

## RSLH 650

### Retrievable mechanically set scab liner hanger



Rated to 343 degC  
[650 degF]

#### APPLICATIONS

- Remedial operations
- Workover operations
- Thermal heavy oil producers where formation shifts have caused damage to the casing

#### BENEFITS

- Remediates wellbores after catastrophic damage occurs
- Retains ability to use large-diameter completion tubulars
- Reduces operating costs by minimizing the length of casing needed to repair damage
- Simplifies running and retrieval

#### FEATURES

- Fullbore internal diameter
- Engineered, simple, field-proven design
- Top and bottom anchoring slips
- Retrieval with standard tools and spears
- NACE MR0175 compliance for environments containing H<sub>2</sub>S

The RSLH 650 retrievable, mechanically set scab liner hanger is typically deployed after formation shifting in thermal wells to suspend heavy-wall casing joints across damaged zones and prevent complete collapse of the wellbore.

The large internal diameter of this hanger allows passage of standard size tubulars, and retrieval is accomplished through use of standard fishing equipment and procedures.

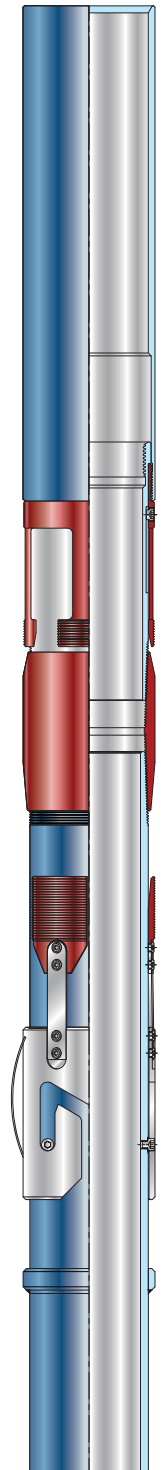
Designed with top hold-down slips, the RSLH 650 liner hanger is run and set with a mechanical setting tool. The tailpipe assembly (heavy-wall casing) is made up below the hanger, and the running tool is used with a compression jar above it in the workstring.

Upon reaching the setting depth, the workstring is lifted enough to stroke the jay pin on the liner hanger to the top of the jay slot, and ¼-turn left-hand torque is held while lowering the string to set the bottom slips. After the lower slips are set and the hanger takes weight, right-hand rotation is applied to the string to release the running tool. The string is then lifted so that the setting dogs engage the setting sleeve, and the upper slips are set by jarring the string downward.

If required, the RSLH 650 liner hanger can be retrieved using standard retrieval equipment.

#### Setting tool design simplifies release and cleaning

The setting tool features a floating running nut and bearing for ease of release and can be flushed for cleaning. It is also adaptable to liner top debris management systems.



RSLH 650 liner hanger.

#### RSLH 650 Liner Hanger Specifications

Size, in [mm]	Weight Range, lbm/ft [kg/m]	Packer OD, in [mm]
5.500 × 7.000 [139.7 × 177.8]	23.0–26.0 [34.2–38.7]	6.125 [155.6]
7.000 × 9.625 [177.8 × 244.5]	36.0–47.0 [53.6–69.9]	8.375 [212.7]
8.625 × 11.750 [219.1 × 298.5]	38.0–60.0 [56.6–89.3]	10.375 [263.5]

#### RSLH 650 Liner Hanger Setting Tool Specifications

Size, in [mm]	Max. OD, in [mm]	End Connections, in [mm]
5.000 [127.0]	4.980 [126.5]	2.875 [73.0] EUE
5.500 [139.7]	5.480 [139.2]	2.875 [73.0] EUE
6.625 [168.3]	6.813 [173.1]	2.875 [73.0] EUE
7.000 [177.8]	7.250 [184.2]	2.875 [73.0] EUE