

# Alpine Type Quartz Veins of the Fold System of the Greater Caucasus (Within Georgia)

Nodar Poporadze<sup>a</sup>, Olga Seskuria<sup>b</sup>, Natia Inanashvili<sup>c</sup>

nodar\_poporadze@yahoo.com<sup>a</sup> , [olikoseskuria@rambler.ru](mailto:olikoseskuria@rambler.ru)<sup>b</sup> , [natiainanashvili@yahoo.com](mailto:natiainanashvili@yahoo.com)<sup>c</sup>

Department of Applied Geology, Faculty of Mining and Geology, Georgian Technical University

1075, 77, Kostava st., Tbilisi<sup>abc</sup>

The research paper presents the characteristic of quartz of various generations contained in the Alpine-type quartz veins of the Lower- and Middle Jurassic schistose terrigenous formation of the fold system of the Greater Caucasus.

Within the Alpine-type quartz veins there has been distinguished quartz of three main generations: milky quartz belongs to the first generation; the second generation is represented by elongated, often parallel quartz crystalline aggregates and the third generation - by quartz druse.

The Alpine-type quartz veins are commonly formed under the low temperature conditions and genetically they are related with metagenesis of the rocks of terrigenous formation. Mostly, quartz veins are sterile from the useful components.

Majority of the quartz aggregates contain gas-liquid inclusions of various forms and sizes that are the peculiarity of the quartz veins and define the conditions of metamorphism.

**Key words:** *quartz, alpine-type vein, generation, rock crystal.*

## References

- [1] Гамкрелидзе И.П. Вновь о тектоническом расчленении территории Грузии. Тр. ГИН АН Грузии, Нов. сер. вып. 115. 2000, ст. 204-208.
- [2] Чихрадзе Г.А. Литология юрских и меловых отложений южного склона Большого Кавказа. Тбилиси. 1981, 41 с.
- [3] Ахвледиани Р.А. Минералогия жил альпийского типа месторождений Хдесцкали и Шода. Тбилиси, Мецниереба, 1972, 74 с.
- [4] Ярошевич В. З., Аревадзе Д. В., Чхаидзе Ц.Ш. Разработать и внедрить комплекс термобарогеохимических методов поиска скрытых кварцево-жильных тел в верховьях бассейна р. Риони. Тбилиси, 1989 (рукопись).