



GAME CHANGER FOR PACKERS AND BRIDGE PLUGS:

LARGE EXPANSION MEETS HIGH PRESSURE WITH NORTHSTAR'S PATENTED STELLAR™ PACKER ELEMENT SUPPORT TECHNOLOGY!

Northstar Design Engineers are currently putting the Stellar™ System through its paces. Repeated tests at 15,000 psi and 350°F in 38 ppf casing were successful with no damage to the casing or Stellar™ components.

With our minimum objectives achieved, we are cranking up the heat to 400°F, and the pressure to 20,000 psi and the expansion to 6.366" (7" 23ppf equivalent), validating the most versatile temporary well isolation technology available. One tool can service 6-5/8" 20-32 ppf, 7" 20-46.4 ppf and 7-5/8" 45.3-55.3 ppf in the most hostile HPHT conditions.

Stellar™ is incorporated into both our ODIN™ HPHT Retrievable Bridge Plug and HPHT Packer designs, allowing safe passage through wellbore restrictions (ball valves, damaged casing, perforations, etc.) while maintaining the HPHT rating.

The 7" tool's 4-1/2" little brother is no less versatile, servicing 4" 9.5 ppf, 4-1/2" 9.5 – 21.6 ppf, 5" 13-32 ppf and 5-1/2" 28.4-43.1 ppf with the same 15,000 psi, 350°F minimum rating.

Contact Northstar if you have a Stellar™ challenge: <http://www.northstardst.com/contact>