

The 300N spread covered the best gradient array response over the Jukes Pty adits. The pseudosections show a broad moderate-order anomaly with a weak resistivity low. The high chargeability at 1060E, $n=6$ is probably due to an amalgamation of weaker responses near the surface at 940E (corresponding with the King Jukes line of workings) and 1180E (Jukes Pty adits).

3. Ground Magnetics

7.65 line-km of ground magnetics were recorded by Scintrex Pty. Ltd. on 4th February, 1982 (Table 24) using Scintrex MP-2 proton precession magnetometers. A base station was situated north of the old four-wheel-drive access track about 150m south-east from Jukes Camp (AMG Co-ordinates 5330820N, 383720E). The base station was tied-in with the Lyell base and assigned the value of 62751 gammas.

Line profiles were plotted at a horizontal scale of 1:10,000 and a vertical scale of 1cm=500 gammas, smoothed by hand and contoured (Figure 79). A zone of high magnetic response was recorded in the north-east section of the grid, associated with magnetite mineralisation. Background values were around 62,700 gammas.

4. Ground E.M.

A 5.65 line-km "Genie" SE-88 ground E.M. survey was conducted on lines 100N-860N over the zones of higher gradient array chargeabilities (Table 25). Initially a 50m coil separation was used with 20m station intervals and 10m intermediate stations over anomalous areas. Anomalies on lines 700N, 1110E and 860N, 1020E were re-surveyed using 100m coil separations. Line profiles are given in Figures 80 and 81.

The anomaly on line 700N is weak but corresponds with the resistivity low defined by the gradient array and dipole-dipole I.P. surveys; it was confirmed with a 100m coil separation survey. The anomaly on 860N, however, was not confirmed by the 100m separation survey and is probably spurious. The Jukes Pty and King Jukes mineralisation did not produce significant responses.

2.10.7 Diamond Drilling

Two diamond drill holes JP1 and JP2 were put down by Associated Diamond Drillers. Sections are shown in figures 82 and 83.

D.D.H. JP1 was drilled to test mineralisation in the Jukes Pty adits about 100m north of I.N.A.L. drill hole Z142003,

D.D.H. JP2 was drilled to test for depth extension to mineralisation in the Jukes Pty adits, about 100m south of I.N.A.L. drill hole Z142003.