

TRIAL INDUSTRIAL MINING-SEPARATION COMPLEX

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The report is constructed as the comment to a videoclip showing work trial of industrial mining-separation complex (IMSC), working on deposit Kokpatas. In the report basic cycles of the technological circuit of enrichment gold-containing on IMSC are explained, and the special attention is given work of irradiation-measuring (IMD) and separating (SD) devices.



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THE CENTRAL GAMMA - ACTIVATION LABORATORY

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In the report necessity of use of gamma - activation analysis (GAA) for express quantitative definition of the contents of gold in representative weights of powder samples is proved. The history of creation of a method and GAA laboratory on mine "Muruntau" is stated. The description of work of installation of GAA and calculation of the contents of gold in analyzed samples is given.

Now scheduled productivity of Central laboratory GAA (CL GAA) has reached 3000 analyses in day (500 thousand tests one year at five-day working week and work in two shifts). Since time of creation of laboratory it is executed about 9 million analyses of tests.

The method allows to carry out the analysis of samples with the contents of gold from above 0,3 - 0,7 g/t (depending on presence of preventing elements) without restriction of the top limit under the contents of gold (at use of corresponding standards).



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OPERATIVE AND INFORMATIVE NUCLEAR-PHYSICAL QUALITY MONITORING OF TECHNOLOGICAL PROCESS

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In Navoi region more than 40 years extraction of uranium and more than 35 years of gold are conducted. For the element analysis of ores and the technological products containing uranium and gold, various physical and chemical and nuclear-physical methods of the analysis are applied. The last possess a number of advantages, due to their high sensitivity, an