

ABSTRACT

HIGH-RATE INJECTION SCREEN ASSEMBLY WITH CHECKABLE PORTS

A screen assembly can be used for “gravel pack” or “frac pack” operations and can then withstand high rate injections. The disclosed screen assembly is able to withstand the flow of the packing operation by not allowing fluid passage from the annulus to inside the screen assembly. Then, the screen assembly can be opened and facilitate high rate injection for the life of the well. To achieve this, the disclosed screen assembly does not allow slurry flow to enter the screen assembly during the packing operation. Then, after the packing is completed, the screen assembly provides enough open flow area so that a high injection rate with solid content can be introduced into the annulus without eroding the screen.

Figure 2A