

Technological task № 32

1	Technological Task 32	Development of a methodology for repair and insulation works with high indicators of prolonged water flow restriction
2	Problem Statement:	The majority of wells after a short dry period are intensively watered, thereby reducing the oil flow rate. At the same time, the problem of high water cut is observed both in vertical wells and horizontal wells, and the water cut value exceeds the withdrawal from initial recoverable reserves, i.e. the water cut dynamics does not correspond to the design displacement characteristic. Due to the large permeability heterogeneity of the section, injected water intensively moves through the most permeable formations. As a result, oil reserves in less permeable layers are not brought into development. In order to reduce water cut at the field, geological and technical measures - RIFs - were carried out, but they did not bring the expected effect. In order to improve the profitability of development and increase oil recovery, it is proposed to carry out research and development work on the development of the most effective for the conditions of the field technology of water shut-off using a polymer reagent to limit water inflow.
3	Required Technological Parameters:	Water cut by more than 5%, net oil production growth by more than 10%
4	Scale of the Problem:	Increase in water cut, decrease in oil recovery rate and economic indicators.
5	Existing Methods for Solving the Problem:	Injection of cross-linked polymer compositions.
6	Contact Person: Name, position, phone, email.	
7	Expert Notes.	