

Title (en)
METHOD AND SYSTEM FOR USING TRACER SHOTS FOR ESTIMATING INFLUX VOLUMES OF FLUIDS FROM DIFFERENT INFLUX ZONES TO A PRODUCTION FLOW IN A WELL

Title (de)
VERFAHREN UND SYSTEM ZUR VERWENDUNG VON TRACER-INJEKTIONEN ZUR SCHÄTZUNG DES ZUSTROMVOLUMENS VON FLÜSSIGKEITEN AUS VERSCHIEDENEN ZUSTROMBEREICHEN ZU EINEM PRODUKTIONSFLUSS IN EINEM BOHRLOCH

Title (fr)
PROCÉDÉ ET SYSTÈME D'UTILISATION DE BOUFFÉES DE TRACEURS POUR ESTIMER DES VOLUMES D'INFLUX DE FLUIDES EN PROVENANCE DE DIFFÉRENTES ZONES D'INFLUX VERS UN ÉCOULEMENT DE PRODUCTION DANS UN Puits

Publication
EP 2771543 B1 20170927 (EN)

Application
EP 11804832 A 20111028

Priority
NO 2011000305 W 20111028

Abstract (en)
[origin: WO2013062417A1] A method for estimating influx volumes (qi) of fluids to a production flow (F) in a well (Wr) with two or more influx locations (3) along the well - arranging tracer sources (4) with unique tracer materials (4m) in fluid communication with two or more of said influx zones (3), - each said tracer material (4m) having a predefined short duration release dose (Vt4) to the fluids in the well, - allowing said tracer sources (4) to release said tracer material (4m) to said fluids at a given release instant (tR), - after said release instant (tR), consecutively collecting samples (c1, c2, c3,...) of said production flow (F) at the topside, - analysing said samples (c1, c2, c3,...) for identifying types of tracer material (4m) and concentration of said identified tracer materials (4c), - based on said concentrations (4c, 41c, 42c, 43c) and their sampling sequence and the well geometry, sequence of said separate influx zones, calculating said influx volumes (qi) from transient flow models - using the calculated influx volumes (qi) as parameters for controlling the production flow or for characterizing the reservoir.

IPC 8 full level
E21B 47/10 (2012.01)

CPC (source: EP US)
E21B 43/00 (2013.01 - US); **E21B 47/11** (2020.05 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013062417 A1 20130502; AU 2011380070 A1 20140501; BR 112014010067 A2 20170613; BR 112014010067 A8 20170620; BR 112014010067 B1 20201124; CA 2852630 A1 20130502; EP 2771543 A1 20140903; EP 2771543 B1 20170927; MX 2014004899 A 20140801; NO 2771543 T3 20180224; US 2014343908 A1 20141120

DOCDB simple family (application)
NO 2011000305 W 20111028; AU 2011380070 A 20111028; BR 112014010067 A 20111028; CA 2852630 A 20111028; EP 11804832 A 20111028; MX 2014004899 A 20111028; NO 11804832 A 20111028; US 201114354328 A 20111028