

The use of horizontal wells in inhomogeneous carbonate reservoirs (Cherepetsky horizon of the south-east of the Tatarstan Republic)

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Abstract

Due to the deterioration of the development of oil deposits in clastic reservoirs, last time actively are introduced to the development of carbonate reservoirs with heavy and viscosity oil. Such reservoirs are often characterized by a strong heterogeneity of porosity and permeability and lithological types of rocks. Effective development of oil reservoirs in carbonate reservoir rocks needs in application of new technologies of complex stimulation to reservoirs with using of horizontal wells. It is necessary to study the reaction of the reservoir for additional stimulation and targeted actions of acid solutions. It must be defined sequence of operations in acidizing of low productivity reservoir rocks. Acid solutions are cheap but ineffective. Acids impact to the heterogeneous reservoirs with using the horizontal wells more effective. In the development of deposits in carbonate reservoirs essential help is given by purposeful conducting of horizontal and multilateral wellbores.

Keywords

Carbonate reservoir, Exploration effectiveness, Horizontal wells, Purposeful wiring, Reaction of reservoir