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(54) Title (EN): METHOD OF CONTROLLING SALINITY OF AN INJECTION WATER DURING COMMISSIONING OF AN INJECTION WELL

(54) Title (FR): PROCÉDÉ DE CONTRÔLE DE LA SALINITÉ D'UNE EAU D'INJECTION LORS DE LA MISE EN SERVICE D'UN Puits D'INJECTION

(57) Abstract:

(EN): An integrated system comprising: a desalination plant comprising a reverse osmosis (RO) array to produce an RO permeate blending stream and a nanofiltration (NF) array to produce an NF permeate blending stream; a blending system; a control unit; an injection system for an injection well that penetrates an oil-bearing layer of a reservoir; and wherein the blending system is to blend the RO permeate blending stream and the NF permeate blending stream to produce a blended injection water stream, wherein the control unit is to dynamically alter operation of the blending system to adjust amounts of at least one of the RO permeate blending stream and the NF permeate blending stream to alter the composition of the blended injection water stream from an initial composition to a target composition.

(FR): Un système intégré comprenant : une installation de dessalement comprenant un réseau d'osmose inverse (OI) pour produire un flux de mélange de perméat d'OI, et un réseau de nanofiltration (NF) pour produire un flux de mélange de perméat NF; un système de mélange; une unité de commande; un système d'injection pour un ou plusieurs puits d'injection pénétrant dans une couche pétrolière d'un réservoir; le système de mélange étant destiné à mélanger les flux de mélange de perméat d'OI et de perméat de NF pour produire un mélange d'eau d'injection, l'unité de commande étant destinée à modifier de manière dynamique le fonctionnement du système de mélange de façon à ajuster les quantités d'au moins un des flux de mélange de perméat d'OI ou de NF afin d'altérer la composition du mélange d'eau d'injection à partir d'une composition initiale à une composition cible.

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