

Title (en)  
TRACER INJECTION IN A PRODUCTION WELL

Title (de)  
MARKIERUNGSEINSPRITZUNG IN EINEM PRODUKTIONSBOHRLOCH

Title (fr)  
INJECTION DE TRACEUR DANS UN Puits DE PRODUCTION

Publication  
**EP 1259700 B1 20070516 (EN)**

Application  
**EP 01916357 A 20010302**

Priority  
• US 0106800 W 20010302  
• US 18650400 P 20000302

Abstract (en)  
[origin: WO0165053A1] A petroleum well (20) comprises a well casing (30), a production tubing (40), a source of time-varying current (68), a downhole tracer injection device (60), and a downhole induction choke (90). The casing (30) extends within a wellbore of the well (20). The tubing (40) extends within the casing (30). The current source (68) is located at the surface. The current source (68) is electrically connected to, and adapted to output a time-varying current into, the tubing (40) and/or the casing (30), which act as electrical conductors for providing downhole power and/or communications to the injection device (60). The injection device (60) comprises a communications and control module (80), a tracer material reservoir (82), and an electrically controllable tracer injector (84). The communications and control module (80) is electrically connected to the tubing (40) and/or the casing (30). The downhole induction choke (90) is located about a portion of the tubing (40) and/or the casing (30). The induction choke (90) is adapted to route part of the electrical current through the communications and control module (80) by creating a voltage potential between one side of the induction choke (90) and another side of the induction choke (90). The communications and control module (80) is electrically connected across the voltage potential. The well (20) can further comprise a sensor (108) or a sensor device (140) located upstream of the injection device (60) and being adapted to detect the tracer material injected into the well by the injection device. The sensor device (140) may also be downhole, and may comprise a modem (146) to send data to the surface via the tubing (40) and/or casing (30).

IPC 8 full level  
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**WO 0165053 A1 20010907**; AU 2001243391 B2 20041007; AU 4339101 A 20010912; BR 0108888 A 20040622; BR 0108888 B1 20090505; CA 2402163 A1 20010907; CA 2402163 C 20091020; DE 60128446 D1 20070628; DE 60128446 T2 20080117; EP 1259700 A1 20021127; EP 1259700 B1 20070516; MX PA02008508 A 20030128; NO 20024137 D0 20020830; NO 20024137 L 20021029; NO 326367 B1 20081117; OA 13129 A 20061213; RU 2002126211 A 20040220; RU 2263783 C2 20051110

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