

PetroBOOST

Boosting oil&gas well production



PetroBOOST
stimulation

Content

% Description

& Scope of use

' Advantages

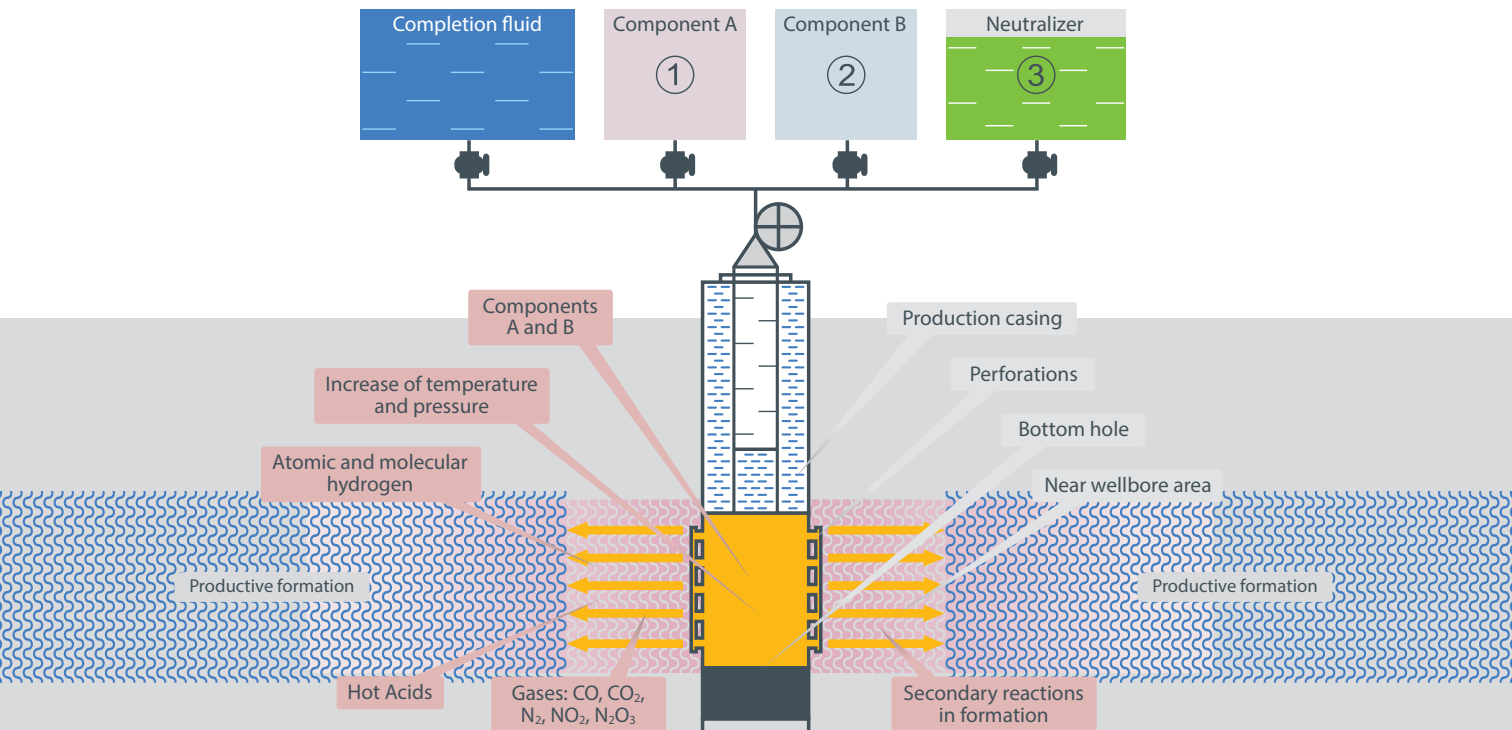
6 Easy to implement

) Success stories

* 5a` fSuf

Innovative technology for development conventional and unconventional oil and gas reserves

PetroBOOST Technology is based on complex (integrated) thermal-baro-chemical bottomhole formation zone deep treatment which realized by controlled multistage thermal-gas-chemical process taking place in the near well bore area Using high-energy combustible and oxidizing mixtures reaction energy reaches 14–20 MJ/kg and hydroreacting agents (HRA) based on sodium, aluminum, lithium and boron, which react with water and generate activated (atomic) hydrogen.



Scope of use

- 1 Hard-to-recover reserves;
- 2 Heavy oil deposits (asphalts, resin and paraffin deposits);
- 3 High content of paraffin in oil;
- 4 Viscous oil;
- 5 Low-permeable reservoir and tight formation;
- 6 Condensate banking;
- 7 Salt deposits;
- 8 Drilling muds and cement muds formation damage.

Advantages

- 1 Integrated and multifactor action on the reservoir formation, bridging agents and fluids that saturate the formation;
- 2 A single treatment eliminates simultaneously all the causes of reservoir damage;
- 3 Substantial increase in permeability, effective porosity and reduced skin-factor;
- 4 Final reaction products have no adverse impact on the quality of extracted hydrocarbons;
- 5 Stimulation fluids and reaction components are environment friendly;
- 6 The duration of the action effect is several years;
- 7 Extended well workover period;
- 8 Substantial increase in complete extraction of hydrocarbons.

Easy to implement:

- 1 Adaptability to geological and construction features of a particular well;
- 2 High controllability of the multi-stage thermal-gas-chemical process as regards the main parameters (temperature, pressure, and chemical reaction flow);
- 3 Development of the design of each well treatment, including:
 - Diagnostics of the causes of low well productivity
 - Simulation and calculation of the integral action of the PetroBOOST technology with account of well individual characteristics
 - Prognosis of effectiveness and flow rate.

* Computer simulation and calculations are performed using advanced, including proprietary, software.

Success stories

Russia, Novy Urengoy Oil Fringe



Ukraine, Bugrevatovskoe Oil Well



Russia, Novy Urengoy Oil Fringe



Turkmenistan, Barsy Gelmeh Oil Well



Russia, Pikhtovoe Oil Well



China, Daqing Oil Well





PetroBOOST

Nobel street, 7, Moscow, 143026, Russian Federation
Skolkovo Innovation Center

+7 495 2016-432

info@petroboost.ru

www.petroboost.ru/eng

