

Title (en)

METHOD IN AN OIL AND/OR A GAS PRODUCTION SYSTEM

Title (de)

VERFAHREN IN EINEM ÖL- UND/ODER GASPRODUKTIONSSYSTEM

Title (fr)

PROCÉDÉ DESTINÉ À UN SYSTÈME DE PRODUCTION DE PÉTROLE ET/OU DE GAZ

Publication

**EP 2059653 A4 20141112 (EN)**

Application

**EP 07804835 A 20070828**

Priority

- IB 2007002460 W 20070828
- NO 20063837 A 20060829
- US 84070506 P 20060829

Abstract (en)

[origin: WO2008029232A2] The present invention relates to a method in an oil and/or a gas production system comprising a plurality of oil and/or gas wells and means adapted for oil and/or gas production parameter testing. The method is adapted to compare a plurality of options related to the oil and/or gas throughput in the oil and/or gas production system, and includes the steps of: a) drawing a plurality of parameter samples from a parameter distribution; b) generating, for each parameter sample, a performance measure by using said parameter sample and a characterizer for each of said options, and c) generating an aggregated performance measure for each of said options by using said performance measures. The parameter distribution and the generation of the performance measure are preferably obtained by a Monte Carlo simulation by using historical and/or online measured and/or estimated data obtained from the oil and/or gas production system. The said data preferably includes at least oil flow rate, gas flow rate, water flow rate, liquid flow rate, gas-oil ratio, water-oil ratio, pressure, temperature, or fluid composition, or any combination thereof.

IPC 8 full level

**E21B 43/00** (2006.01); **E21B 49/00** (2006.01)

CPC (source: EP US)

**E21B 43/00** (2013.01 - EP US); **E21B 49/00** (2013.01 - EP US); **G06Q 10/04** (2013.01 - EP US); **G06Q 50/06** (2013.01 - EP US)

Citation (search report)

- [I] US 6978210 B1 20051220 - SUTER JAMES R [US], et al
- [I] VASSILEIOS D. KOSMIDIS ET AL: "Optimization of Well Oil Rate Allocations in Petroleum Fields", INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol. 43, no. 14, 1 July 2004 (2004-07-01), pages 3513 - 3527, XP055144484, ISSN: 0888-5885, DOI: 10.1021/ie034171z
- See references of WO 2008029232A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2008029232 A2 20080313**; **WO 2008029232 A3 20080522**; EA 016148 B1 20120228; EA 200970227 A1 20090828; EP 2059653 A2 20090520; EP 2059653 A4 20141112; NO 20063837 L 20080303; NO 325315 B1 20080325; US 2010070182 A1 20100318

DOCDB simple family (application)

**IB 2007002460 W 20070828**; EA 200970227 A 20070828; EP 07804835 A 20070828; NO 20063837 A 20060829; US 43955307 A 20070828