Title (en)

FORMATION TESTING IN MANAGED PRESSURE DRILLING

Title (de)

FORMATIONSTESTS IN EINER VERWALTETEN DRUCKBOHRUNG

Title (fr)

ESSAI DES COUCHES LORS D'UN FORAGE À PRESSION GÉRÉE

Publication

EP 2732130 A4 20150930 (EN)

Application

EP 11869316 A 20110712

Priority

US 2011043750 W 20110712

Abstract (en)

[origin: WO2013009305A1] A method of testing an earth formation can include incrementally opening a choke while drilling into the formation is ceased, thereby reducing pressure in a wellbore, and detecting an influx into the wellbore due to the reducing pressure in the wellbore. Another method of testing an earth formation can include drilling into the formation, with an annulus between a drill string and a wellbore being pressure isolated from atmosphere, then incrementally opening a choke while drilling is ceased, thereby reducing pressure in the wellbore, detecting an influx into the wellbore due to the reducing pressure in the wellbore, and determining approximate formation pore pressure as pressure in the wellbore when the influx is detected. Drilling fluid may or may not flow through the drill string when the influx is detected. A downhole pressure sensor can be used to verify pressure in the wellbore.

IPC 8 full level

E21B 47/06 (2012.01); **E21B 21/08** (2006.01); **E21B 47/00** (2012.01); **E21B 47/08** (2012.01); **G01V 3/18** (2006.01); **G01V 9/00** (2006.01)

CPC (source: EP US)

E21B 21/08 (2013.01 - EP US); **E21B 21/085** (2020.05 - EP); **E21B 47/06** (2013.01 - EP); **E21B 49/087** (2013.01 - EP US); E21B 2200/02 (2020.05 - EP)

Citation (search report)

- [X] GB 2156403 A 19851009 - NL INDUSTRIES INC
- [A] US 2006207795 A1 20060921 - KINDER JOE [US], et al
- [A] US 2008154510 A1 20080626 - SCOTT JESSIE C [US]
- See also references of WO 2013009305A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013009305 A1 20130117; BR 112014000553 A2 20170214; BR 112014000553 B1 20200811; BR 112014000553 B8 20210217; CA 2841125 A1 20130117; CA 2841125 C 20160607; CN 103688020 A 20140326; EP 2732130 A1 20140521; EP 2732130 A4 20150930; EP 2732130 B1 20180502; MX 2014000417 A 20140227; MX 353095 B 20171219; RU 2014104013 A 20150820; RU 2585780 C2 20160610

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US 2011043750 W 20110712; BR 112014000553 A 20110712; CA 2841125 A 20110712; CN 201180072236 A 20110712; EP 11869316 A 20110712; MX 2014000417 A 20110712; RU 2014104013 A 20110712