

# **The Adaptive Standardization of the Well Logs Data**

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On oil and gas fields of Western Siberia the efficiency of use of radioactive logs at well logs data interpretation is essentially underestimated because a zero line and record scale of the diagrams has discrepancy to each other in different wells. This problem is caused poor-quality standardization of the well logging tools.

There are various standardization methods at a stage of well logs data processing such as account of relative parameter or statistical standardization. Such methods assume existence of basic layers and intervals with constant properties on all area of processing. In a case, when the properties of basic layers and intervals really vary, the using of the given standardization methods can result in regular distortion of the well logs data.

Therefore we develop a technique statistical standardization of the radioactive logs data, taking into account change of properties of a basic interval. This technique provides automatic adaptation under geological conditions of each well (the adaptive standardization). Such opportunity exists, since some well logging methods depend on the similar factors and they can be coordinated among themselves. For example, in a terrigenous sequence the log diagrams of the Gamma Ray and Spontaneous Polarization, Neutron and Lateral Log are coordinated with each other very well.

The confirmation of more authentic results of well logs data interpretation at use of a technique adaptive standardization in comparison with traditional techniques is increase of correlation factor between results of well logs data interpretation and hydrodynamic test data.