

**EXPIRIENS OF STUDY MINERALS FROM  
KIMBERLITE OF YAKUTIA**

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The study of mineral composition of rocks is necessary for the decision of some problems of operational and search geology. By searches of diamond deposits the changed products of destruction kimberlitic rock in sedimentary collectors, minerals around pipe spaces and own kimberlitic rock are studied. The material which has been saved up for more than 25 years of X-Ray powder Diffraction analysis researches kimberlites of Yakutia, allows for the majority of minerals, to track a range of change of their interplane distances and intensity, to define changeable and stable reflexes. Results of researches are generalized in the form of the table of interplane distances kimberlitic minerals in comparison with reference card file JCPDS. The noticed features diffraction pictures of minerals from a great bulk kimberlites are connected first of all with unique physical and chemical conditions of formation kimberlites, and their subsequent postmagmatic changes. By means of X-Ray powder Diffraction analysis it was possible to find out about 10 minerals which were not marked earlier in kimberlites, for example: greigite, muskovsite, brugnatellite, collingite, charlesite, native sulfur and others. Identification of minerals is confirmed by results crystallographic studying and microprobe the analysis.