COMPARATIVE ANALYSIS OF SULFIDE SFEROLOIDOV GOLD-BEARING CONGLOMERATES OF THE WITWATERSRAND IN SOUTH AFRICA AND MODERN HYDROTHERMAL SYSTEMS IN KAMCHATKA

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The paper presents results from comparative study of spheroids iron disulfides («pyrite fraction») from the world-famous gold-bearing conglomerates of the Witwatersrand and spheroids sulfides formed in reactions of interaction between natural hydrothermal solution and volcanic rocks in modern active hydrothermal systems in Kamchatka Region (Dvuhyurtochnaya and Mutnovskaya). The obtained data show that hydrothermal processes are involved in the formation of the Witwatersrand deposits.

Keywords: spheroids, Dvuhyurtochnaya, Mutnovskaya hydrothermal systems, gold-bearing conglomerates, Witwatersrand.