

The press service of the Perm National Research Polytechnic University (PNIPU) reported that the university experts, together with Chinese colleagues, developed a new composition for acid hydraulic fracturing of the formation. The main feature of the development is the ability to completely decompose, without leaving harmful precipitation in the well.

Conventional acidic compounds used in the extraction of hard -to -recover oil are often not effective enough. They can poorly penetrate into dense rocks and leave pollution behind. The new solution solves these problems - it has increased heat resistance (14% higher than analogues) and is able to independently find the way into hard -to -reach sections of the layer.

As explained by the director of the Kogalym branch of PNIP, Vladimir Poplygin, the development is based on special surface-active substances. If they get into the layer, they turn acid into a gel -like mass, which is evenly distributed and creates a network of cracks. After the process is completed, the gel loses viscosity under the influence of oil or reservoir, which allows you to easily remove its residues.

According to the university, the new solution not only increases the efficiency of production, but also reduces the operational losses of the solution by 55% compared to traditional compounds. In addition, the technology minimizes environmental damage, which is especially important when working with hard -to -reach deposits.