

GOLD-PLATINUM-BEARING ORE-HOSTING SYSTEMS OF STRATIFORM TYPE WITHIN THE PRE-CAMBRIAN FORMATIONS OF MIKHAILOVSKY ORE CLUSTER OF KURSK MAGNETIC ANOMALY

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In our country some types of iron ores, concentrates and some enclosing rocks may well be considered as unconventional sources of precious metals. Kursk Magnetic Anomaly basin is unique due to its huge reserves and significant tonnages of mined and processed iron-ore material. Multipurpose utilization of iron ores and enclosing rocks of certain deposits of KMA can make a significant contribution to the development of the national economy. So far four gold-platinum-bearing ore-hosting systems have been established within KMA iron-ore deposits (Mikhailovskoye, Lebedinskoye). Some of the most promising are complex gold-platinum-bearing systems of stratiform type located in contact zones of ferruginous quartzite and enclosing carbon schist. This study provides the pattern of distribution of precious metals in the system, characteristics of their occurrence forms, specifies levels of concentration and ore deposit morphology. It also provides the estimation of metallogenic potential of the ore-hosting system under consideration.