

Title (en)
SYSTEM AND METHOD FOR ASSESSING THE PRESENCE OF HYDROCARBONS IN A SUBTERRANEAN RESERVOIR BASED ON SEISMIC INVERSIONS

Title (de)
SYSTEM UND VERFAHREN ZUR BEURTEILUNG DES VORHANDENSEINS VON KOHLENWASSERSTOFFEN IN EINEM UNTERIRDISCHEN RESERVOIR AUF DER GRUNDLAGE SEISMISCHER INVERSIONEN

Title (fr)
SYSTÈME ET PROCÉDÉ D'ÉVALUATION DE LA PRÉSENCE D'HYDROCARBURES DANS UN RÉSERVOIR SOUTERRAIN D'APRÈS DES INVERSIONS SISMQUES

Publication
EP 3769126 A1 20210127 (EN)

Application
EP 19721762 A 20190322

Priority
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Abstract (en)
[origin: WO2019180669A1] A computer-implemented method is described for a manner of geologic analysis using time- lapse seismic data. The method includes steps of receiving a first seismic attribute volume inverted from a seismic dataset recorded at a first time, a second digital seismic attribute volume inverted from a seismic dataset recorded at a second time, and a range of geological and geophysical parameters possible in the subsurface volume of interest; identifying a layer and area of interest; computing an attribute difference volume from the seismic attribute volumes; performing probabilistic attribute analysis of at least two of the first digital seismic attribute volume, the second digital seismic attribute volume, and the attribute difference volume using the range of geological and geophysical parameters; estimating time-lapse reservoir properties based on the probabilistic attribute analysis; and outputting visual information depicting the time-lapse reservoir properties via a user interface.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
See references of WO 2019180669A1

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