

O12-1**PROSPECTS OF THE APPLICATION OF RADIOMETRY IN
THE SEARCH FOR OIL AND GAS DEPOSITS****CHINGIZ S. ALIYEV**

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The experience of the study of the radioactive fields in Azerbaijan showed that in the gamma-field of the surface of the earth the oil and gas structures as well as geological construction and especially tectonically active elements are clearly expressed there.

It was determined that in the natural-field of the surface of the earth in the oil and gas regions some changes were recorded. They were expressed in the lowering of its values above the fields.

When conducting radiometric works in the Lower Kura depression, the gamma-anomalies of a low radioactivity were determined. They were characterised by oval form with main changes of the intensity of the gamma-radiation.

Most of these anomalies coincided with the known oil fields located within the anticlinal structures.

The experience of the radiometric studies showed that the distribution of the gamma-field in addition to the other factors depended upon the concrete geological-geochemical situation in the region.

If within an oil and gas province the majority of the known oil and gas deposits expressed themselves in the gamma-field by typical anomalies, according to the methods of the analogy, the anomalies like those in the area with a non-determined oil and gas content could be a searching sign for the determination of the anomalies of hydrocarbons in the Earth's interior.