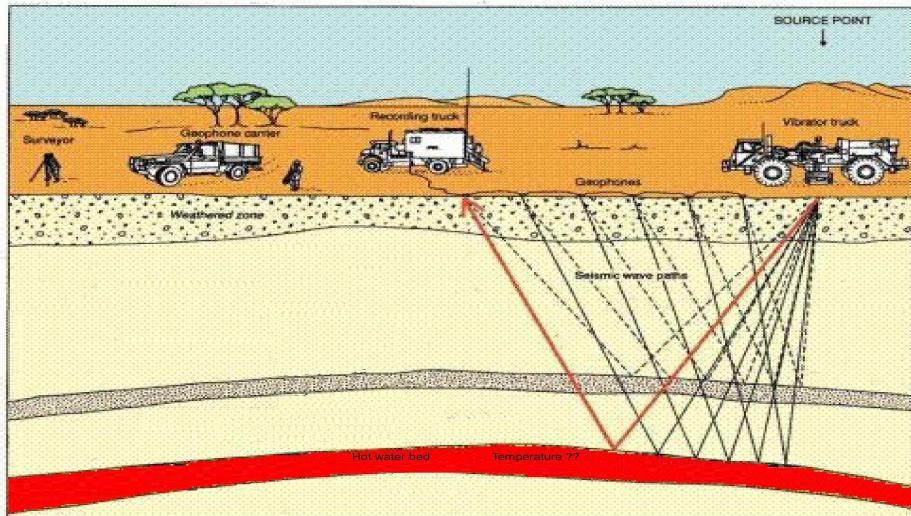


Prediction of rock thermal conductivity from mineral composition, elastic wave velocities and microstructure

Geothermal “Prospection“ ?



- Thermal conductivity λ is crucial
- Predict λ from wave velocities ?

Wave velocities
 V_P^{dry} & V_P^{sat}

Thermal conductivity
 λ_{eff}^{dry} & λ_{eff}^{sat}

Rock microstructure
 ϕ , ρ & ε