PACKER INSTALLATION TO INCREASE EFFICIENCY OF FRACTURING OPERATIONS

Background
Fracturing technology is widely used for intensification of oil production. The main purpose of fracturing is to increase the well productivity. Normalization of bottomhole zone after the fracturing is often followed by fracture clogging (colmatation and recolmatation) of the transit layer by buffer fluid. Fracture clogging and the transit layer colmatation during normalization of the bottomhole zone after the fracturing is a topical question. The paper demonstrates positive effect of applying PC-168C packer system, which excludes normalization of the bottomhole zone after the fracturing.

Aims and Objectives
To implement the hydraulic fracturing on the vertical part of the well by temporary isolation of horizontal liner. To prevent the clogging of the productive stratum allowing to eliminate the bottomhole normalization stage for the investigated well.

Methods
Implementation of packer system PC-168C of Packer Tools Production Company OOO.

Results
Test implementation of the technology was done on the experimental well. The well has the vertical and the horizontal parts, the fracturing was done on the vertical part with temporary isolation of the horizontal one. Use of the packer produced by Packer Tools Production Company OOO eliminated the necessity of bottomhole zone normalization after the hydraulic fracturing and reduced the time to start production. Production income is 10 tonnes / day, economic effect due to reduction of the workover time is 1,7 million Russian rubbles.

Key words: hydraulic fracturing, packer system, hydraulic fracturing with isolation of horizontal part, bottomhole zone normalization, recolmatation of fracture (repeated colmatation)

References


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