Sandface Instrumentation Gravel Pack System

The Sandface Instrumentation (SFI) Gravel Pack system provides real-time production monitoring across the sandface via fiber optics. In most sandface completions, the lower completion contains the screens and the completion is performed in two stages. The service tool string is run first to perform gravel pack operations and the second stage mates the upper completion string to the lower completion. To deploy fiber optic in a two-stage completion, a wet-mate connector system is required.

This complete downhole tool solution can be used in gravel or frac pack applications as well as any two-trip configuration, such as standalone screen type completions.

The SFI Gravel Pack system consists of:

- Anchor/scoop head assembly that houses the wet-mate connectors and anchors the tubing assembly in place - also proves orientation and cushions wet-mate contact
- 180-degree swivel for the orientation of the anchor into the scoop head without rotation of upper tubing
- Sandface packer: 9 5/8-in. 47-53.5 lbs x 5-in. bore hydraulic-set packer with cable bypass and high frac rating
- MCS closing sleeve with cable groove and cover
- PetroGuard® Line and Cable system (LCS) as sand screens with protective line and cable channel featuring quick lock and release clamp
- An optional Long Space-Out Travel Joint (LSOTJ) with fiber optic to ease the space-out of uphole tubing assembly into the sandface assembly

Features

- Gravel pack/frac pack
- 10,000 psi frac rating
- ¼-in. fiber-optic line
- Three pin wet-mate connector
- Distributed temperature sensing (DTS)/array temperature sensing (ATS) readings
- Built-in debris protection
- Fully autonomous mechanical operation (run-in-hole)
- Fully resettable system allows fiber to be connected and reconnected many times without tripping to surface

Applications

- Solution for key challenges in fiber-optic architecture for DTS and discrete sensor applications in sand control type completions
- Not limited to fiber-optic connectors and can be used for electrical and hydraulic connections
For more information on Sandface Instrumentation Gravel Pack System, please contact your local Halliburton representative or email us at sandcontrol@halliburton.com