

Soft-Release Ball Seat

MITIGATE FORMATION SURGE AND ENABLE INNER STRING WASHING AND ACIDIZING

OVERVIEW

In sensitive or weak formations, surge generated from downhole pressure shear-out events can induce losses or formation damage.

Formations or well designs might also require circulation of brine, breaker or acid via an inner string post hanger setting operations or hydraulic activation of open hole packers.

The soft-release ball seat system allows for multiple, full expansion pressure cycles to be applied to an expandable liner hanger, without time restriction, followed by the regain of full circulation capability without a pressure surge event.

APPLICATIONS

Expandable liner hangers deploying

- » Screens
- » Perforated/Slotted Liners
- » Hydraulically activated open hole packers

FEATURES

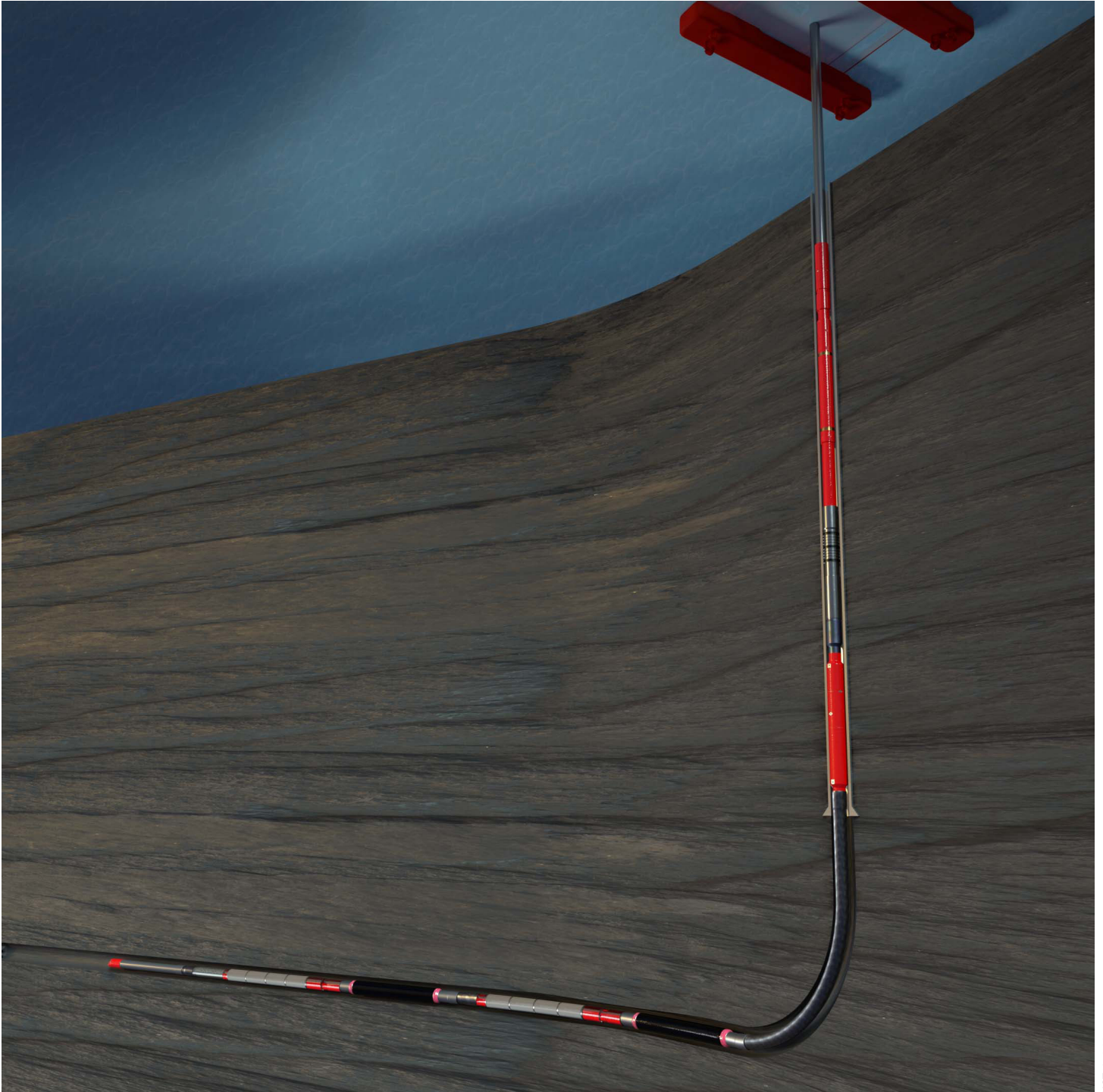
- » Compatible with the VersaFlex® running tool portfolio
- » Simple, mechanical actuation of ball seat bypass
- » Ball seat bypass mechanism not time dependent
- » Full flow and inner string pressure integrity after ball seat bypass
- » Allows for Liner Top Packer Test prior to releasing with selected running tool models

BENEFITS

- » Verification of Liner Top Packer anchor & seal by over pull -all tool models and then pressure test - with selected running tool models
- » Mitigates mud losses associated with surge events in weak formations, while helping protect sensitive formations from surge-related damage
- » Provides capability to circulate via an inner string after hanger setting and running tool release
- » Includes a simple operating mechanism - no complex micro-hydraulics
- » Enables setting of hydraulically actuated open hole packers via inner string



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