Pipe flow – fast – diffusion to surrounding rock

Compare porous model to pipe flow model

Analytical calculations of heat flow in mines

Permeability of goaf?

Test model against real flow data + temperature (need to know pressure gradient, how much heat exchange between the walls considering turbulent flow within the mine)

Where do the heat go?

How connected in the mine to aquifer (change in head)

Faults through mines

Decarbonizing heating and cooling – dont say anything