ANALYSIS OF EFFICIENCY OF THE EXISTING NORTH BUZACHI DEVELOPMENT SYSTEM UNDER TERMINATION OF NON-STATIONARY FLOODING AND CHANGE OVER TO HOT WATER INJECTION

Background
A unique situation arose in the development of North Buzachi heavy oil field, where techniques of non-stationary flooding and thermal stimulation have been tested sequentially. Since prior to change over to thermal stimulation stationary water injection was used, it was possible to study the reaction of the development system to termination of the cyclic water injection and start of heat stimulation.

Aims and Objectives
To assess, on the basis of evidence, the technological efficiency of changing over from the cyclic injection to stationary flooding and, subsequently, to thermal stimulation.

Methods
Analysis of the actual data by plotting displacement characteristics.

Results
It is shown that positive effect of the hot water injection of hot water in the considered zones of the North Buzachi field remains unproved. On the other hand, the termination of non-stationary treatment and change over to stationary water injection is always accompanied by increasing water cut. However, if the reservoir pressure rises as the result of greater compensation of extraction by water injection, subsequent reduction of water cut and increased oil production are observed. Obviously, a line of priority in developing high-viscosity oil deposits is generation of high pressure gradients.

Key words: non-stationary flooding technique, thermal stimulation, geological and technical activities

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