Some tuffs and dispersed pyroclastics are found in the Sarmatian sections, and sor tuffs – in the Meotian-Pontian (?) and the Pliocene ones. The tuffs are rhyodacitic and rhy litic, and belong to the high-K calc-alkaline series. As a rule they are unevenly to strong altered into kaolinitic clays or bentonites.

The Quaternary ash teptra is trachytic and belongs to the high-K transitional serie Five occurrences are established. Three of them are located in caves. In the Prohodn Temnata dupka cave system the teptra is situated between two layers containing paleol hic artifacts. About 95% of it is composed of angular ash glass shards (N = 1,523). Accc ding to the macropetrochemical features the Quaternary ash is very close to that establi hed in Francheti cave (Peloponnesos, Greece). It belongs to the «Campanian ignimbrite series» and is connected to one of the paroxysmal freatomagmatic events which accompanied the formation of the Neapolitan caldera (Italy) in the time span between 38,7 and 24 ka.

MINERALOGY AND MINERAL CHEMISTRY OF SULFIDE MINERALIZATIONS WITH GOLD IN THE STANOS AREA, VERTISKOS FORMATION, CHALKIDIKI

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The present paper deals with the mineralogy, texture and mineral chemistry of sulfid mineralization from the sites Paliomilos, Chalkoma, Karabogia and Kasida located in th Stanos area, Chalkidiki Peninsula. The mineral assemblages consist mainly of pyrite, arse nopyrite, chalcopyrite and in smaller proportions of sphalerile, pyrthotite, galena, Co-Ni su fides, bismuthinite, sulfosalts of Bi and Cu-Ag-Sb, gold-electrum, telluride of Bi, molybdenit and Fe-Ti oxides. The mineralizations in the former three sites are deformed and metamor phosed contrary to the fourth. On the basis of arsenopyrite geothermometry and sphalerit geobaromety applied in the paragenetically first assemblage pyrite + pyrrhotite (hex) sphalerite + arsenopyrite temperatures of 460-510°C, sulfur fugacity of 10-4.2 - 10-5.6 atr and pressures 5.6 \pm 0.8 kb were obtained. These conditions were found to be comparable with those indicated by the silicate mineral assembleges of the host rocks, thus suggestin formation of early phase of mineralization before or during the peak of the Jurasic-Uppe Cretaceous amphibolite facies regional melamorphism. The remaining assemblages of th sulfide mineralization including gold in the former three sites have been formed during th retrograde greenschist metamorphic episode and subsequently the sulfide mineralization a the Kasida site.