

Title (en)

Method, system and tool for reservoir evaluation and well testing during drilling operations

Title (de)

Verfahren und System und Werkzeug zur Reservoirbeurteilung und Bohrlochprüfung während Bohrungen

Title (fr)

Procédé, système et outil pour évaluation de réservoir et test réussi au cours d'opérations de forage

Publication

**EP 1936112 A2 20080625 (EN)**

Application

**EP 08004186 A 20010919**

Priority

- EP 01971214 A 20010919
- US 84248801 A 20010425

Abstract (en)

In one form of the invention, a formation evaluation is made using a direct measurement of the formation's ability to flow fluids. The flow potential of a reservoir during underbalanced well construction is determined as the well is being constructed. The trajectory and path of the wellbore through the reservoir are modified to intersect formation having more desirable permeability and productivity to decrease the time to market of the hydrocarbon reserves within a reservoir without the time delay inherent when conventional formation evaluation techniques are applied. A downhole flow measurement instrument (27) is used to obtain actual flow ratios. The instrument is integrated into a near-bit stabilizer (12) and can be used for early kick and benign "breathing" fractures detection in the open hole wellbore.

IPC 8 full level

**E21B 21/00** (2006.01); **E21B 21/08** (2006.01); **E21B 47/10** (2012.01); **E21B 49/08** (2006.01)

CPC (source: EP US)

**E21B 21/085** (2020.05 - EP); **E21B 47/10** (2013.01 - EP US); **E21B 47/107** (2020.05 - EP); **E21B 49/08** (2013.01 - EP);  
**E21B 49/087** (2013.01 - EP US)

Citation (applicant)

WO 9949172 A1 19990930 - HYDRIL CO [US]

Cited by

EP2587227A1; CN103906998A; AU2012331230B2; RU2607826C2; US9279298B2; US9915143B2; US8783381B2; US9759064B2;  
US9567843B2; US10030492B2; WO2013009305A1; WO2013064494A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 02088522 A1 20021107**; AT E425344 T1 20090315; AT E452280 T1 20100115; CA 2448404 A1 20021107; CA 2547584 A1 20021107;  
CA 2547584 C 20081118; DE 60137974 D1 20090423; DE 60140827 D1 20100128; EP 1397579 A1 20040317; EP 1397579 A4 20050720;  
EP 1397579 B1 20090311; EP 1936112 A2 20080625; EP 1936112 A3 20080723; EP 1936112 B1 20091216

DOCDB simple family (application)

**US 0129325 W 20010919**; AT 01971214 T 20010919; AT 08004186 T 20010919; CA 2448404 A 20010919; CA 2547584 A 20010919;  
DE 60137974 T 20010919; DE 60140827 T 20010919; EP 01971214 A 20010919; EP 08004186 A 20010919