

Job History
Casing Leak Repair
November 2001
Seal Longevity

- Problem:** North Sea well with a 10 ¾” casing leak.
- Diagnostics:** With 10 ¾” casing pressure at 1740 psi, the 13 3/8” casing pressure build up rate was 22 psi/minute. Dye was injected into the 10 ¾” casing valve while taking returns from the 13 3/8” casing valve to determine that the leak site was the thread connection on the bottom of the 10 ¾” casing hanger.
- Solution:** Nitrogen was injected into the 10 ¾” casing valve, through the leak site, and out the 13 3/8” casing valve. Seal-Tite sealant was then atomized into the nitrogen flow stream and carried through the leak site to cure the leak.
- Results:** Leak cured and well back on production at a small fraction of the cost of a workover.
- Update:** In March 2013 the 10 ¾” casing was tested to 2900 psi with no leakage past the Seal-Tite seal created back in November 2001. **The seal is still holding after 12 years.**