

PRINCIPLES OF COMPLEX OF GEOPHYSICAL METHODS BY STUDY OF EARTH CRUST STRUCTURE OF DEPRESSION ZONES

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Structure of depression zone is hidden by thick cover of the Quaternary formations.

To solve the geologic tasks (discovery of active-living structures, geodynamic zones, oil-gas accumulations, etc.) the complex of geophysical methods is used. Complex of methods must answer two main requirements:

- obtained information allows solving a direct task as regarded the south-for object;
- methods themselves must be simple and economical

The choice of geophysical complex is based on principles of analogy with study on standard objects and after the some features (not over 10) after the mathematical processing (PC) the parameters of "K" perspectivity are chosen.

$$K = \frac{\prod_{i=1}^n P_{1i}}{\prod_{i=1}^n P_{2i}}$$

where P_1 and P_2 - possible signs of discovered on structures with known oil-gas content on obviously "empty" structures. Structures with K_1 are more prospective.