

Petroleum Engineering

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Development of technology of pulse hydraulic fracturing

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The most effective ways of processing of a well – hydraulic fracturing, torpedoring, chemical processing are most expensive, ecologically dangerous technologies. In most cases creation of long cracks of hydraulic fracturing is unprofitable – gives low effect and leads to flood.

I suggest to apply the pulsing hydraulic fracturing pressure to creation of a network of short cracks.

- It is economic, the constant high pressure isn't required, powerful pump units aren't used, the technology of multistage hydraulic fracturing isn't applied, a large number of people and equipment isn't required.
- Cracks extend in all directions, inflow of oil is carried out from all directions.
- On it is required to fix cracks by a proppant. After repeated processing aren't closed by pressure of a crack yes of the end.
- The chemical reactants which are negatively influencing ecology aren't applied.
- Application for extraction of slate oil and gas is especially effective.
- Example. The technology of pulse and wave processing for delivery wells which I developed is repeatedly tested on crafts of the Volga region, Kazakhstan and China. For work hoisting works aren't used, 2 cars are used, work is carried out by 2 persons. The technology is successfully applied.

Together with National Mineral resources university work on creation of hydraulic fracturing in coal layers for preliminary removal of methane is carried out. The pulse and wave technology of creation of cracks for the extracting oil and gas wells passes tests, in the industry isn't applied yet.

Biography

Alexander Shipulin Vladimirovich have graduated from the Leningrad mining institute in 1976. He worked as the head of the laboratory and the teacher in mining institute for 30 years. He was a Candidate of Technical Sciences had received degree in 1994. He was the full member of the International power academy since 2000. He directed the company on repair of oil wells for 12 years. He has published 130 scientific works, 3 books and had taken out 92 patents for inventions. Currently he is an individual businessman-researcher and perform some works together with National Mineral resources university.

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