

COBALT-GOLD MINERALS IN KÜRE PYRITIC COPPER DEPOSITS  
(KASTAMONU PROVINCE, N TURKEY) AND THEIR ECONOMIC VALUES

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ABSTRACT. — Pyritic copper deposits found in Küre as stockwork-disseminated ore at the upper levels of spillites and as massive lenses between the spillites and trillites. A strong tectonic movement appear to have been resulted in the formation of complex structures in the neighborhood of the deposit.

Up to the present day, the deposits have been mined for copper and pyrite, the main pre-bearing minerals being chalcopyrite and pyrite. In addition to these, linneite, brawoite (cobalt minerals) and native gold, which are all of the grade above economic cut-off, have been obtained. The deposits have an approximately 13 m.y.t. of ore with the cobalt and gold content of 0.3 % and 2.48 g/ton respectively. According to the estimates based on march 1981 prices, cobalt, gold and copper content of the deposits are equivalent to US \$ 2 194 155 000, US \$ 592 200 000, and US \$ 544 194 770 respectively. Thus, in the deposits, gold has an economic value slightly more than copper and cobalt has an economic value approximately four times of copper.