

A NEW APPROACH TO INTERPRETATION OF ELECTRICAL LOG DATA AND ITS APPLICATION IN THE SANDY-CLAY ROCK CONDITIONS OF URANIUM MINE FIELDS EXPLOITED BY IN SITU UNDERGROUND LEACHING

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Abstract. The new approach for interpretation of electrical log data in the conditions of a sandy-clay rock sequence of uranium mine fields, exploited using the underground in situ leaching method, is suggested. Possibility is shown of constructing the empirical correlation between the filtration factor and the normalized geophysical parameter on the basis of the exploration data on the mine field, which can be used for automated interpretation. The algorithm of automated interpretation of electrical log data and its application are described for the example of the Uyuksky ore horizon of the Kanzhugan uranium mine field in Kazakhstan.

Keywords: apparent resistivity logging, automated interpretation, exogenic uranium mine fields, in situ underground leaching.