

Title (en)

A PROCESS AND A FORMULATION TO INHIBIT SCALE IN OIL FIELD PRODUCTION

Title (de)

VERFAHREN UND ZUSAMMENSETZUNG ZUR VERMINDERUNG VON KALKABLAGERUNGEN BEI ERDÖLPRODUKTION

Title (fr)

PROCEDE ET FORMULATION SERVANT A EMPECHER LES DEPOTS CALCAIRES DANS UNE EXPLOITATION PETROLIERE

Publication

EP 0886719 A1 19981230 (EN)

Application

EP 97950339 A 19971224

Priority

- GB 9703553 W 19971224
- GB 9700532 A 19970113

Abstract (en)

[origin: WO9830783A1] This invention is a process and a formulation for minimising the squeezing and shut-in operations needed to inhibit scale in a production well using the precipitation squeeze method by injecting into an oil-bearing rock formation a water-miscible formulation comprising: (a) a water-miscible surfactant which is in liquid form, (b) a solution of water-soluble metal salt comprising a multivalent cation and (c) a solution of a water-miscible scale-inhibiting compound comprising an anionic component capable of forming a scale-inhibiting precipitate in situ in the presence of the cations in (b) upon injection into the rock formation, wherein the surfactant is a glycol ether and the minimum ion concentration of the scale-inhibiting compound (c) is 5000 ppm based on the total weight of the formulation.

IPC 1-7

E21B 37/06; **E21B 43/22**

IPC 8 full level

C09K 8/524 (2006.01); **C09K 8/528** (2006.01); **C09K 8/54** (2006.01); **E21B 37/06** (2006.01); **E21B 43/22** (2006.01)

CPC (source: EP)

C09K 8/524 (2013.01); **C09K 8/528** (2013.01); **E21B 37/06** (2013.01)

Citation (search report)

See references of WO 9830783A1

Designated contracting state (EPC)

BE DE DK FR GB IT NL SE

DOCDB simple family (publication)

WO 9830783 A1 19980716; AR 011403 A1 20000816; AU 5333698 A 19980803; AU 718313 B2 20000413; CA 2245886 A1 19980716; CA 2245886 C 20050315; CO 5031323 A1 20010427; EA 000901 B1 20000626; EA 199800801 A1 19990429; EP 0886719 A1 19981230; EP 2287441 A2 20110223; EP 2287441 A3 20110316; GB 9700532 D0 19970305; MY 120014 A 20050830; NO 321722 B1 20060626; NO 984125 D0 19980907; NO 984125 L 19980907; RO 117977 B1 20021129; SA 98190109 B1 20060815

DOCDB simple family (application)

GB 9703553 W 19971224; AR P980100141 A 19980113; AU 5333698 A 19971224; CA 2245886 A 19971224; CO 98000798 A 19980109; EA 199800801 A 19971224; EP 10179985 A 19971224; EP 97950339 A 19971224; GB 9700532 A 19970113; MY PI9800127 A 19980112; NO 984125 A 19980907; RO 9801380 A 19971224; SA 98190109 A 19980531