

Title (en)

METHOD OF DETERMINING THE CHARACTERISTICS OF AN UNDERGROUND FORMATION PRODUCING FLUIDS

Publication

**EP 0125164 B1 19861230 (FR)**

Application

**EP 84400781 A 19840419**

Priority

FR 8307075 A 19830422

Abstract (en)

[origin: US4597290A] Disclosed is a method for determining the physical characteristics of a system made up of a well and an underground formation containing a fluid and communicating with the well. A change in the rate of flow of the fluid is produced and a measurement is made of a parameter characteristic of the pressure P of the fluid at successive time intervals DELTA t. One then compares on the one hand, the theoretical evolution of the logarithm of the derivative P'D of the dimensionless pressure as a function of the logarithm of tD/CD, the derivative P'D being with respect to tD/CD, tD representing the dimensionless time and CD the wellbore storage (compression or decompression) effect, with on the other hand, the experimental evolution of the logarithm of the derivative DELTA P' of the pressure as a function of the logarithm of the corresponding time intervals DELTA t, the derivative DELTA P' being with respect to time t. One then determines, from the comparison of said theoretical and experimental evolutions, the product kh of the permeability k by the thickness of said formation h, and the coefficient C.

IPC 1-7

**E21B 49/00; E21B 49/08; E21B 47/10; E21B 47/06**

IPC 8 full level

**E21B 49/00** (2006.01)

CPC (source: EP US)

**E21B 49/008** (2013.01 - EP US)

Cited by

GB2161943A; GB2167471A; FR2573473A1; US7178392B2; US6832515B2; US7024930B2; US7036579B2; US7117734B2; US7210344B2; US7263880B2

Designated contracting state (EPC)

DE GB IT NL

DOCDB simple family (publication)

**EP 0125164 A1 19841114; EP 0125164 B1 19861230; CA 1209699 A 19860812; DE 3461844 D1 19870205; FR 2544790 A1 19841026; FR 2544790 B1 19850823; NO 841473 L 19841023; US 4597290 A 19860701**

DOCDB simple family (application)

**EP 84400781 A 19840419; CA 451272 A 19840404; DE 3461844 T 19840419; FR 8307075 A 19830422; NO 841473 A 19840412; US 60183884 A 19840419**