

Method for removing microbial contamination from drilling fluid tanks

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The invention involves a method for removing and/or controlling microbial contamination in the tanks dedicated to drilling fluids preparing and storage. The tanks are constructed to prepare and to storage the water-based muds used during drilling. The microbial contamination disturbs crude oil or gas exploitation and can lead to biodegradation processes which negatively effect on the quality of drilling muds.

The method is based on synergic action of two bioicidal agents N,N-methylene-bis-5-methyloxazolidine and magnesium peroxide. The method based on applying the mixture of these agents into the selected tank, the quantity of applied mixture is estimated to storage capacity of the tank (1-2% of capacity) and the level of microbial contamination.

The invention has been tested in laboratory, the microorganisms isolated from

drilling muds (used during drilling process in Polish Gas Storages, and Polish hydrocarbons reservoirs) were the subject of these laboratory tests.

