

ABSTRACT OF THE DISCLOSURE

CONTROLLING TRANSIENT UNDERBALANCE IN A WELLBORE

A method and apparatus for controlling a transient underbalance condition is provided. Transient underbalance can be enhanced by using a porous material, such as a porous solid, around the explosive device. The porous material contains a volume to receive wellbore fluids in response to activation of the explosive device. This causes a local drop in pressure, which enhances the transient underbalance effect. In another application, it is desired to reduce the transient underbalance effect. This is accomplished by reducing the pressure drop generated as a result of explosive detonation. In one arrangement, the shot density is reduced by using solid masses.