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EXPLOITATION OF THE ROYAL DEPOSIT OF DACITES (STRUCTURAL AND GEOGRAPHICAL ASPECTS)

Purpose - constructive-geographic generalization of the stock status of the Royal deposit of dacites.

Method. The study uses methods of processing geographic information: system analysis, landscape, ecological, cartographic, historical, descriptive, comparison and forecasting, principles of optimization of the natural environment. The analysis and calculation of the remnants of the previously explored reserves of dacites of the Royal deposit was carried out.

Results. Physical and mechanical tests of dacites of the Royal deposit were performed. To study the hydrogeological conditions of the deposit of dacites below the 130 m mark, drilling of a hydrogeological well with a depth of 50 m was performed and a test run of water was made at one level down. According to the study, the balance of previously investigated reserves of dacites of the Royal deposit is 921.3 thousand m³, which corresponds to the data of the mine surveying service of the quarry on residual balance reserves. It was established that the total reserves of the field dacites together with the well-known plot are 9061.5 thousand m³

. The remainder of dacite reserves prepared for extraction is 1512 thousand m³

. The volume of useful minerals in the major part of the deposit is 591.5 thousand m³

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Scientific novelty. The peculiarities of methodological approaches to the investigation of dacites of the Korolivsky deposit are analyzed. The prospects of ecological and economic use of dacites of the Royal deposit are substantiated.

Practical significance. It is established that the quality of raw materials of the Royal deposit of dacites, including the part of the current site, is rather stable. By degree of exploration, the reserves of dacites in the most famous area of the Royal deposit are classified as category A.

Key words: deposit, volcanic rocks, useful component, openings, open development.

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