

The Main geologic Characteristics and the Origin of the Vein Magnesite Deposit of Goles (Serbia)

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The main geological characteristics of the Goles deposit, which is the largest vein magnesite deposit both in Yugoslavia and in the world, are presented. On the basis of the characteristics and of the results of studies of Hg content in magnesite and of isotope composition (C i O) of the magnesite, the origin of the deposits is considered. It is concluded that the deposit is of hydrothermal origin but the magnesite-forming hydrothermal solutions originated from meteoric water. Explanations of the sources of the substances dissolved in the solutions, of the mode of their transportation and of the way of their deposition are offered.