

TOWARDS INCREASE OF OIL PRODUCTION

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Abstract: The impact of binary mixture of ammonium nitrate with an oxidizing agent on the watered collector is considered. Because of the strong temperature dependence of the transport coefficients, the propagation of heat from the well looks like the motion of a single wave having a relatively sharp front and small gradient behind the front. A connection between the mass of the recovered hot fluid with a mass of nitrate introduced into the well and the parameters characterizing the initial state of the collector has been obtained.

Keywords: binary mixture; ammonium nitrate; heat transfer; heat of reaction; collector; thermal wave; hot fluid; paraffin's softening

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