

Title (en)

CONSTRANED OPTIMIZATION FOR WELL PLACEMENT PLANNING

Title (de)

EINGESCHRÄNKTE OPTIMIERUNG FÜR EINE BOHRLOCHPLATZIERUNGSPLANUNG

Title (fr)

OPTIMISATION CONTRAINTE POUR PLANIFICATION DE POSITIONNEMENT DE PUITS

Publication

EP 2948618 B1 20180822 (EN)

Application

EP 14743637 A 20140124

Priority

- US 201361756800 P 20130125
- US 201414162687 A 20140123
- US 2014013057 W 20140124

Abstract (en)

[origin: US2014214387A1] A method, apparatus and program product utilize a constrained optimization framework to generate a well placement plan based on a reservoir model. Candidate well placement plans are generated from control vectors proposed by an optimization engine to optimize based upon an objective function that generally involves an access to a reservoir simulator. Inexpensive constraints that are not based on computation of the objective function are evaluated prior to accessing the reservoir simulator to avoid unnecessary accesses to the reservoir simulator for candidate well placement plans determined to be infeasible in view of the inexpensive constraints. For candidate well placement plans that are determined to be feasible based upon the inexpensive constraints, the objective function may be calculated and additional expensive constraints may thereafter be evaluated to further determine the feasibility of candidate well placement plans.

IPC 8 full level

E21B 43/30 (2006.01)

CPC (source: EP US)

E21B 43/305 (2013.01 - EP US)

Cited by

US11346215B2; US10808517B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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