KIA ORA MINE SURVEY - TENNANT CREEK

A survey was carried out which related three surface stations to the workings underground at the (approx.) 60m level.

Station Marking

On the surface, Stations A & B marked with long white survey pegs with aluminium tag designations whilst Station C is a steel peg, low in the ground.

Underground twelve short pegs, with aluminium tag designations, were placed in the backs of drives.

Instrument

A Wild Level and tri-pod was used both for surface & underground readings.

Calculations

The surface plan was plotted directly from readings, apart from the position of Station C, which was obtained using the isosceles triangle ACPa.

Surface & underground stations were tied in by dropping two phumb-bobs, \( h_s \) & \( h_n \) & relating all underground readings to them. The positions of \( F_a \) & \( F_n \) on the surface were fixed mainly from Station C.

Plotting

Both plans were plotted on a scale of 1:250. Drive outlines are approximated.

J.P. Howard
Resident Geologist