

VARIANTS OF MODES OF BINARY MIXTURE APPLICATION FOR STIMULATING OIL PRODUCTION

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Abstract: Flow and decomposition of the ammonium nitrate in the collector are investigated theoretically as a function of speed of binary mixture injection into the well. Two variants of calculation of the temperature attained at the decomposition of aqueous solution of ammonium nitrate (300 cm³ of water per 1 kg of ammonium nitrate) are suggested: one for the solution filling the porous rocks and another for the free volume. Both calculations are made for the isochoric process.

Keywords: binary mixture; ammonium nitrate; heat release; intermediate asymptotics

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