

Information and analytic system for monitoring of the hydrocarbon reserves and resource.

¹ ERMAKOV B.V., ¹ ERKHOV V.A., ² KELLER M.B., ³ VAINCHTOK A.P., ³ GITIS V.G. ¹VNIGEOFISICA, ²MNR RF, ³IITP RAS

The analysis of resource base hydrocarbons, monitoring of its condition is urgent task. At realization of license policy and investment of financial assets on realization of prospecting works in various oil and gas bearing regions, zones oil and gas accumulation are necessary are to taken into account the cumulative production, initial oil and gas reserves, degree of an exhaustion of the explored reserves, distribution of reserves and resources on various categories extent of exploration. With this purpose it is important to have a complete database, means it actualization and methods of the analysis for revealing the tendencies of change of resource base in time. These requirements are answered created on the basis of system IRIS by information and analytic system monitoring of the hydrocarbon reserves and - "RESOURCE". The system supports decision of the following tasks: Registration of new geological information resulted from regional geophysical exploration and drilling and used for an evaluation of reserves and resources. Registration of new information about variation of reserves in different extent of exploration indexes; passing of resources to reserves and elimination of reserves from production categories. Automated recalculation of resources and reserves in extent of exploration indexes on the base of updated information. Spatial reference of monitored objects according to administrative region, geological structure, stratigraphic complex, oil/gas area, deposit, drill. Analysis of spatial referenced data to study of the trends in variation of oil/gas resources and reserves. The RESOURCE System Facilities: Variety of available visualization methods of spatial data to be analyzed Automated generation of the maps and graphical data representation saves the user's time and efforts.