

BIDIRECTIONAL GRAVEL PACKING IN SUBTERRANEAN WELLS

ABSTRACT OF THE DISCLOSURE

Systems and methods for bidirectional gravel packing
5 of wells. A gravel packing method includes flowing a
gravel slurry in one direction in an annulus formed between
a wellbore and a gravel packing assembly, and flowing
another gravel slurry in an opposite direction in the
annulus. A well system includes a gravel packing assembly
10 positioned in a wellbore; one or more well screens
interconnected in the gravel packing assembly; a flow
control device, interconnected in the gravel packing
assembly, and which selectively permits and prevents flow
of a gravel slurry outward from the gravel packing assembly
15 to an exterior of the well screens; another flow control
device, interconnected in the gravel packing assembly, and
which selectively permits and prevents flow of another
gravel slurry outward from the gravel packing assembly to
the exterior of the well screens; and the well screens
20 being positioned between the flow control devices.

FIGURE 1