

749024

The receiver measured the field strengths of each of three transmitted frequencies (315, 945 and 2835Hz) as a ratio of the (transmitted) reference frequency (105Hz). The lines were surveyed by Scintrex Pty. Ltd. on 28th January (29S) and 20th and 23rd March 1982 (4S). For the line 4S survey the 2835 Hz frequency was not correctly zeroed but this should not have affected the results.

Line profiles of the data are given in Figure 9. Only weak anomalies were recorded on line 29S at about 680mE. The likely source is pyrite-magnetite-chalcopyrite veins in Red Hills rhyolites. There were no anomalies on line 4S. Neither the DDH RH5 massive sulphide lens (line 29S, 600mE) nor the 1N adit pyrite-chalcopyrite mineralisation (line 4S, 500mE) produced recognisable responses.

5. Dipole-Dipole I.P.

Line 33S, 440mE-900mE was surveyed with dipole-dipole I.P. by Scintrex on 10th January 1982. The survey was planned to test an unusual applied potential anomaly which turned out to be a wiring error which was not picked up until later testing.

Figure 10 shows the resistivity and chargeability pseudo-sections. The anomalies centred at about 600mE are due to the black shales unit. The weaker chargeability anomaly on the eastern end of the profile is due to disseminated pyrite-chalcopyrite in the Red Hills rhyolites.

2.1.6 Diamond Drilling

Diamond drill hole RH12, drilled eastwards on Line 16S from 246mE, was commenced on 1st May by Associated Diamond Drillers and completed on 28th May at a depth of 307m. The hole was designed to test the Red Hills host sequence 250m north of previous drill hole RH7, and stratigraphically above the centre of the chlorite alteration pipe defined by C. Eastoe within the Red Hills Lavas.

The results were disappointing. The contact between the volcanoclastic/pyroclastic sequence of the Red Hills Basin and the flanking Red Hills Lavas, was much higher in the hole (234m) than anticipated. Disseminated basemetals, locally as much as 5%, were present over intervals of a few metres in several sections of the volcanoclastic/pyroclastic sequence.

DDH RH12:

Collar location : Line 16S, 246mE
 Azimuth : 090° magnetic
 Dip : -51°
 Depth : 307m
 Commenced : 1st May 1982
 Completed : 28th May 1982

SUMMARY LOG

0 - 14m : RHYOLITIC LAPILLI TUFF. Sericitised and schistose
 14 - 52m : RHYOLITIC TUFFACEOUS VOLCANICLASTIC. Sericitised, chloritised schistose. 40-43m:3-5% sphalerite, pyrite, galena, chalcopyrite.