

Title (en)

Managing method for a hydrocarbon production facility

Title (de)

Regelverfahren für eine Erdöl/Erdgas Produktionseinrichtung

Title (fr)

Méthode de conduite d'une installation de production d'hydrocarbures

Publication

EP 0945589 B1 20051012 (FR)

Application

EP 99400689 A 19990322

Priority

FR 9803613 A 19980324

Abstract (en)

[origin: EP0945589A1] The installation has a collection reservoir and a downstream hydrocarbon treatment unit, with detectors measuring physical properties representing their operation. Each well (1) is controlled using parameters and data for that well. The control parameters are automatically modified as a function of at least one of the physical properties measured and data covering operation of all the wells. At least one well is activated by gas injection and the installation includes a reservoir of gas under pressure to activate this well, with a detector of a physical property representing its operation. The physical property is compared to a very high preset threshold, and if the value is greater than the threshold value, at least one control parameter is modified for at least one individual gas-activated well to increase the gas consumption and reduce the pressure to a value below the threshold. The physical property measured is the reservoir pressure. The gas consumption is increased by starting up a gas-activated well which is stopped, or increasing the gas flow into at least one gas-activated well in operation. The well to be increased is chosen according to a priority rating and is the one with the highest priority given the operation of each well. Alternatively, the value of the physical property is reduced by reducing hydrocarbon production by stopping or reducing operation of a well, choosing the well according to a priority rating. If the physical property is less than the threshold, hydrocarbon flow can be increased by starting a well or increasing flow from a well in operation according to a priority rating.

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CPC (source: EP US)

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Cited by

GB2376704A; GB2376704B; US6937923B1; US7278481B2; WO0236936A1

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EP 0945589 A1 19990929; **EP 0945589 B1 20051012**; BR 9902343 A 20000111; CA 2264251 A1 19990924; CA 2264251 C 20060530; FR 2776702 A1 19991001; FR 2776702 B1 20000505; JP 4172733 B2 20081029; JP H11311084 A 19991109; NO 328099 B1 20091207; NO 991399 D0 19990323; NO 991399 L 19990927; OA 11108 A 20030404; RU 2209942 C2 20030810; US 6158508 A 20001212

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