

Title (en)
AUTOMATED HYDROCARBON RESERVOIR PRESSURE ESTIMATION

Title (de)
AUTOMATISIERTE SCHÄTZUNG IN EINEM KOHLENWASSERSTOFFSPEICHER

Title (fr)
ÉVALUATION AUTOMATIQUE DE LA PRESSION D'UN RÉSERVOIR D'HYDROCARBURES

Publication
EP 2494145 B1 20131225 (EN)

Application
EP 09789643 A 20090828

Priority
US 2009042874 W 20090828

Abstract (en)
[origin: WO2011025471A1] A method and system for estimating reservoir pressure in a hydrocarbon reservoir from downhole pressure measurements of producing wells is disclosed. Pressure measurements are obtained from wells in the production field over time, and communicated to a server that applies the pressure measurements for a well to a model of that well. The server operates the model using the pressure measurements to determine an operating mode of the well. Upon detection of a change in operating mode indicative of an abrupt change in flow at the well, such as corresponding to a shut-in event, additional downhole pressure measurement data is acquired until a steady-state condition is reached. The pressure measurements are used to determine a reservoir pressure, which is transmitted to a responsible reservoir engineer or other user. Modification of the determined reservoir pressure value by the user can be received, and the stored reservoir pressure and well model are updated accordingly.

IPC 8 full level
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CPC (source: EP)
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