

Title (en)

Method and device for securing an oil well in the event of a defect in the hydraulic control line of its downhole safety valve

Title (de)

Verfahren und Vorrichtung zur Wiederherstellung der Sicherheit einer Ölbohrung im Falle eines Defekts der hydraulischen Steuerleitung des Im-Loch-Sicherheitsventils

Title (fr)

Moyens pour la remise en securite d'un puits petrolier en cas de defaut de la ligne de commande hydraulique de sa vanne de securite de fond

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Application

EP 02075433 A 19960515

Priority

- EP 96916205 A 19960515
- FR 9506628 A 19950530

Abstract (en)

Safety process for an oil well of the type comprises a production pipe (1), a bottom safety valve called the origin valve (6) which is mounted in a sleeve (5) in the production pipe, and a hydraulic control line outside the production pipe, called the origin control line (4), supplying fluid under pressure to the valve and a fluid inlet through the sleeve to open at the valve. This process is to ensure the safety of the well if the origin control line fails. The origin valve is replaced by a special bottom valve containing hydraulic connectors along its axis on its top part, means of isolating or sealing closed the origin control line at its periphery and a movable blocking device at the bottom part closed by a fluid under pressure arriving axially via a hydraulic connection. A new hydraulic control line, called the concentric control line, is installed inside the production pipe and along its axis, and this line is connected to the special valve. Also the equipment (special valve, airlock, control line, tools) to operate this process.

Abstract (fr)

L'invention concerne des moyens pour la remise en sécurité d'un puits pétrolier en cas de défaut de la ligne de commande hydraulique (4) de sa vanne de sécurité de fond. Selon l'invention, on remplace la vanne d'origine par une vanne de fond spéciale (15) de remise en sécurité, on installe à l'intérieur du tube de production (1) une nouvelle ligne de commande hydraulique (16) et on raccorde hydrauliquement ladite ligne à la vanne spéciale de remise en sécurité. La nouvelle vanne de sécurité est donc commandée par une ligne de commande interne au tube de production (1), la ligne d'origine (4) étant désaffectée. <IMAGE>

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