



CASE HISTORY

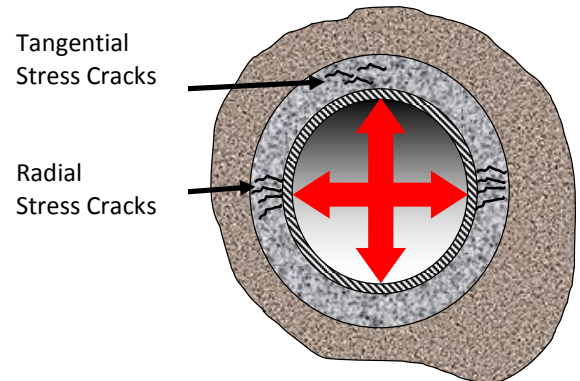
Drilling and Completions

FREECAP® Swellable Packer

REDUCED CEMENT STRESS CRACKING

Casing Failure Requires Repair

Location: South Texas



CHALLENGE: A Class 1 disposal well failed to pass the bi-annual mechanical integrity test due to severe corrosion and partial collapse in the upper 3,000 ft of the 7 in. OD production casing.

SOLUTION: A 4-¼ in. OD inflatable bridge plug (IBP) was run below the corroded section to prevent losses of trash and fluids into the injection zone and improve well control during the workover. The top 3,400 ft of the 7 in. casing was cut and retrieved. A replacement 7 in. casing string was run with a pack-off overshoot to latch onto and seal the 7 in. casing stub left sticking up. A stage cement job was performed above the overshoot with full cement returns to surface. The stage tool plugs were drilled out. Pressure testing of the new casing and overshoot confirmed integrity. The IBP was retrieved and the well returned to service.

RESULTS AND BENEFIT: Repair costs were less than P&A and new well drilling costs. In addition, permitting a workover requires considerably less paperwork than permitting a new Class 1 disposal well and thus the well was returned to service approximately one year sooner than if a newly drilled well had been required. Without the well in service, all disposal fluids required trucking to a commercial disposal site at considerable cost.