

TECHNIQUE OF GEOPHYSICAL ANOMALIES INTERPRETATION IN ORE AREAS OF BURYATIYA.

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It was selected from more than 100 known methods of interpretation after approbation about 25 the most effective ones at a stage of preparation initial data given for interpretation. The recalculations and transformations of fields on the computer were carried out. For discharge of a regional background and residual anomalies are the most effective visual - graphic and method of polinoms on the equation regression.

The decision of a task about contact a surface and modeling is carried out by a trial and error method manually and on the computer. Up to depth 300 m the cut section is selected till a curve V_{zx} , and is final - till a curve Δg . By the plans izolines Δz and Δg the volumetric models pyrite - polimetallic deposits are created under the program "Contour". Under the program "Namag" were calculated the magnetic moment and depth up to bottom of the ore bodies.

The prognostic estimation of ores stocks are carried out by direct accounts and integrated method. On all known deposits of iron the increase of ores stocks many times over, was predicted as the known ore bodies did not compensate the revealed abnormal weights, and the gravitational weights in some times surpassed magnetic ones. In process of prospecting by drilling our forecasts completely have proved to be true. The stocks of iron were increased at 10-15 times at the expense of flanks and deep horizons; it were revealed copper-barite, boron-polymetallic, gold-polimetallic and appatit-magnetite deposits.

The complex interpretation of the geology-geophysical data is carried out on a final stage. The various cards are compiled: structural - tectonic, forecasts combined favorable attributes, division into districts, etc. This experience may be used in future geophysical investigations in Buryatiya and other districts.