Avoid “0 = 0”

- Geothermal reservoir problem; VPL, non-condensible gas: use EOS4; modify gas (molecular weight, solubility)
- Bottom boundary \((P, T, Pair) = (30.\text{e}5, 250., 1.\text{e}3)\)
- Water injection

```
GENER----1----*----2----*----3----*----4----*----5----*----6----*----7----*----8
A27 1inj 1                         COM1     5.0      1.e5
A27 1inj 2                         COM2     1.e-15
```
Injection at Specified Temperature

Task: inject 25 °C water into grid block *A27 1* in domain ‘LAY 1’.

Solution: assign *A27 1* to a domain ‘LAY1i’ with properties identical to ‘LAY 1’, except give it “infinite” specific heat by assigning “infinite” rock grain density.

Initialize ‘LAY1i’ with desired injection temperature. Inject with arbitrary enthalpy.