

Title (en)
Method and device for stimulation of an underground formation by injection of a fluid coming from an adjacent zone along fractures proceeding from a drain hole in a low-permeable intermediate layer.

Title (de)
Verfahren und Vorrichtung zur Stimulation einer Untergrundformation durch Injektion eines Fluids aus einer benachbarten Schicht, entlängs von Rissen, ausgehend von einer Bohrung in einer niedrigpermeablen Zwischenschicht.

Title (fr)
Méthode et dispositif pour stimuler une zone souterraine par injection différée de fluide provenant d'une zone voisine, le long de fractures faites depuis un drain foré dans une couche intermédiaire peu perméable.

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Application
EP 90403707 A 19901220

Priority
FR 8917482 A 19891229

Abstract (en)
[origin: EP0435756A1] The underground formation and the adjacent zone are for example an oil bearing stratum (Z1) and a subjacent aquifer layer (Z2) at a pressure greater than that in this zone (Z1). The method essentially consists in drilling at least one deviated drain hole (D) (preferably horizontal or almost horizontal) in the intermediate layer (L) which is for example a zone made to have low permeability because of the presence of heavy and viscous hydrocarbon products and in connecting the two zones by fractures in the intermediate layer proceeding from the drain hole. The drain hole can be fitted with a pipe (C) pierced by orifices over a section of its length, with stopping units (B1 to B3) allowing the total or partial confinement of the drain and with pressure means for causing fractures in the intermediate layer at the level of these confined portions. It is possible to inject water under pressure from the zone (Z2) into the oil bearing zone through the fractures which are made during production and to drain the formation better. <??>Application to the exploitation of oil bearing strata, for example. <IMAGE>

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