

Title (en)
INCREASING FRACTURE COMPLEXITY IN ULTRA-LOW PERMEABLE SUBTERRANEAN FORMATION USING DEGRADABLE PARTICULATE

Title (de)
ERHÖHUNG DER BRUCHKOMPLEXITÄT IN UNTERIRDISCHEN FORMATIONEN MIT SEHR GERINGER DURCHLÄSSIGKEIT MITHILFE ABBAUBARER TEILCHEN

Title (fr)
PROCÉDÉ D'AUGMENTATION DE LA COMPLEXITÉ DE LA FRACTURE DANS UNE FORMATION SOUTERRAINE À PERMÉABILITÉ EXTRÊMEMENT BASSE À L'AIDE D'UNE MATIÈRE PARTICULAIRE DÉGRADABLE

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Abstract (en)
[origin: WO2012104582A1] A method of increasing the fracture complexity in a treatment zone of a subterranean formation is provided. The subterranean formation is characterized by having a matrix permeability less than 1.0 microDarcy (9.869233 x 10⁻¹⁹ m²). The method includes the step of pumping one or more fracturing fluids into a far-field region of a treatment zone of the subterranean formation at a rate and pressure above the fracture pressure of the treatment zone. A first fracturing fluid of the one or more fracturing fluids includes a first solid particulate, wherein: (a) the first solid particulate includes a particle size distribution for bridging the pore throats of a proppant pack previously formed or to be formed in the treatment zone; and (b) the first solid particulate comprises a degradable material. In an embodiment, the first solid particulate is in an insufficient amount in the first fracturing fluid to increase the packed volume fraction of any region of the proppant pack to greater than 73%. Similar methods using stepwise fracturing fluids and remedial fracturing treatments are provided.

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