

DISCUSSION OF RESULTS

Ground Magnetic Contours

Contours of our hand-smoothed data show some differences to the EZ contours. This is because many of the noise spikes that had been incorporated into EZ's data have been rejected.

In the NE quadrant of the grid our contours show a pronounced NNE strike trend which appears to match the aeromagnetic strike trend in that area.

The serpentinite to the west shows up as a zone of highly intense and erratic anomaly which is too noisy in parts to derive meaningful contours.

Several discontinuities are apparent in the data and these may be related to faults. However, they may also be related to changes in depth of cover, as it is clear that the magnetic response and contour picture is sensitive to changes in depth of the magnetic sources.

The data requires heavy smoothing in places. However, smoothing of the magnetic data using an 11 point rolling mean is not a valid procedure and produces gross distortions in the data. Magnetic data which is highly erratic and includes numerous noise spikes, must be either carefully manually smoothed or automatically processed using sophisticated frequency filters and spike removal routines. Consequently the smoothed data contours by Bishop (Appendix XI, EZ Report No. 134) is quite artificial and the interpreted NW striking body at depth simply does not exist.

The data is so complex in places that 1:2,000 would be a more appropriate scale for profiling and contouring.