

Line 1200 E.

The profiles at 25 m and 50 m are very similar indicating that the body is essentially the same in shape and chargeability at both depths.

Line 1250 E.

The anomaly is complex. The profiles at 25 m and 50 m are again very similar.

Line 1300 E.

The source is still not simple but appears to be close to the surface.

COMPARISON PROFILE

For comparison purposes a gradient array profile was conducted over similar pyritic "Moina Sandstone" exposed by excavations at the Wilmot damsite 2 km to the north west. The profile (attached) is very similar to that under investigation. The relatively low resistivities encountered were lower than expected.

CONCLUSIONS

1. The source of the chargeability anomaly between 1100 E/180 N and 1350 E/ 80 N is steeply dipping (south?) and probably relatively resistive.
2. On line 1150 E the maximum depth to the source is about 25 m, but on the other lines little change occurs with depth and the depth to source may be less than 25 m.
3. The anomaly is close to, but not quite parallel to, the Bismuth Creek Fault. Pyritic sandstones exposed at the Wilmot damsite (also beside the same fault) show similar chargeabilities. The source is either (a) a steeply dipping pyrite rich sandstone (Moina Sandstone near Cethana is rich in framboidal pyrite) or (b) pyrite introduced or remobilised along fractures associated with the Bismuth Creek Fault.