

# OIL PRODUCTION INTENSIFICATION TECHNOLOGY



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## OBJECTIVES

Intensification of oil production by oil producing and service companies



## AREAS OF USE

Oil Production

## LEGAL DEFENSE

Patent of the Russian Federation N° 2610952 – Micellar solution for oil production



## PECULIARITIES

The project is devoted to intensification of oil production process in the terrigenous and carbonate reservoirs including high-viscosity oils fields.





The technology of ultrasonic treatment involves layers collectors processing with a powerful ultrasonic field for their filtration features recovery. Processing is carried out on the principle of “inflow profile-stimulation profile”. Production string integrity and cement stone is kept within the process and, what is more, the impact process is safe and environmentally friendly. The technology allows to achieve filtration features recovery of productive layers at the minimum time and material costs without damage to the collector. Surfactant-modified acidic compositions and their application technologies developed in the project allow to process oil-saturated streaks in carbonate reservoirs selectively. The technology of high-viscosity oil production intensification and limitation of water inflow micellar solutions of selective operation is based on different behavior of developed composition in contact with reservoir fluids which results in increasing viscosity in a mixture with highly mineralized water and reducing it in contact with oil.



#### CORE COMPETENCIES

#RESERVOIR RECOVERY, #SURFACE-ACTIVE REAGENT, #MICELLE SOLUTION



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