

QUANTITATIVE PROGNOSIS OF OIL AND NATURAL GAS FIELDS

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ABSTRACT:

Technology of practical use of remotely sensed data is shown in the study. A developed method is intended for quantitative estimation of territories in the presence of petroleum, natural gas and minerals. The scale of works is 1:10,000 to 1:200,000. At all stages of works the software ERDAS Imagine, GIS-technologies and authors' developments are used. Prognosis estimation of the territory prospectiveness is based on the use of relationship between the features of oil and natural gas deposits and explosive structures of a different scale level. The forecast of deposit location will be carried out on the basis of the complex attributes. As a result of the study a quantitative estimation of probability for determination of objects of the forecast in each point of the research area were obtained. The research point responds to the minimal area, which is identified in satellite digital imagery (5#5#, 15#15#, 30#30# etc.). The results of the successful use of method in different territories are considered.

TOPIC: Remote sensing applications

ALTERNATIVE TOPIC: Remote sensing applications