Geylani M. PANAHOV, Qabil A. ALIYEV, Nazim A. VELIYEV, Najafkuli B. NAJAFKULIYEV

ESTIMATING ACTIVE GAS IN UNDERGROUND GAS STORAGES SUBJECT TO ADSORPTIONAL PROPERTIES OF A RESERVOIR AND INTERFORMATIONAL CROSS FLOW CONDITIONS

Abstract

One of the important factors of effective functioning of undergraund gas storage (UGS) is regulation of amount of injected and extracted gas.

Certain estimation of capacity of pore space and also calculation of amount of active and buffer gas in connection with its effusion and adsoption allows to exclude contradictions in the process of seasonal gas supply industrial and consumer services systems.

In the paper a new method for estimating gas loss as a result of effusion and adsorption processes in formation systems is given applied and analytic solution methods of the stated problem are reduced.