

Title (en)

METHOD FOR MODELING FRACTURE NETWORK, AND FRACTURE NETWORK GROWTH DURING STIMULATION IN SUBSURFACE FORMATIONS

Title (de)

VERFAHREN ZUR MODELLIERUNG EINES KLUFTNETZWERKES UND WACHSTUM EINES KLUFTNETZWERKES WÄHREND DER STIMULATION IN UNTERIRDISCHEN FORMATIONEN

Title (fr)

PROCÉDÉ DE MODÉLISATION D'UN RÉSEAU DE FRACTURES ET DE LA CROISSANCE D'UN RÉSEAU DE FRACTURES PENDANT LA STIMULATION DE FORMATIONS SOUTERRAINES

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Application

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Abstract (en)

[origin: WO2010115211A1] A method for modeling fracture network and fracture network growth during stimulation in subsurface formations is disclosed. According to one embodiment, a computer implemented method comprises receiving data comprising characteristics of a subsurface formation, generating simulated fractures based upon the characteristics of the subsurface formation, simulating stimulation of the simulated fractures by creating a plurality of injection points and stimulating from every injection point of the plurality of injection points simultaneously. Simulation results are output and displayed, the simulation results including at least one of fluid volume, fluid pressure, three dimensional geometry of a stimulated volume, potential permeability enhancement, and simulated seismic activity.

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