OVERVIEW
The SandRight® solids fallback preventer deters damaging solids from entering the
electric submersible pump (ESP) during power shutdown events. Its unique design
features preserve the ESP, especially in wells subject to dislodged formation and
frac sands. Unlike other solutions in the industry, it maintains the ability to execute
through-tubing chemical treatments while also resisting paraffin/scale buildup by
using superior materials. Inspired by the experience and observations obtained
while executing the LIFTRightSM service and drawing from cross-product line
experience in fracking and fluid-proppant transport, the tool was specially designed
to be compact and easily integrated into our ESP production system.

HOW IT WORKS
When an ESP is shutdown, solids hovering in the production tubing above the
ESP are a major issue, especially in unconventional applications. These solids
fall back to the ESP pump(s) and become lodged in the pumps’ stages. Restart
attempts can overstress motors, accelerate pump wear, overheat cable and/or
result in catastrophic failure. The SandRight tool not only protects ESP pumps from
permanent damage due to solids fallback, but also significantly increases an ESP’s
runtime in unconventional applications.

ADVANTAGES
The SandRight tool is compact, is easily deployed, and out-performs all other
solutions on the market. Its unique sand fallback prevention capabilities address all
known issues with most fallback preventers – such as erosion/corrosion, paraffin
buildup, incompatibility with desanders, and jamming issues – while retaining the
ability to perform through-tubing chemical treatments. Specifically, it helps:
» Achieve economical ESP run-times in applications with sand issues
» Decrease total number of hard start events
» Decrease severity of hard start conditions (high current, rocking starts, etc.)
» Extend ESP runtime beyond what is capable with using other sand management
tools/techniques
» Eliminate premature ESP failures when integrated into a total solution
   (including desander, tubing and casing transducers, and Summit ESP® Well
   Surveillance and Monitoring Service)
» Integrate faster and easier into the ESP system
FEATURES
» Plate-flow design
» Directional and graduated passageways
» Hardened and corrosion-resistant metallurgy
» Inert coatings on all wetted surfaces
» Continuous fluid communication passageways

BENEFITS
» Stops sand from flowing in reverse direction
» Creates a ‘leak-off’ effect for wide range of sand concentration and flowrates
» Provides higher abrasion resistance for long wear
» Resists paraffin and scale build-up
» Supports gas management and through-tubing treatments

BASIC OPERATION:
1. Shutdown occurs and sand falls back towards the ESP.
2. Sand bridging forms in the SandRight tool, thereby restricting passage of sand.
3. Pumps are successfully restarted.
4. Sand column above the SandRight tool is re-fluidized and pushed/flowed toward the surface.

For more information, contact your local Halliburton representative, visit us on the web at www.halliburton.com, or email ArtificialLift@halliburton.com