

## 2.10 JUKES PTY. (M.J. Hutton)

### 2.10.1 Introduction

The Jukes Pty area is located on the northern flank of Mt. Jukes, above the King River gorge and west of East Jukes Spur. The area includes several old copper prospects, the main workings being the Jukes Pty and King Jukes prospects.

Prior to 1981 most exploration of the area had concentrated on the copper potential of the prospects. During a brief visit in 1981, four samples of picked mineralisation from the Jukes Pty adits were taken and fire assayed for Ag-Au. The results showed that the mineralisation contained a high Au/Cu ratio, relative to the Mt. Lyell mineralisation (Meares, 1981).

Exploration during 1981-82 was aimed at the gold potential of the Jukes Pty and other prospects. Geological mapping, underground adit sampling, surface rock chip and soil sampling, I.P., magnetics and ground E.M. surveys were conducted over thirteen grid lines, spaced 50 metres apart over the Jukes Pty adits and 100m apart elsewhere.

A close association was soon established between Au content and Cu grades, both of which were sub-economic. The emphasis of the exploration program was then switched to establishing the extent and grade of the Jukes Pty mineralisation in the hope that the old workings were situated on the fringe of more substantial mineralisation. Two short diamond drill holes, JP1 (141.5m) and JP2 (158.3m) tested the mineralised horizon about 100m north and south respectively of I.N.A.L.'s DDH 142003, drilled in 1973-74 beneath the adits.

### 2.10.2 Access

A four-wheel-drive access track from Crotty to the Jukes Pty adits, that was established by I.N.A.L. in 1973, had been washed out where it crossed Traveller Ck and so helicopter support was utilised throughout the 1981-82 program. Four huts were erected on the I.N.A.L. drill site (AMG Co-ordinates 5330950 N, 383610 E) as a base camp for geophysical and drilling crews.

Thirteen grid lines, totalling 9.84 line-km (including the baseline), were cut and pegged at 20m intervals by Mt. Lyell field assistants (Table 16 in Appendix N). A baseline, running down a ridge about 200m west of the Jukes Pty adits, was designated 1000mE to restrict grid co-ordinates to northings and eastings. Line 860N follows an HEC seismic line, a part of their investigations of the King River hydro scheme. Line 700N was extended to the east to allow dipole-dipole I.P. coverage over a gradient array anomaly at 1120E. The line spacing was 50m over the Jukes Pty adits (00-300N) and 100m elsewhere on the grid.