**Type H Selective-Release (SR) Plug Set**

Selective-release (SR) plug systems allow you to run a two-stage cement job in a liner and/or in an offshore application where the casing is hung off a subsea hanger system.

**Features**

- Used on Type H ES cementers and Type H ESIPC tools
- The plug set allows two-stage cementing of liners or casing strings suspended from a casing hanger.
- It can be used to cement a slotted liner suspended below a Type H ESIPC or below an external casing packer below a Type H ES cementer.
- The plug set is compatible with both hydraulic-set and mechanical-set hanger systems.
- The setting ball for hydraulic-set liner hangers must be small enough to pass through the plug set and first-stage shutoff baffle adapter.
- The selective-release feature helps prevent the closing plug from releasing prematurely before the first-stage latchdown shutoff plug has been released (7 in. and larger).

- A latchdown baffle adapter collar must be ordered separately for use with this plug set.
- Type H SR plug sets with a built-in liner setting ball option are available for select casing sizes.
- This plug set is PDC drillable.
Type S Liner Plug Set

A Type S liner plug set can allow you to operate a cementer off a floater, or on a conventional liner job on land when a first-stage cement job is not required. The cementer is opened by dropping a ball to the opening seat insert that is installed in the opening seat. The Type S multiple-stage closing plug is released by pumping down a drillpipe releasing plug. A Type H cementer will have to be opened by dropping the ball unless the casing is run into the hole blanked off.

Features
- Useful for setting slotted liners and other applications
- Simple modifications to the stage tool are easily performed.
- Used on land and offshore well applications
- Used in applications when only cementing above the stage tool

Challenge (Latin America):
Obtain an economical seal of multi-lateral junctions in high-viscosity heavy oil field.

Solution:
- Type H SR Plug Sets operated Type H ES Stage Cementers to fully cement the lateral with the mother wellbore junction
- Use of an external casing packer to keep cement above the slotted liner in the horizontal section

Result:
Successful off-bottom cementing process used to provide competent level 5 multi-lateral junction in more than 200 wells

Challenge (Asia Pacific):
Isolate the oil sand producing interval from a water-producing formation.

Solution:
- Type H SR Plug Sets enabled an ESIPC (external sleeve inflatable packer collar) to be installed in conjunction with a VersaFlex® Expandable Liner Hanger immediately below the water zone

Result:
Successful off-bottom cementing application while achieving superior liner top seal integrity.

For more information on the Type H and Type S Plug Set Systems, please call your local Halliburton representative or e-mail us at cementing@halliburton.com.