

## **Investigation of Prospective Gold Ore Deposits in the Territory of Azerbaijan Committing Modern Geophysical Methods (As a Pattern of the Gillar Deposit in the Gadabey Region)**

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**Abstract :** This paper discusses the results of electric and gravimetric surveys carried out using modern geophysical methods, including new-generation equipment and advanced processing software, in the detailed study of the geological-tectonic structure of gold, silver, and copper deposits in the Gadabey region. The results of these surveys also involve the discovery and exploitation of ore areas located close to the deposit zone.

**Keywords :** ore deposits, geophysical methods, electrical prospecting, gravimagnetic prospecting methods, volcanogenic-sedimentary rocks, ore masses, quartzized porphyrites, chloritized, epidotized, kaolinized

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