A B S T R A C T (Figure 1)

WELLBORE SYSTEM WITH RETRIEVABLE VALVE BODY

A system for inserting injection fluid into a stream of hydrocarbon fluid flowing through a wellbore formed in an earth formation is provided. The system comprises a production conduit for conveying said stream of hydrocarbon fluid through the wellbore to the earth surface, said conduit being provided with at least one valve chamber which is suitable to receive a retrievable valve body therein, said valve body including a valve which is controllable via an electric circuit connected to surface control equipment so as to move the valve between an open position thereof whereby the valve provides fluid communication between said stream and a fluid injection channel extending in the wellbore, and a closed position thereof whereby the valve prevents fluid communication between said stream and said fluid injection channel. The electric circuit comprises an inductive coupler including a primary coil provided at the production conduit and a secondary coil provided at the valve body.