

Title (en)

METHOD FOR HYDRAULICALLY FRACTURING A SUBTERRANEAN FORMATION USING ALUMINIUM PARTICLES

Title (de)

VERFAHREN ZUM HYDRAULISCHEN FRACKEN EINER UNTERIRDISCHEN FORMATION UNTER VERWENDUNG VON ALUMINIUMPARTIKELN

Title (fr)

PROCÉDÉ DE FRACTURATION HYDRAULIQUE D'UNE FORMATION SOUTERRAINE AU MOYEN DE PARTICULES D'ALUMINIUM

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Application

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Abstract (en)

[origin: WO2014167012A1] The present invention relates to a method for hydraulically fracturing a subterranean formation, into which at least one bore is sunk, comprising the method steps of: (a) introducing a fracturing liquid (FL) through the at least one bore into the subterranean formation at a pressure that is greater than the minimum local rock stress in order to create fracturing cracks (FR) in the subterranean formation, wherein the fracturing liquid (FL) contains water and aluminium; and (b) providing a rest phase, in which an exothermic oxidation reaction occurs between the aluminium and the water of the fracturing liquid (FL). The invention further relates to a fracturing liquid (FL) that can be used in the method of the invention.

IPC 8 full level

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