

Title (en)
CONCENTRATION PREDICTION IN PRODUCED WATER

Title (de)
KONZENTRATIONSVORHERSAGE IN PRODUZIERTEM WASSER

Title (fr)
PRÉDICTION DE CONCENTRATION DANS DE L'EAU PRODUITE

Publication
EP 4251853 A1 20231004 (EN)

Application
EP 20853517 A 20201229

Priority
IB 2020001124 W 20201229

Abstract (en)
[origin: WO2022144565A1] The invention notably relates to a computer-implemented method of machine- learning a predictive model configured for predicting a concentration of an element in produced water of a given well of hydrocarbon production in a hydrocarbon reservoir having wells of hydrocarbon production. The method comprises providing a dataset comprising values of one or more geoscience well-wise variables. Each value corresponds to a respective well of hydrocarbon production in the hydrocarbon reservoir other than the given well. Each value that corresponds to a respective well is associated to a respective ground truth value representing a concentration of the element in the respective well. The method further comprises learning the predictive model based on the dataset. This forms an improved solution for predicting a concentration of an element in produced water of a given well of hydrocarbon production in a hydrocarbon reservoir.

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E21B 49/0875 (2020.05 - EP US); **E21B 2200/22** (2020.05 - EP US)

Citation (search report)
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