Long Space-Out Travel Joint (LSOTJ)
Simplified Tubing Space-out in Deepwater Completions

Spacing out production tubing and landing the tubing hanger on subsea completions is very challenging. Variables such as well depth, water depth, deviation and rig heave add to the complexity of the space out operation. Rig rates are extremely high in deepwater environment, so it is imperative that the first attempt of landing the production tubing string is successful. The need for the most efficient means of spacing out in these adverse conditions is essential to job success.

To address these subsea space-out issues, Halliburton has developed the Long Space-Out Travel Joint (LSOTJ). The travel joint is designed to telescope downward in response to a timed application of a compressive load created when the production seal assembly is landed into the sealbore packer. The LSOTJ collapses as the production tubing is lowered, allowing the subsea tubing hanger to land in the wellhead.

There are two versions of the LSOTJ design. The Continuous Sealing (CS-LSOTJ) version is for dual-zone selective completions and intelligent well applications. The CS-LSOTJ maintains flow and pressure separation of the zones once the tubing is landed. The second version is the Non-Continuous Sealing (NCS-LSOTJ) version for single-zone and multi-zone commingled completions. The NCS-LSOTJ has initial pressure integrity for pressure testing, but provides communication once the travel joint strokes.

**Features**
- Simplifies space-out calculations required to install production tubing in subsea completions
- Eliminates concern over shearable type travel joints, while pushing through BOPs or liner tops
- Continuous and non-continuous sealing designs available
- Collapses after a timed compressive load
- Positioned between production packer and the uppermost gravel-pack packer
- Economical and simple travel length adjustment
- Limitless travel length capability
- Can be locked and unlocked multiple times
- Hydraulic “soft” release, without rotation or shearing pins
- Pressure integrity in run position allows downhole testing of equipment
- High load carrying capability
- Includes a safety contingency release
- Compact modular design

### Non-Continuous Sealing (NCS-LSOTJ) – sizes

<table>
<thead>
<tr>
<th>Size</th>
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<tbody>
<tr>
<td>7 5/8” X 5 1/2”</td>
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<tr>
<td>6 5/8” X 4 1/2” *</td>
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<tr>
<td>5 1/2” X 3 1/2”</td>
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<td>5.0” X 3 1/2”</td>
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<td>4 1/2” X 2 7/8”</td>
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*CS-LSOTJ available*
Long Space-Out Travel Joint (LSOTJ)

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