

Fig. II-3-8(1) TEM response maps of Loop5 (Ch1-Ch10)

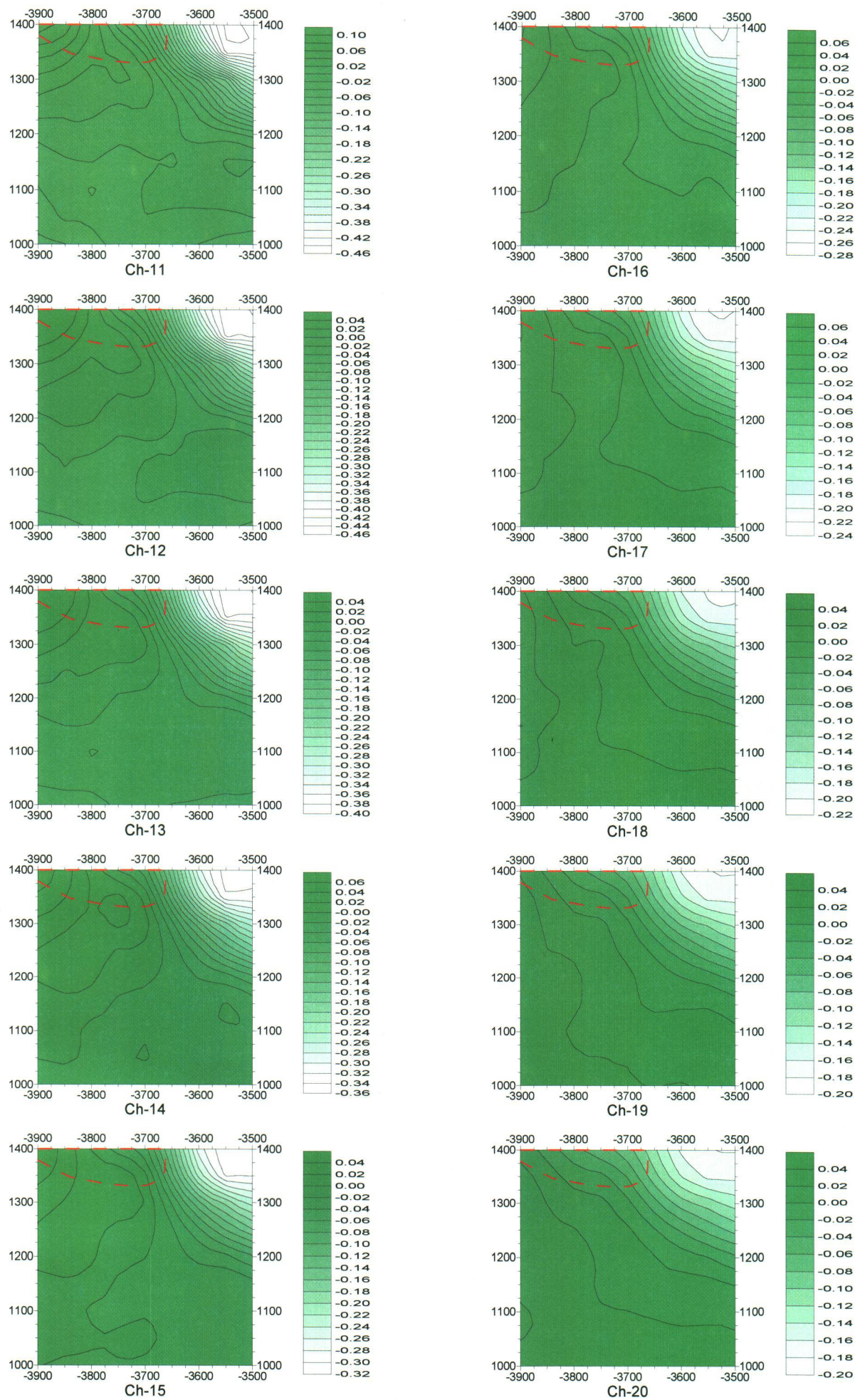


Fig. II -3-8(2) TEM response maps of Loop5 (Ch11-Ch20)

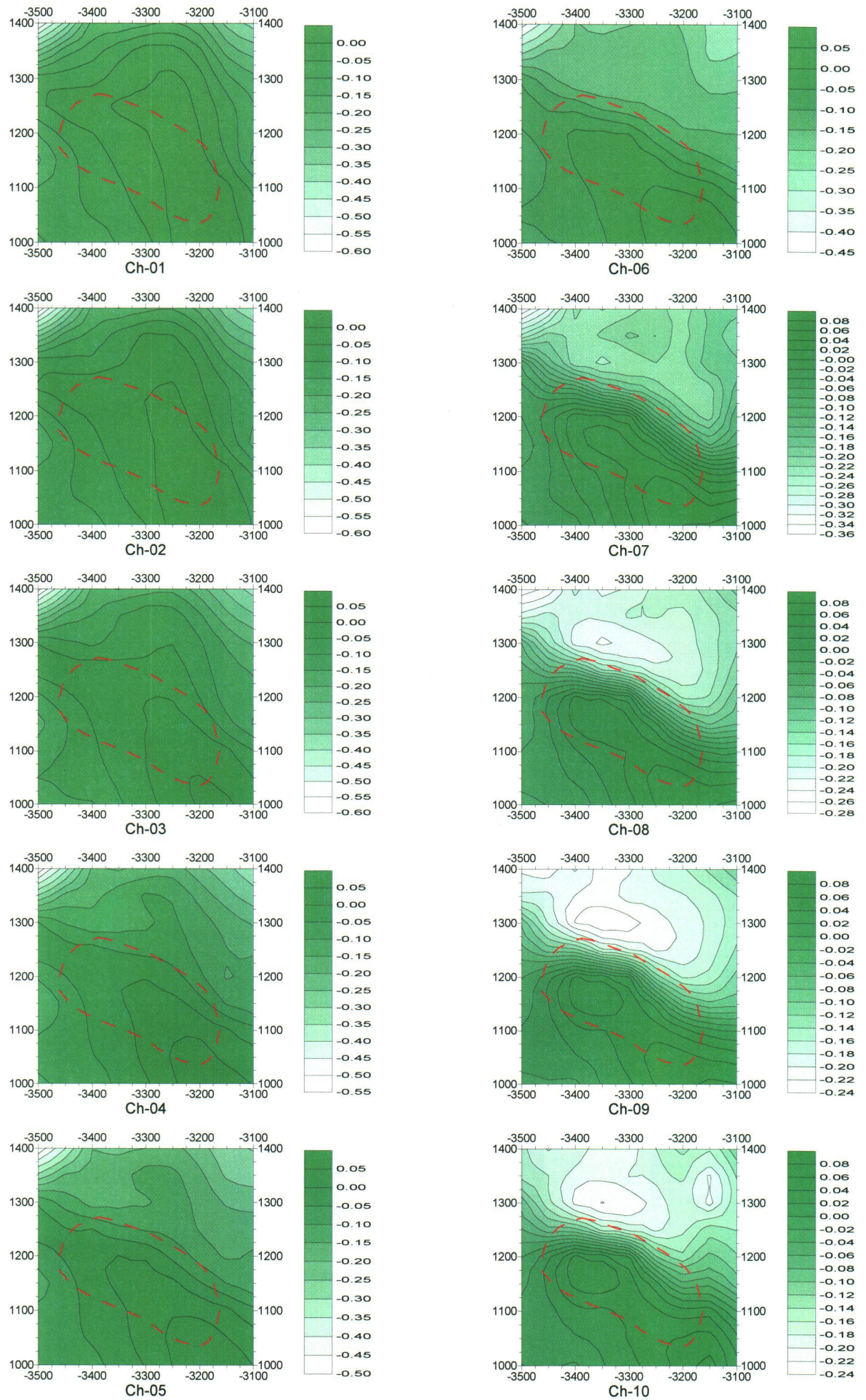


Fig. II -3-9(1) TEM response maps of Loop6 (Ch1-Ch10)

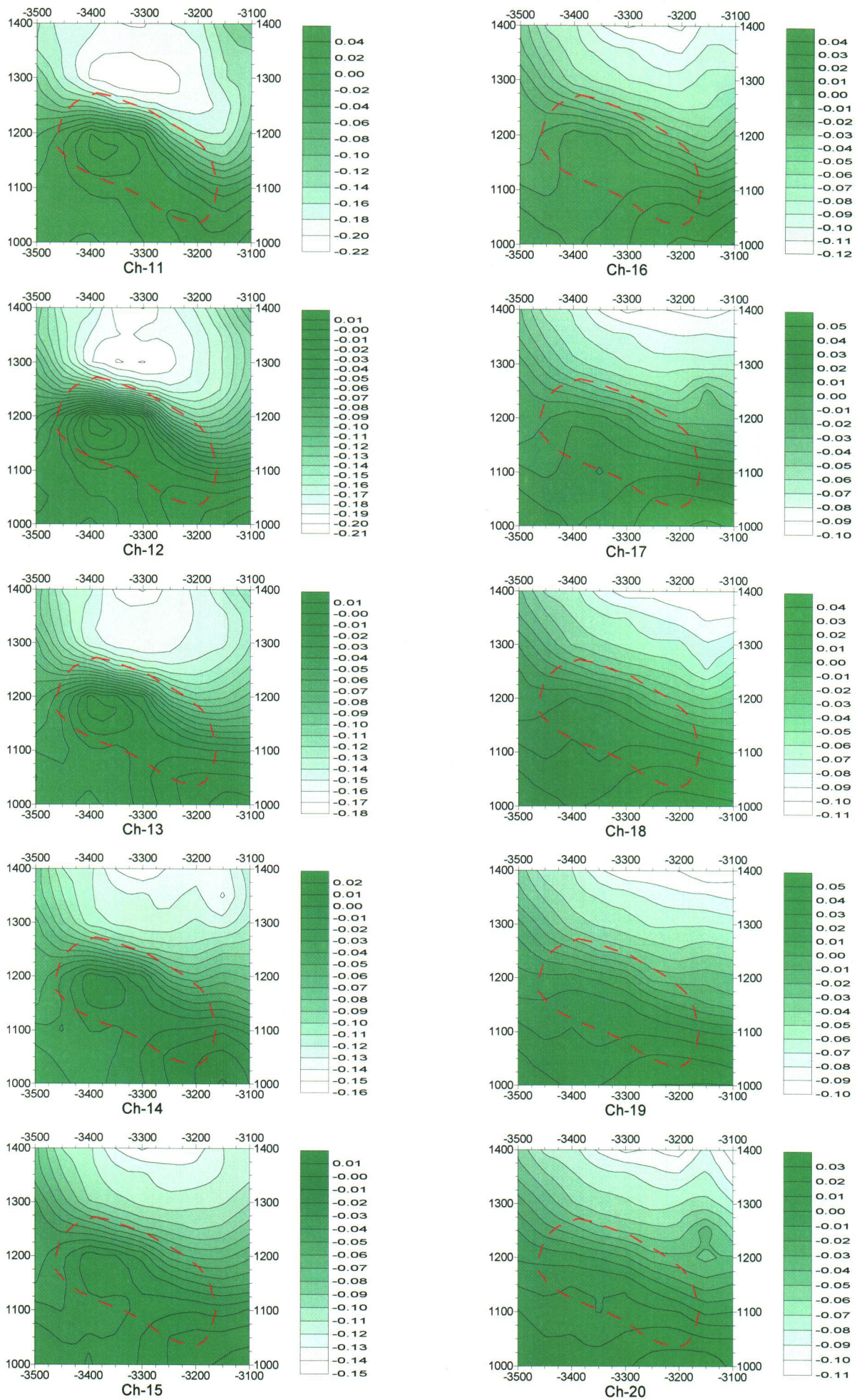


Fig. II-3-9(2) TEM response maps of Loop6 (Ch11-Ch20)

high TEM response seems to take place at intermediate channels (channels 8 to 14) to the south of 1200N with its highest response along the line 3400W. Low TEM responses detected in the north part of the loop are indicative of high resistivity distribution.

Loop 7 (Figs. II-3-10(1) and II-3-10(2))

Placed to the west of Loop 3, this loop presents a continuous electrical structure but showing high TEM responses in the central-south part of the loop. The intermediate channels (11 to 17) show stronger responses.

3-6 Further Considerations

The TEM survey was conducted in Rakah Gold Mine area and Quron Al Akhbab area in order to find geophysical anomalies related to massive sulphide ore. Loop-1 and Loop-2 were set up respectively in these 2 areas.

In Rakah Gold Mine area, a drilling survey was conducted within a small-scale TEM anomaly detected at the deep part by the Loop-1. The drilling intersected pyrite dissemination but massive sulphide was not detected.

In Quron Al Akhbab area, the Loop-2 detected remarkable high TEM responses at the shallow part. Drilling survey was conducted within this TEM anomaly zone, and promising stockwork was intersected at the depth of about 170m.

Fig. II-3-11 summarizes the results obtained in Quron Al Akhbab. During the Phase I, the results of the geophysical survey suggested that stockwork ore shows high chargeability and medium to high resistivity values in this area, but according to the results of the TDIP detailed survey obtained during the Phase II indicates that inside of the stockwork zone a high Cu grade was found in places where relatively low resistivity was detected so that it can be inferred that high content in metallic minerals can be found in places of relative low resistivity. As a result, we can understand that stockwork zones can be found in places with high chargeability however medium-low resistivity within these zones are indicators of high grade deposits. However, it is necessary to be cautious of this interpretation because the resistivity may also decrease due to other reasons such as underground water, porosity, alteration, etc. During the Phase I, resistivity did not always show low values in high grade part because the station interval was probably too wide to detect the mineralized zone at shallow part.

In Hayl as Safil area, 5 loops (Loop-3~Loop-7) were set up around the existing ore bodies. Fig. II-3-12 shows compiled geophysical map in Hayl as Safil area. Al Ashgar, Al Bishara and Al Jadeed ore bodies, which are mainly composed of massive sulphide ore, are clearly detected as low resistivity and high chargeability zones by the TDIP survey and as high TEM response zones. Hayl as Safil ore body, which is mainly composed of stockwork ore, shows high chargeability, high resistivity and generally low TEM response. High TEM response is detected at the station 3700W, 1700N. Massive sulphide ore had been intersected by previous drilling survey at this TEM anomaly zone. As seen in the TEM sections of Fig. II-3-12, the place where massive sulphide and brecciated ore were intersected

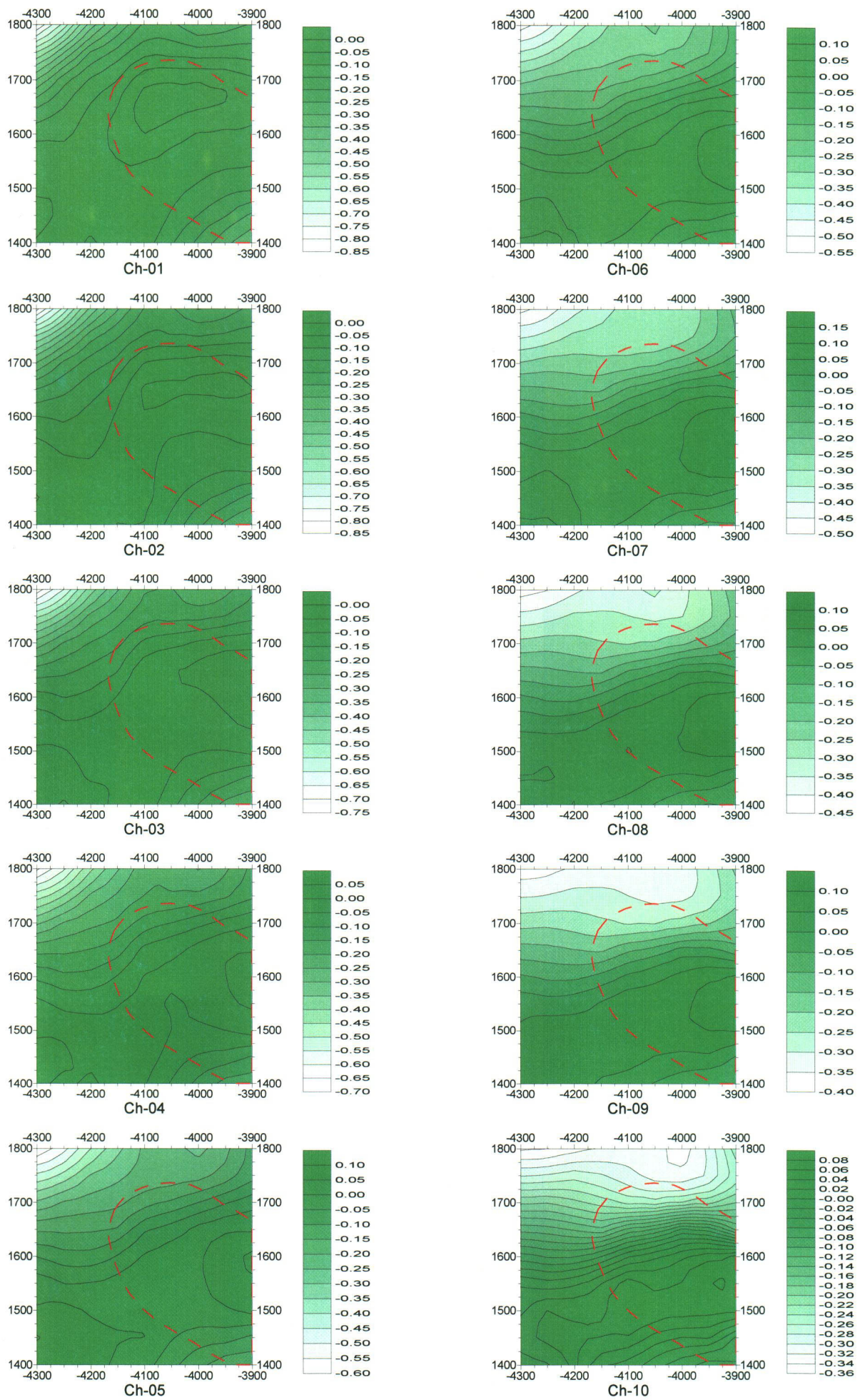


Fig. II-3-10(1) TEM response maps of Loop7 (Ch1-Ch10)

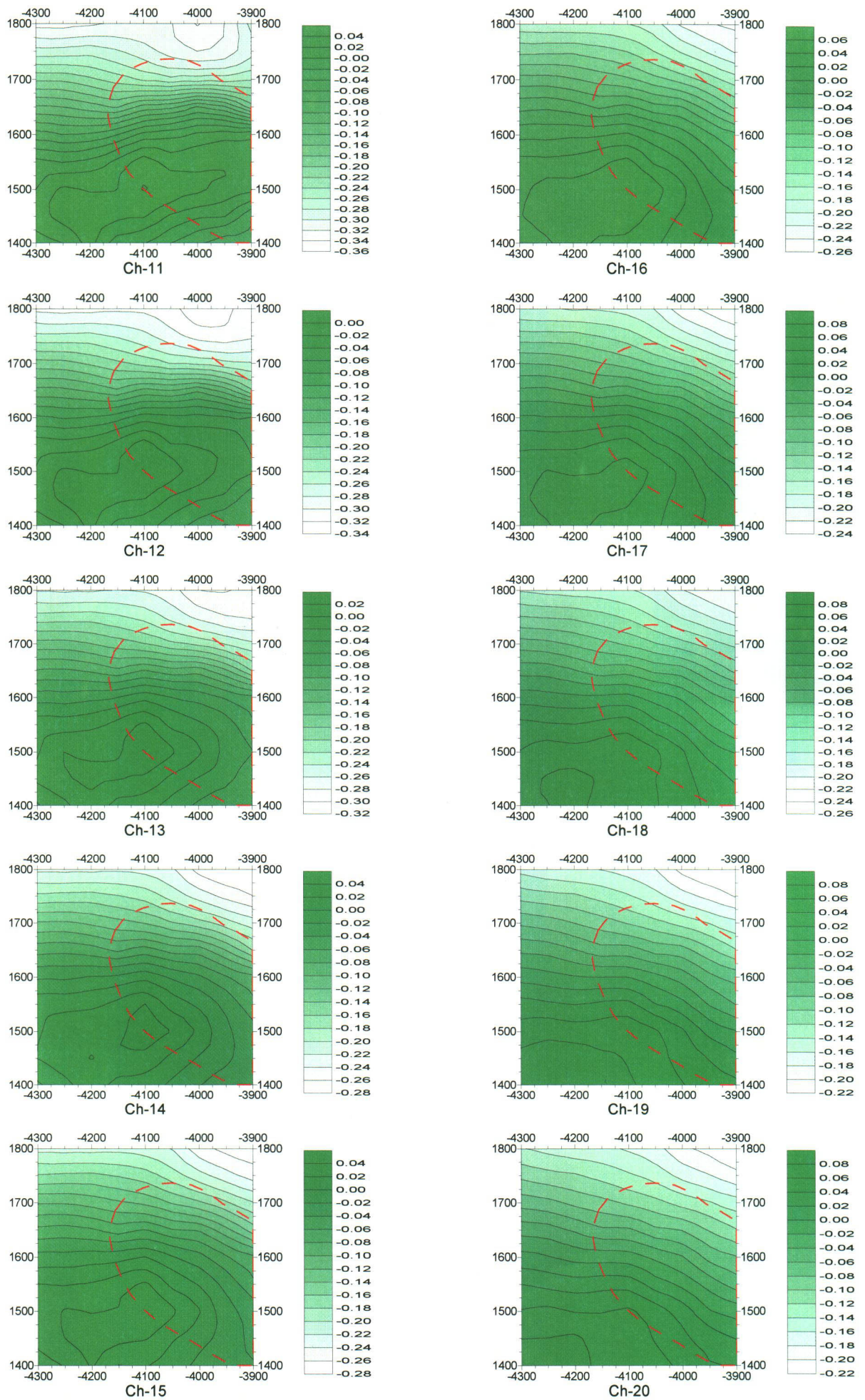


Fig. II -3-10(2) TEM response maps of Loop7 (Ch11-Ch20)

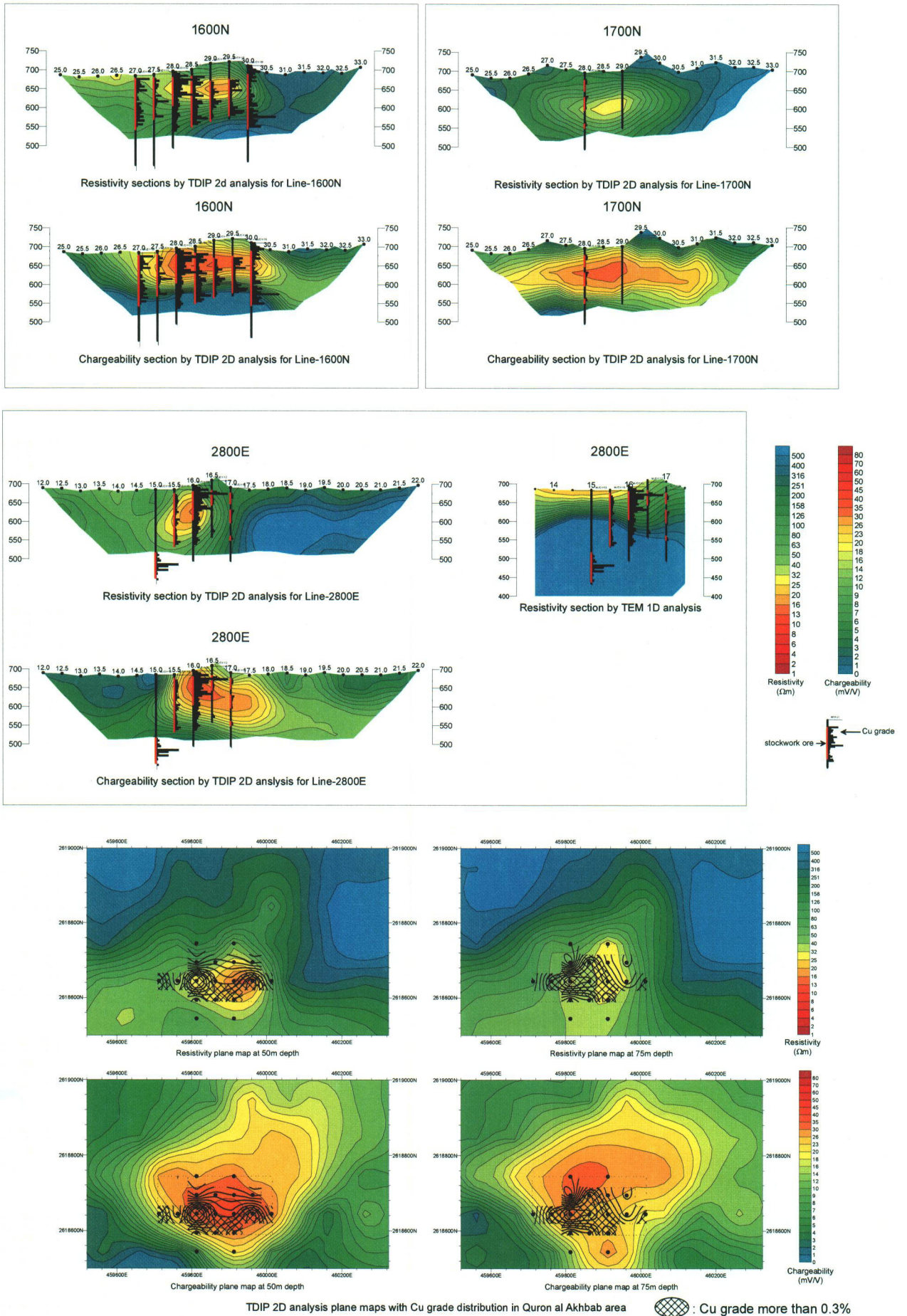


Fig. II -3-11 Results of geophysical survey in Quron Al-Akhabab area

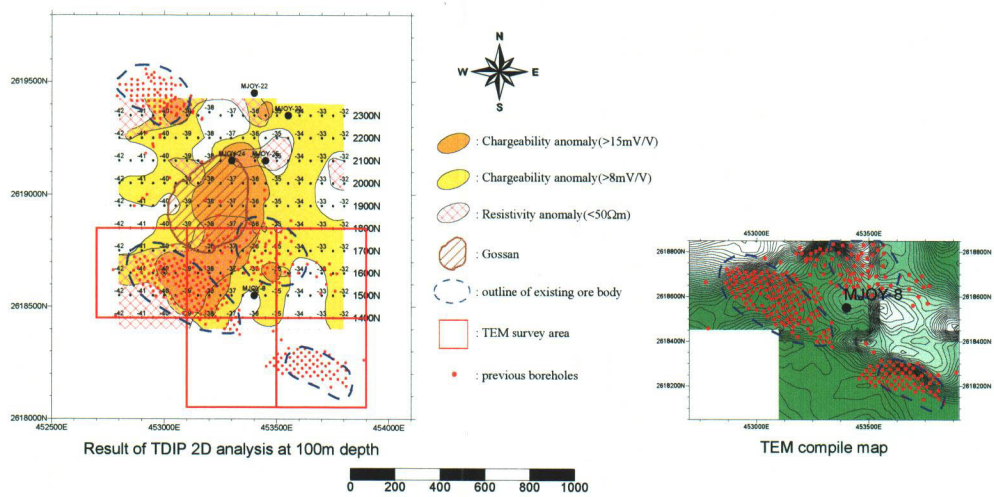
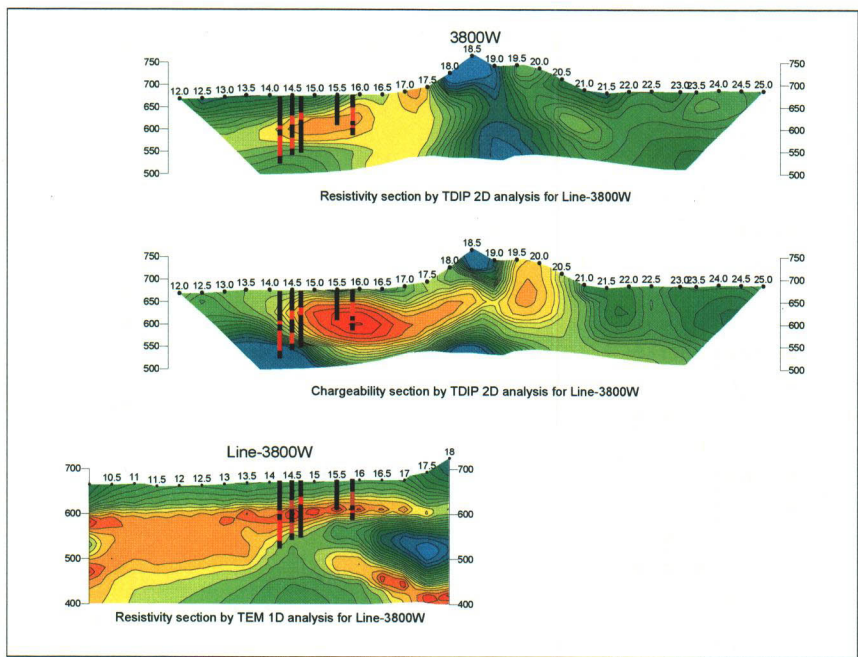
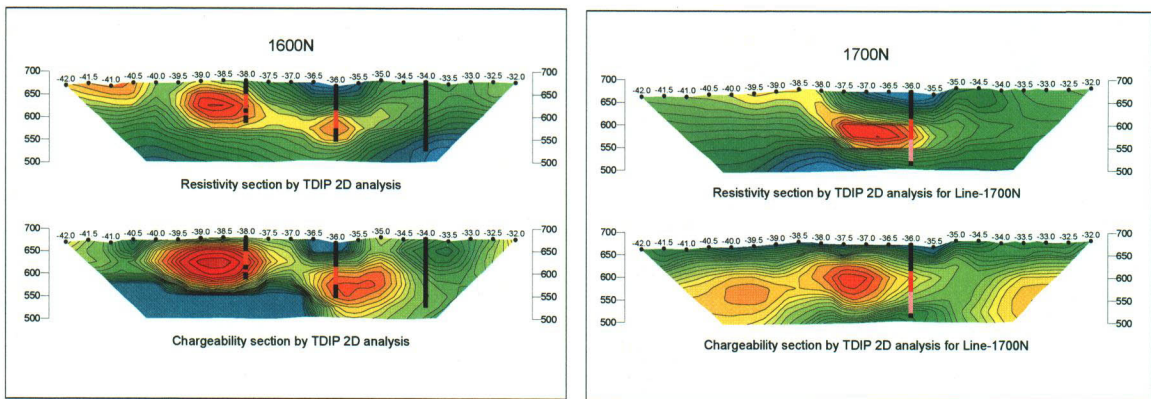


Fig. II -3-12 Results of geophysical survey in Haylas Safil area

corresponds to low resistivity zone, and the place where stockwork ore were intersected corresponds to high resistivity zone.

A high chargeability distribution is detected contiuously along the N-S direction from the NW edge of the Hayl as Safil ore body to the line 2100N. Especially remarkable is the high chargeability distribution with a width of about 250m between the lines 1900N and 2000N. These chargeability values are as high as the ones detected in Hay as Safil ore body. The resistivity values are above 100ohm-m.