

# (12) International Application Status Report

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**(54) Title (EN):** DOWNHOLE INTERVENTION OPERATION OPTIMIZATION

**(54) Title (FR):** OPTIMISATION DE L'OPÉRATION D'INTERVENTION DANS UN FOND DE PUIT

**(57) Abstract:**

**(EN):** Methods and systems for generating intervention programs for a downhole formation including collecting mud-logging data during a drilling operation, wherein the drilling operation forms a borehole through the formation, generating zone characterization of one or more zones along the borehole based on the collected mud-logging data, defining targeted zones of the one or more zones along the borehole, generating a treatment characterization for each targeted zone based on the collected mud-logging data, and generating an intervention treatment design based on the targeted zones and associated treatment characterizations.

**(FR):** La présente invention concerne des procédés et des systèmes pour générer des programmes d'intervention sur une formation de fond de puits comprenant la collecte de données de diagraphie du fluide de forage pendant une opération de forage. L'opération de forage forme un puits de forage à travers la formation, génère une caractérisation de zone d'une ou plusieurs zones le long du puits de forage sur la base des données de diagraphie de fluide de forage collectées, définit des zones ciblées d'une zone ou de plusieurs zones le long du puits de forage, génère une caractérisation de traitement pour chaque zone ciblée sur la base des données de diagraphie de fluide de forage collectées, et génère un modèle de traitement d'intervention sur la base des zones ciblées et des caractérisations de traitement associées.

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

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African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

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**Declarations:**

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))