

Title (en)

Method for sealing off a water zone in a production well downhole and a sealing arrangement

Title (de)

Verfahren zur Abdichtung eines Wasserbereichs in einem Produktionsbohrloch und Abdichtungsanordnung

Title (fr)

Procédé d'étanchéification d'une zone d'eau dans un fond de trou d'un puits de production et agencement d'étanchéité

Publication

**EP 2143876 A1 20100113 (EN)**

Application

**EP 08012548 A 20080711**

Priority

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Abstract (en)

The invention relates to a sealing method for sealing off a leak in a casing (2) or for sealing of a production zone (1) where the casing (2) having a circumference and perforations (3) is situated in a borehole downhole, but with a distance to the inner wall of the borehole, creating an intervening space (4) there between. The sealing method comprises the steps of injecting a composition (5) for making a first circumferential seal (6) in the intervening space (4) at a first position (7) of the casing in one end of the production zone through holes situated along a first intersecting line (8) where a first plane intersects the circumference of the casing; filling the intervening space at a first position in a radial direction of the casing; injecting a composition (5) for making a second circumferential seal (9) in the intervening space (4) at a second position (10) of the casing in another end of the production zone through holes situated along a second intersecting line (11) where a second plane intersects the circumference of the casing; filling the intervening space at a second position in a radial direction of the casing; inserting a liner (12) into the casing (2) opposite the perforations (3) and extending between and at least partly covering both the first and the second circumferential seal; and expanding the liner until the liner is pressing against the casing whereby the liner together with the first and the second circumferential seal isolate the production zone. The composition is able to harden once injected into the intervening space.

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

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Citation (search report)

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- [A] WO 2005088064 A1 20050922 - HALLIBURTON ENERGY SERV INC [US]
- [A] US 2003234102 A1 20031225 - BROTHERS LANCE E [US], et al
- [A] US 2007119597 A1 20070531 - MCHARDY COLIN [GB], et al

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