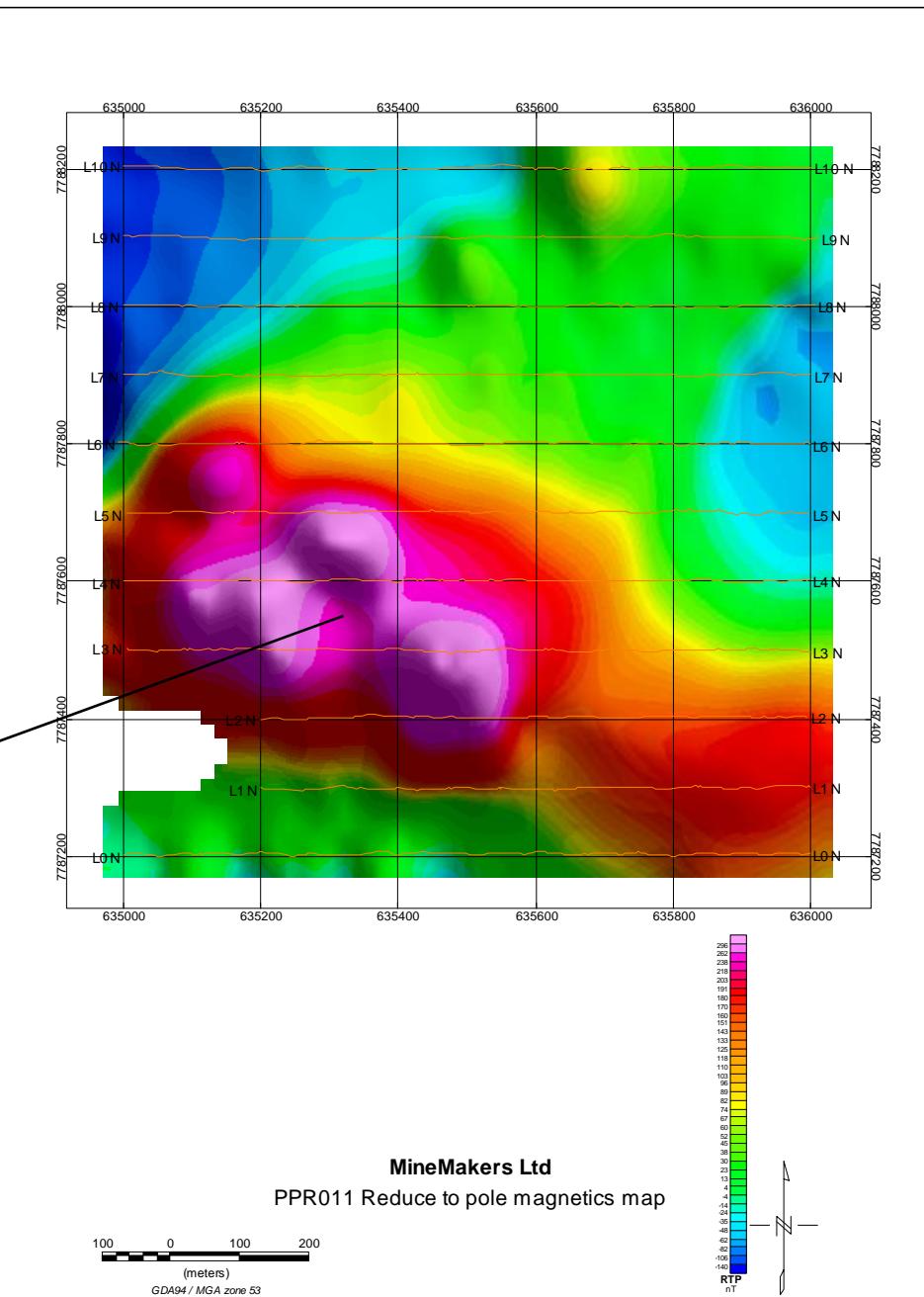


*Expand as required



PPR011

- Strongest magnetic anomaly in the Wonarrah area
- ~470nT peak to trough
- Consists of broad magnetic peaks superimposed on broader basement structures
- Shallowest magnetic source is >40m deep
- Moderate priority due to apparently shallower depths and strength of the basement high

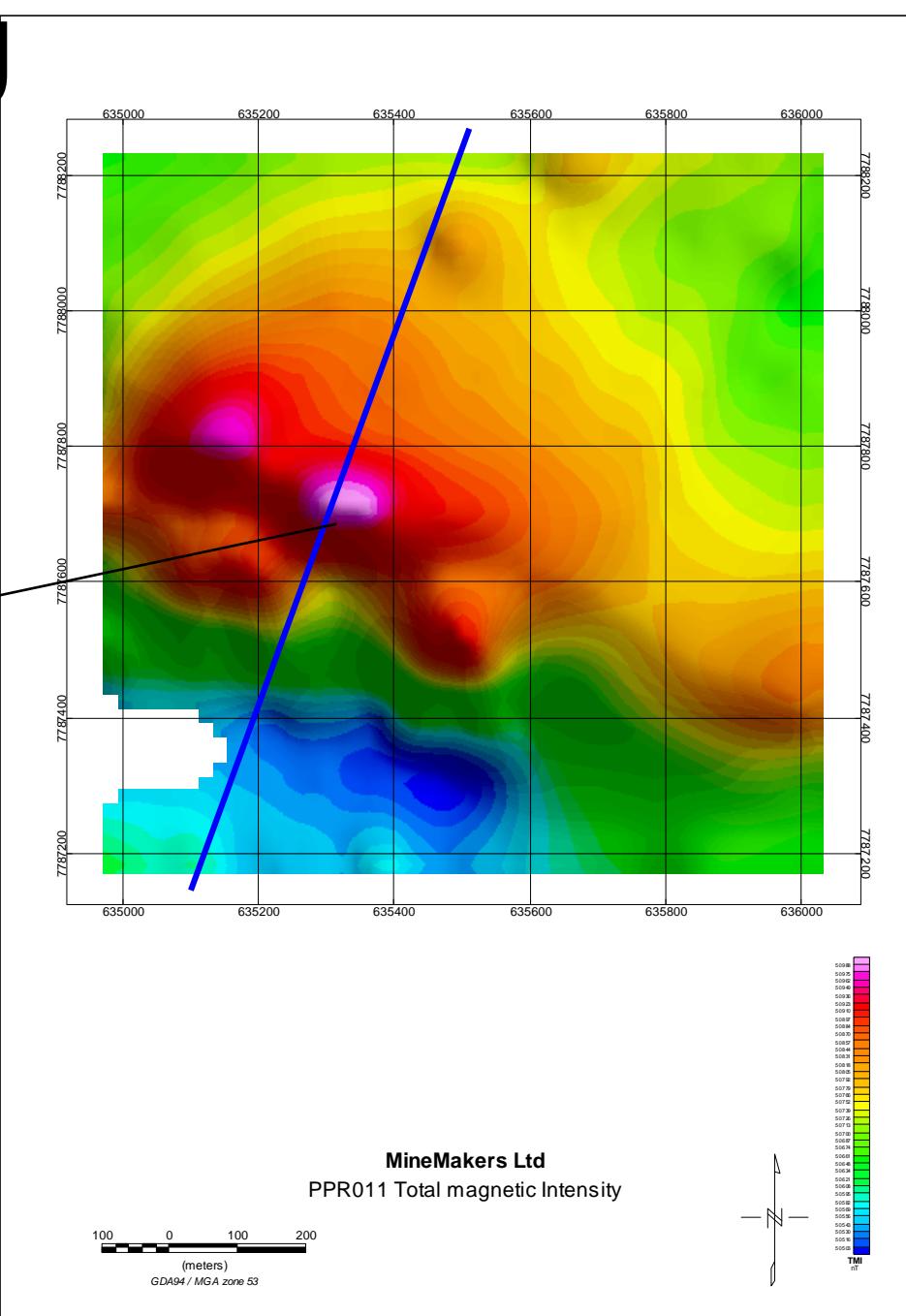


PPR011 Modelling

Depth to peak anomaly: >40m
Position:
635308mE, 7787648mN

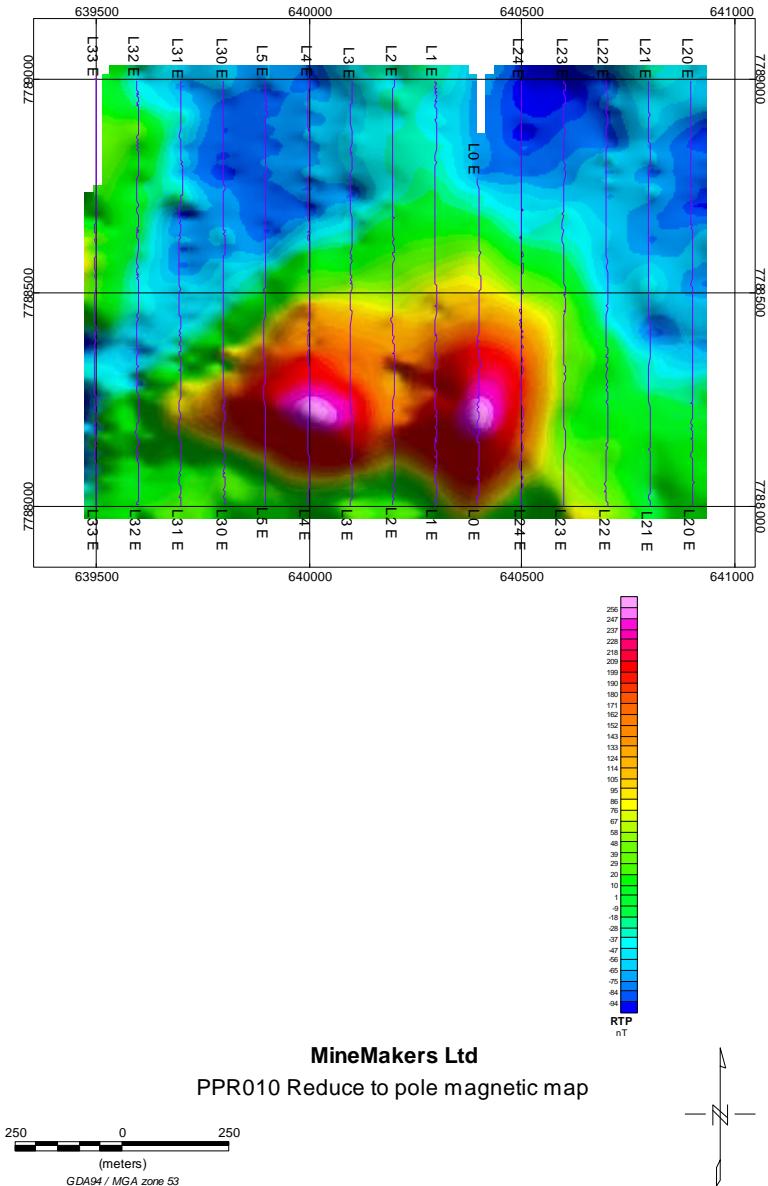


*Expand as required

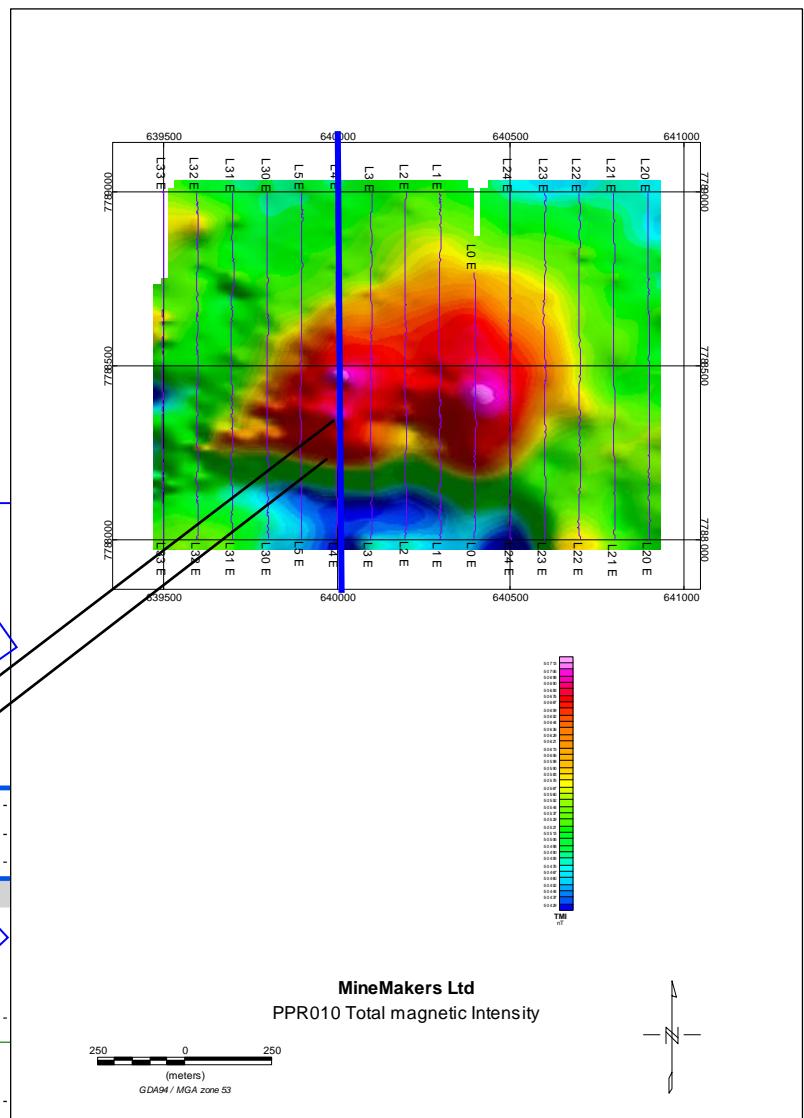
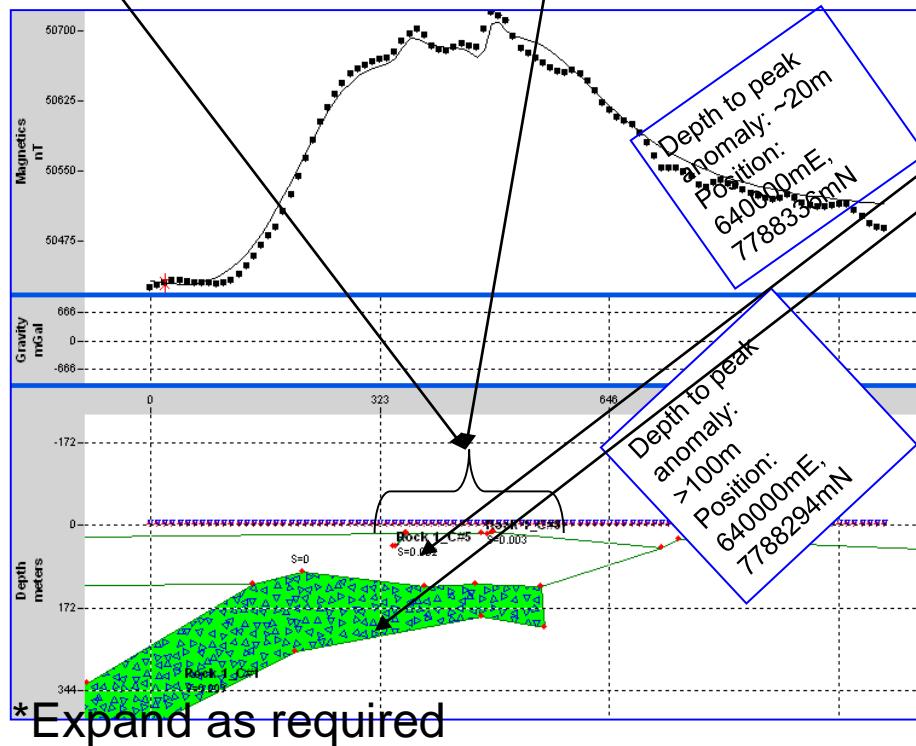
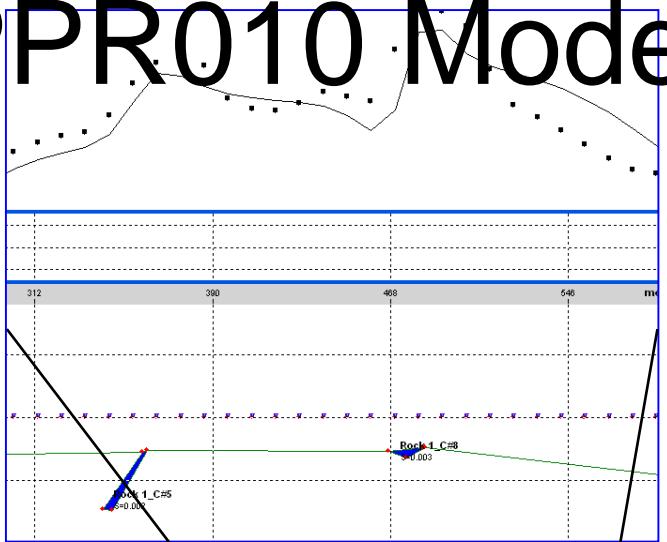


PPR010

- Weak magnetic anomaly on the end of a sinuous reg. magnetic lineament
- Weathered channel basalt?
- Very small, shallow magnetic peaks superimposed on the broad channel response
- Average depth >100m, minimum depth to peaks....20m
- Low priority due to the very small size of the magnetic peaks

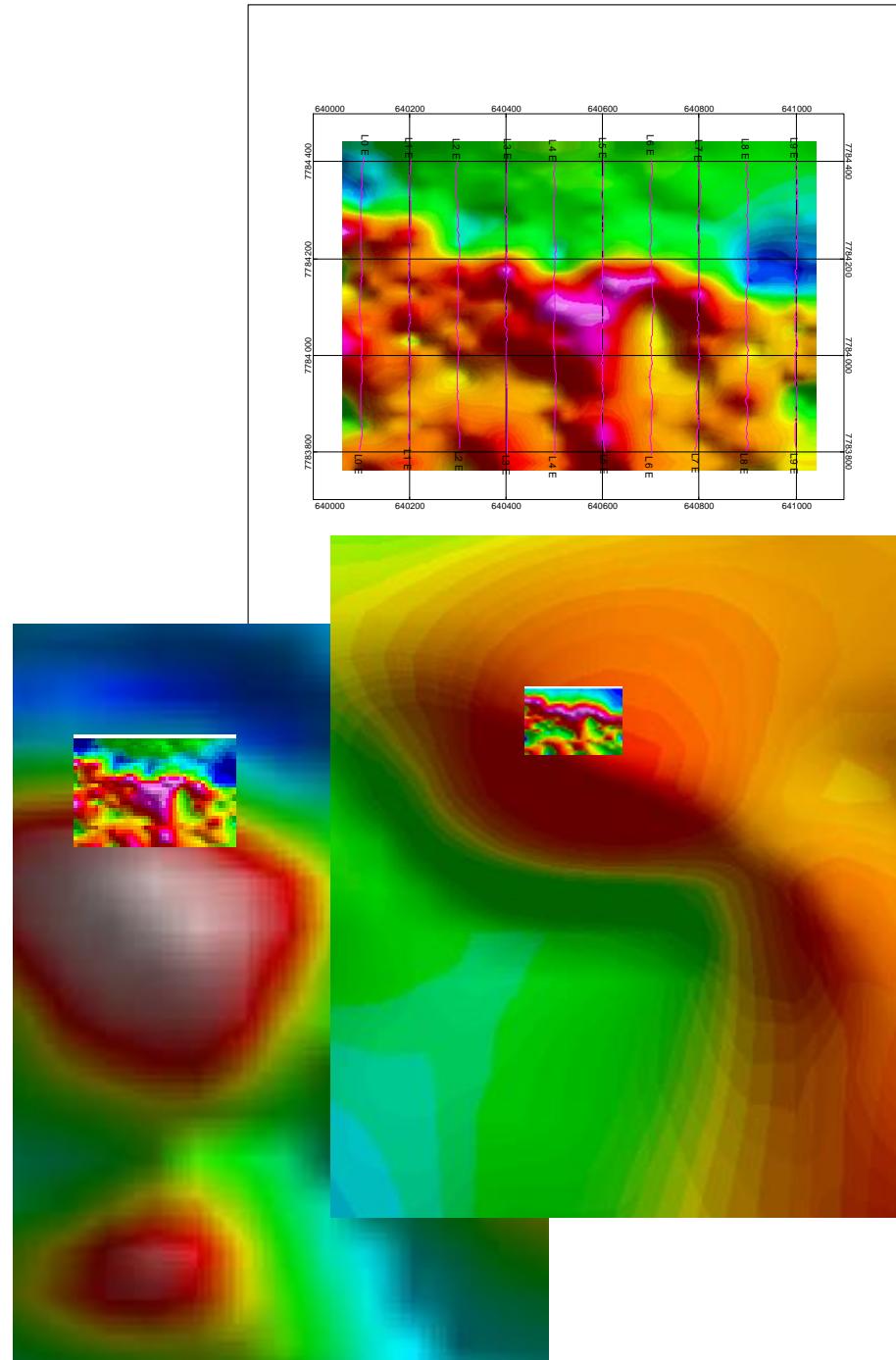


PPR010 Modelling

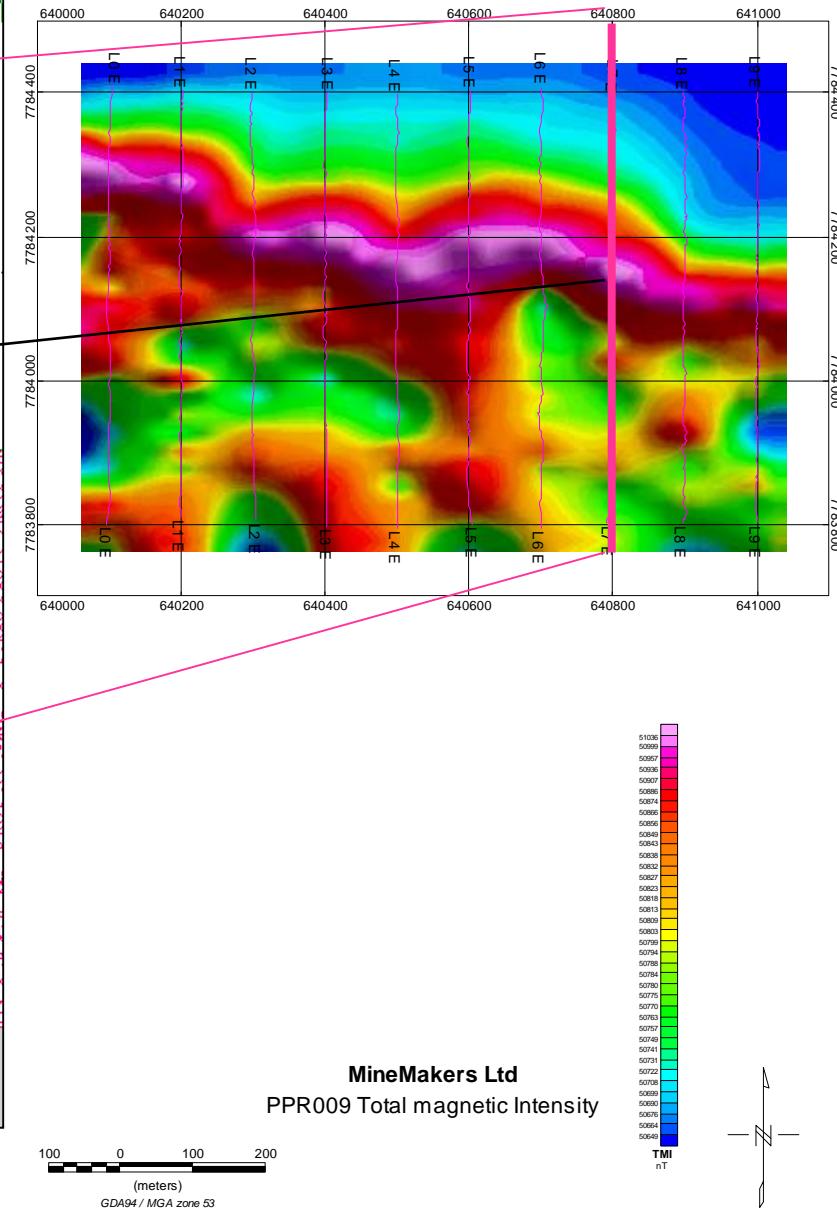
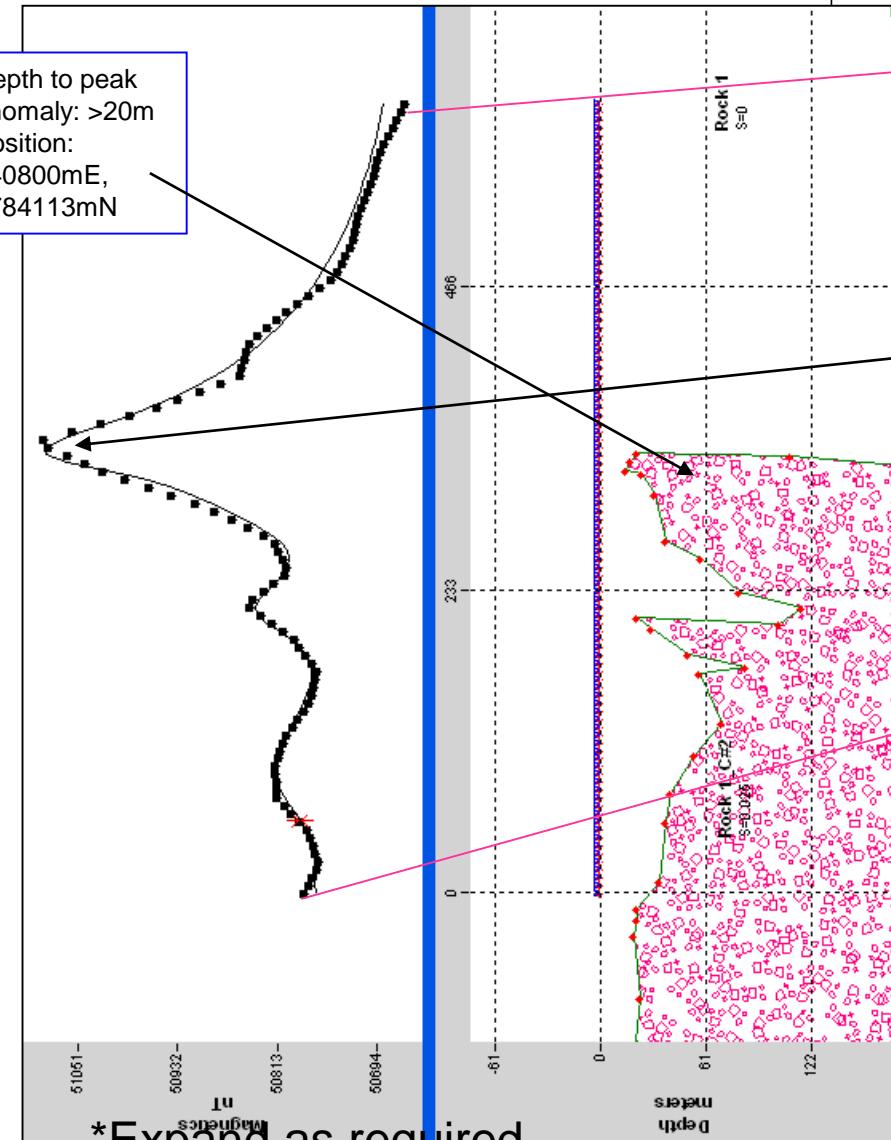


PPR09

- Strong magnetic response on northern edge of regional magnetic high
- Directly superimposed on local gravity high
- ~300nT trough to peak
- Strong E-W structure to the north
- Minimum depth >11m
- **Very high priority due to shallow depth and dual mag+grav high**

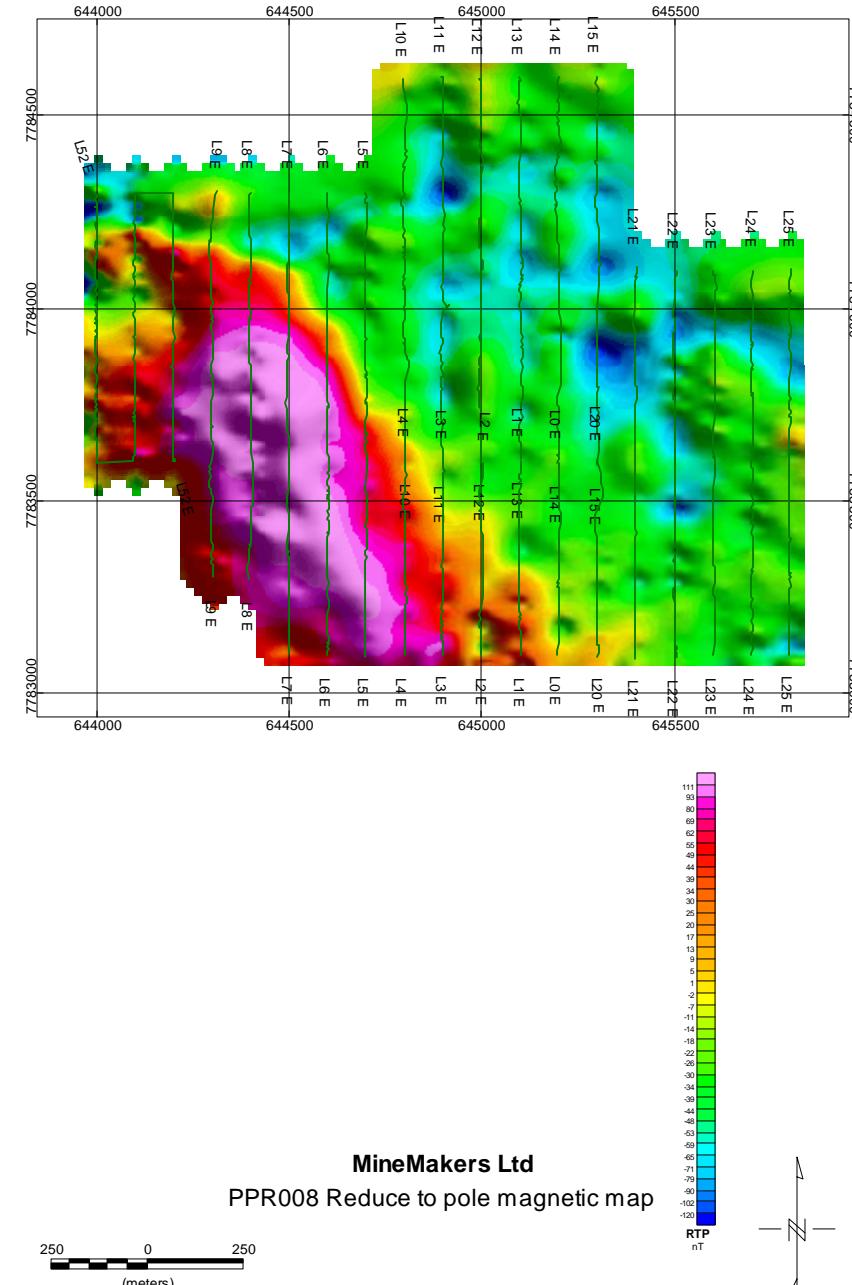


PPR009 Modelling

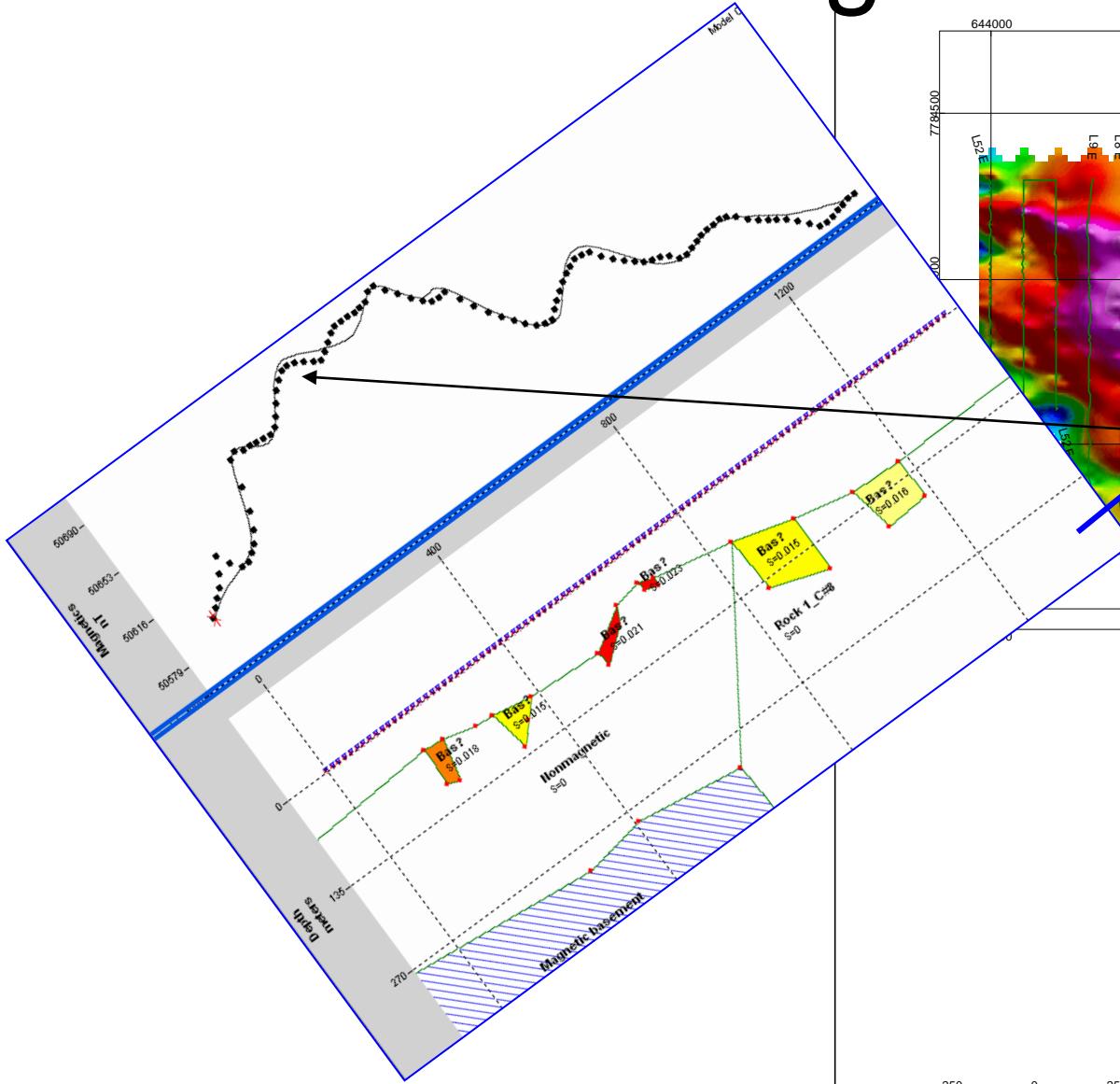


PPR08

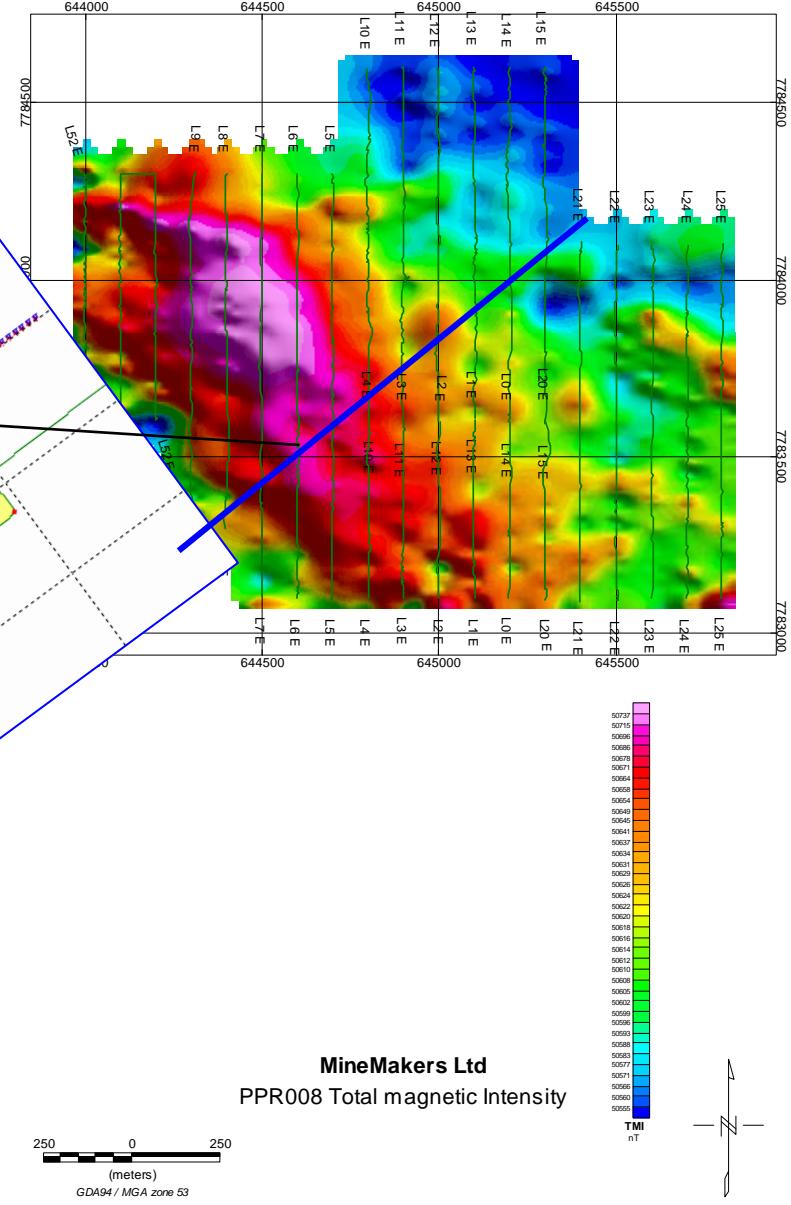
- Broad, ~100nT low amplitude regional mag high
- Subtle magnetic features superimposed on mag high and also on surrounds
- Basement magnetic source is >250m deep
- Shallow magnetic sources are probably unrelated to the deeper magnetic source
- Minimum depth to the shallower magnetic sources is >50m
- V. poor model to data
- V. low priority due to poor model data fit



PPR008 Modelling

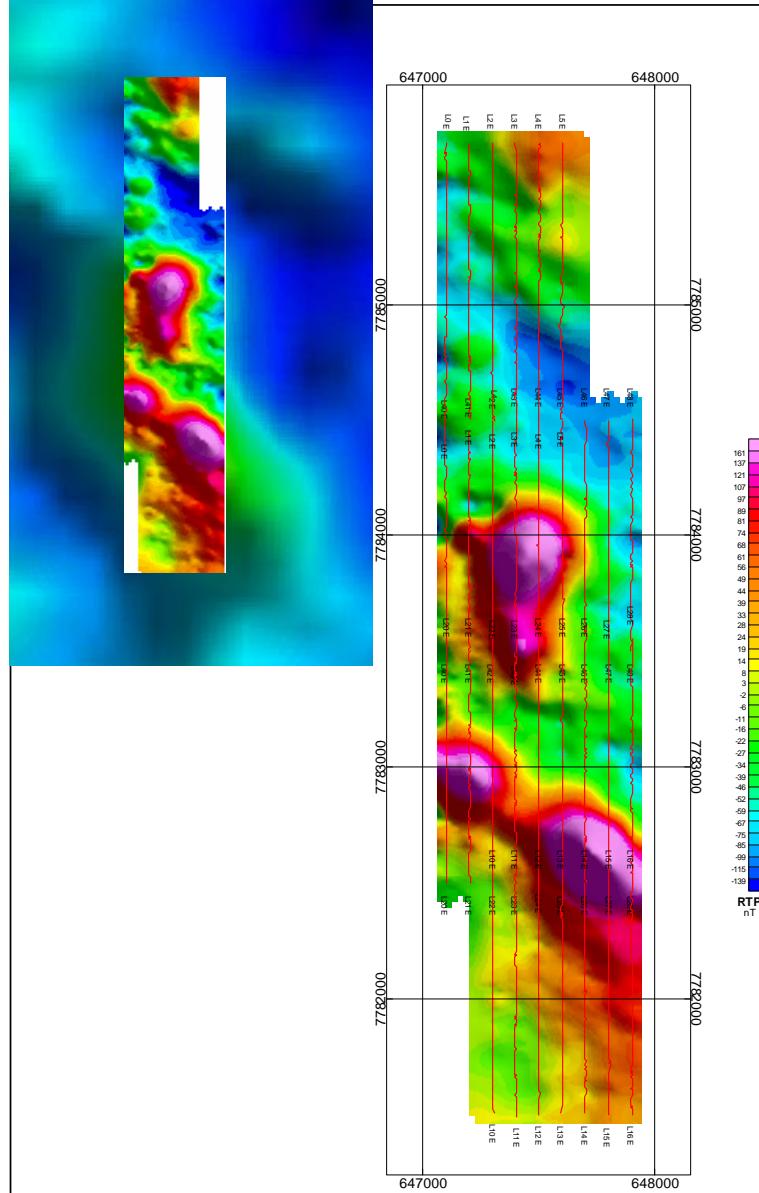


*Expand as required



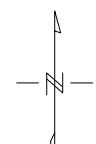
PPR007

- Two narrow 150nT peaks superimposed on a broad magnetic basement structure
- Modelling indicates that peaks may be caused by changes in upper surface topography of a layer-like magnetic source
- Modelling indicates shallow magnetic peaks have depth to top >50m
- Good opportunity to test magnetic basement at relatively shallow depths

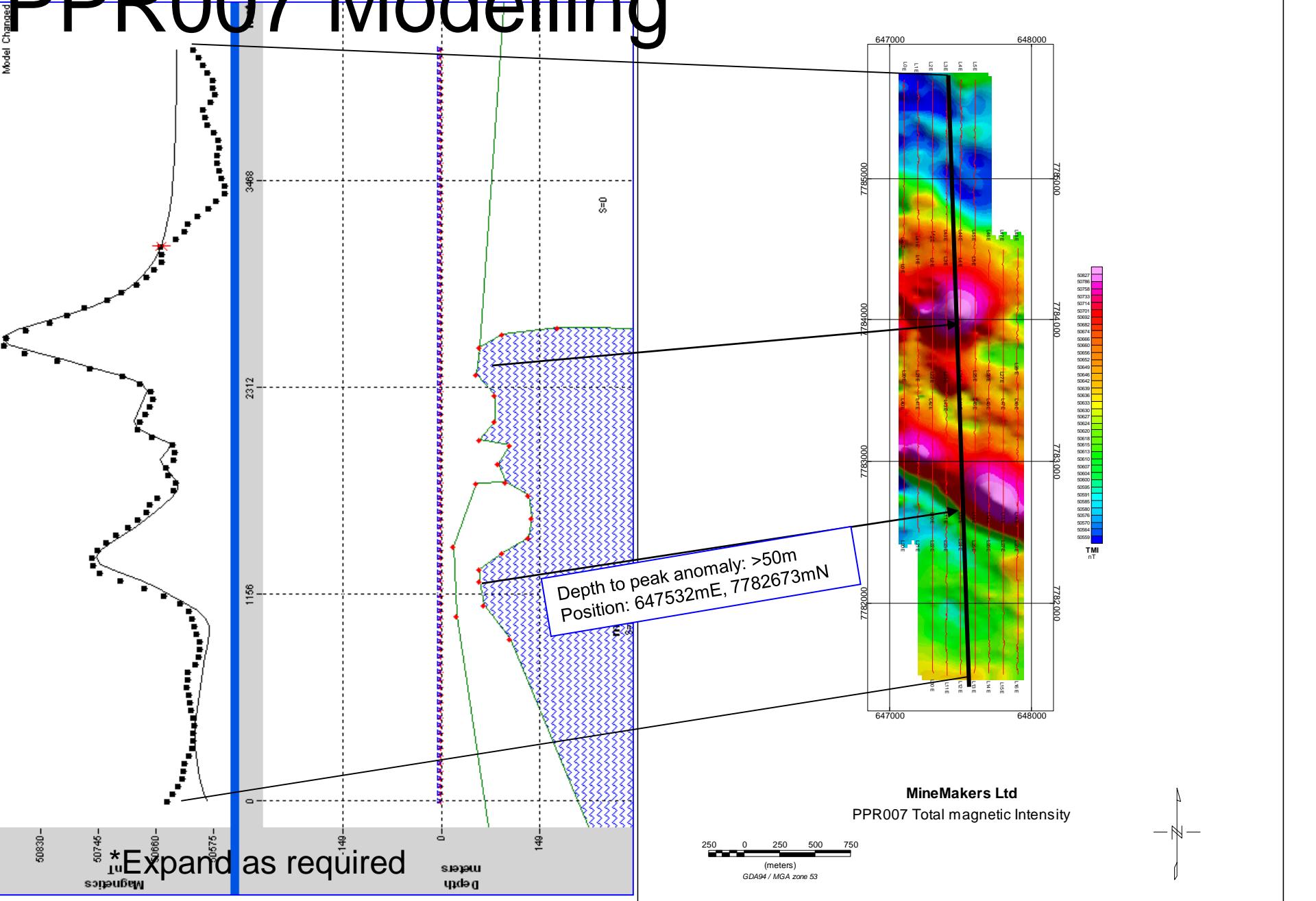


MineMakers Ltd
PPR007 Reduce to pole magnetic map

250 0 250 500 750
(meters)

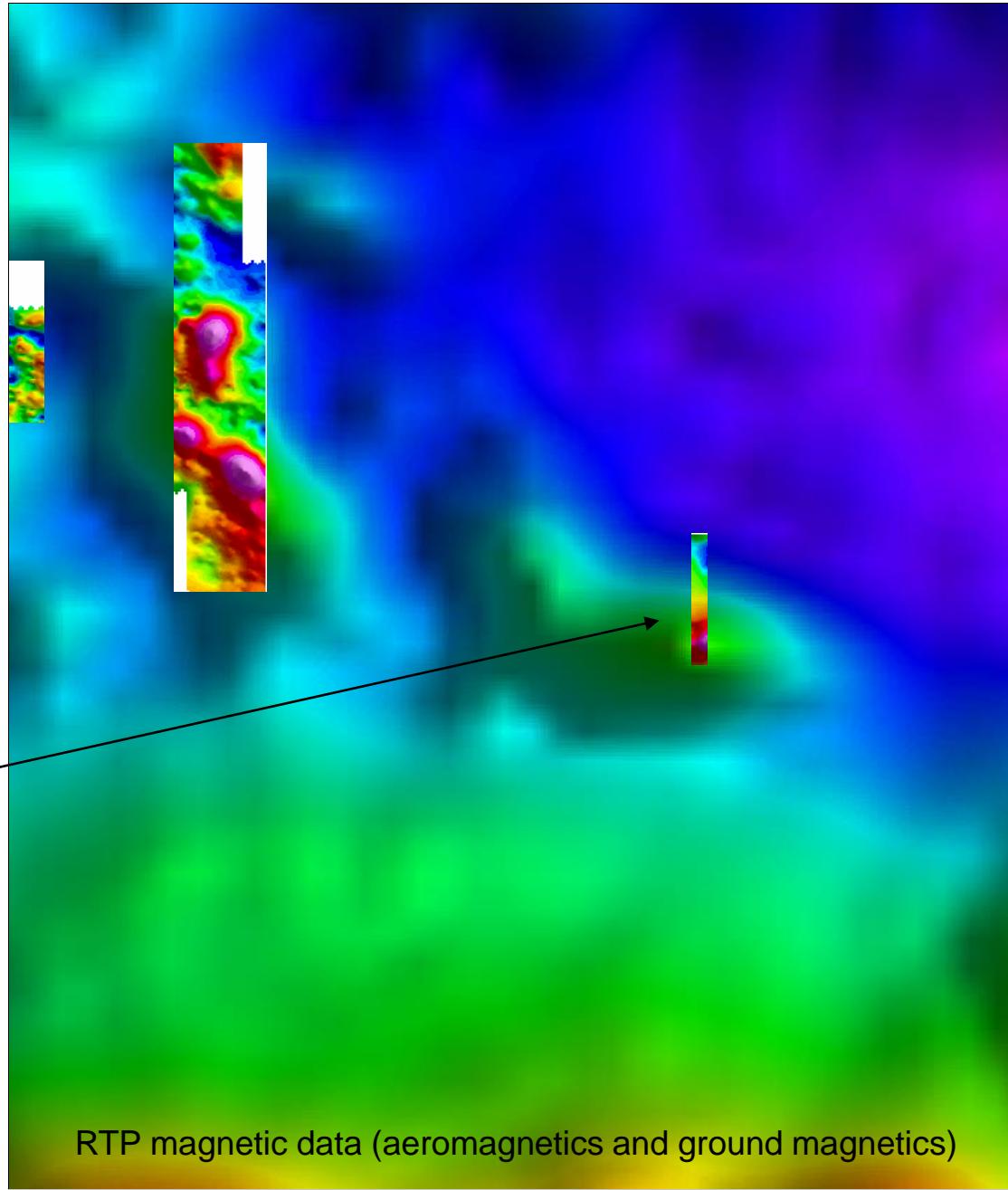


PPR007 Modelling

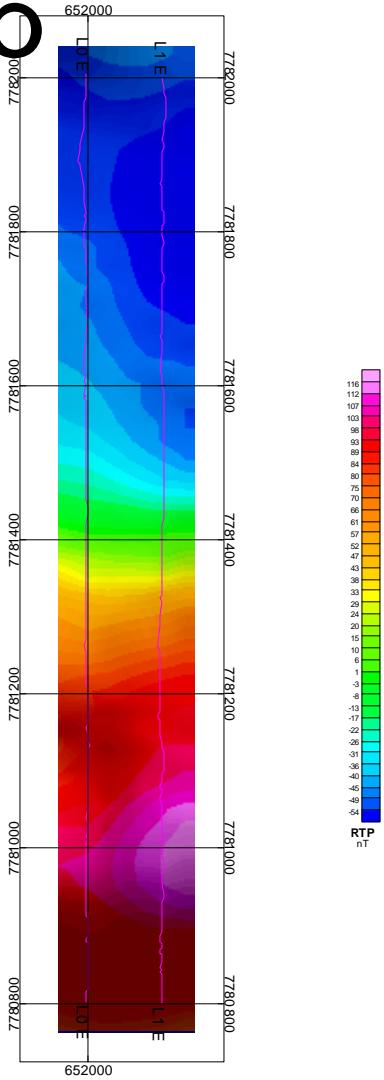


PPR006

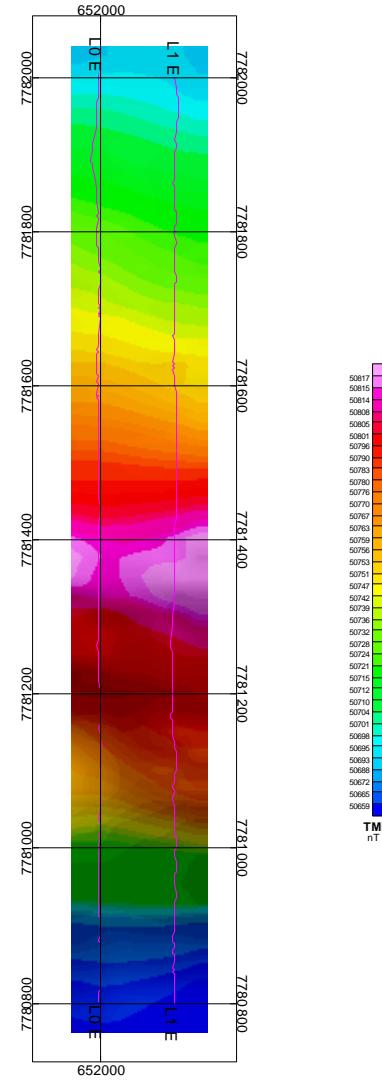
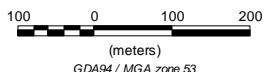
- Width and amplitude of anomaly indicate it is very deep
- Reduce to pole filter moves the TMI anomaly over 600m south
- This means that the source is very deep
- Deep source means that the reduction to pole has a greater effect than shallower sources
- No drilling recommended due to depth of source



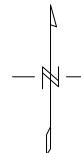
PPR006



MineMakers Ltd
PPR006 Reduced to pole magnetic map



MineMakers Ltd
PPR006 Total magnetic Intensity



GDA94 / MGA zone 53