

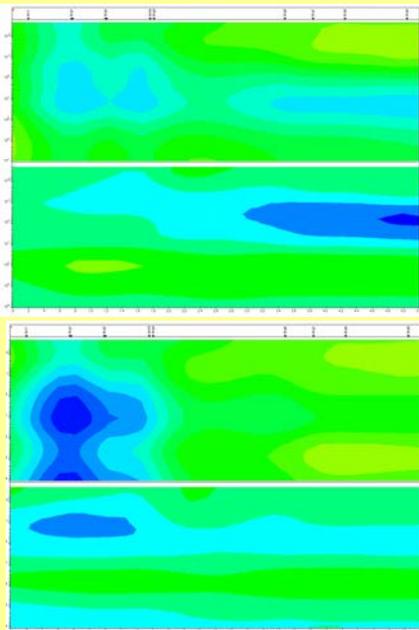


# Electrical resistivity 3D modelling of the crust structure at the Travale high enthalpy geothermal field

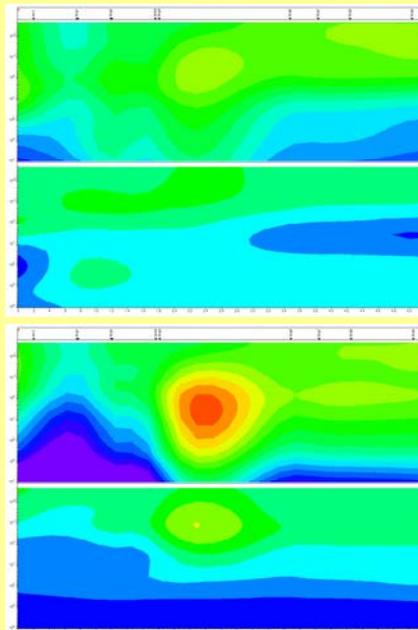
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1<sup>st</sup> aim → to obtain a reasonable fit of the measured MT data by 3D electrical resistivity modelling

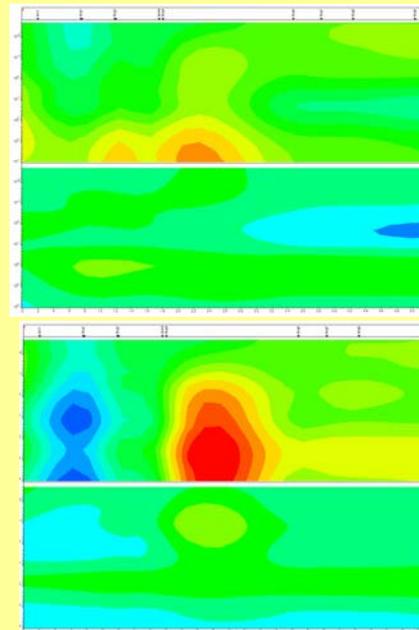
Methodology → carry out 3D models, calculate forward responses, compare with measured data



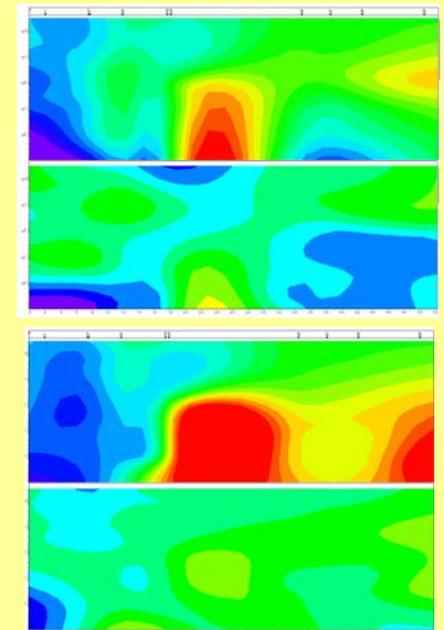
Response of model including currently exploited productive fractures



Response of model including extended reservoirs and resistive lower crust-mantle



Response of model including extended reservoirs and conductive lower crust-mantle

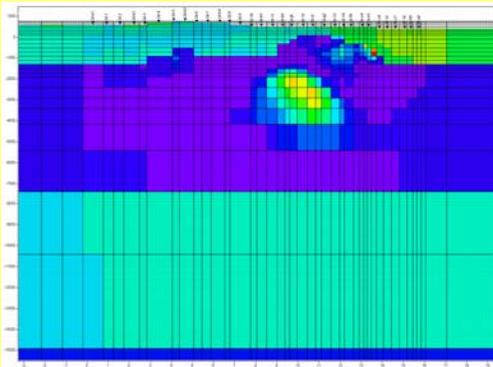
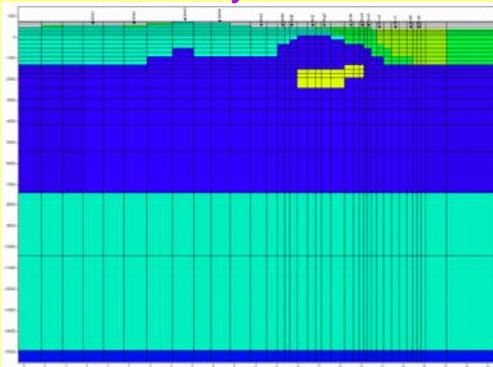


measured MT data

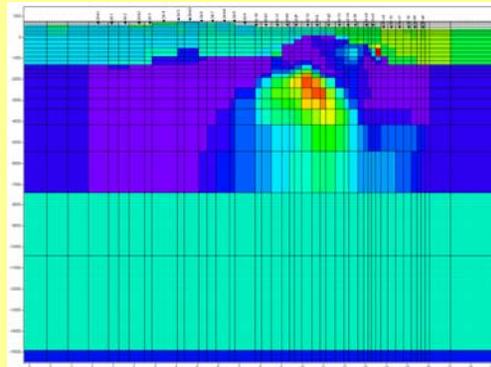
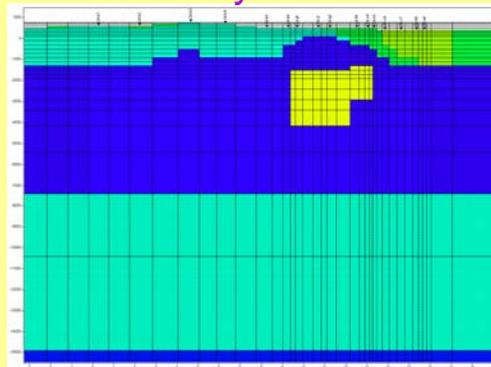
2<sup>nd</sup> aim → determine whether MT is able to recognize different reservoir geometries and dimensions and the optimum spacing between stations to achieve so

Methodology → carry out 2D models, calculate forward responses, use them in 2D inversions of *a priori* models repeat the procedure reducing stations spacing

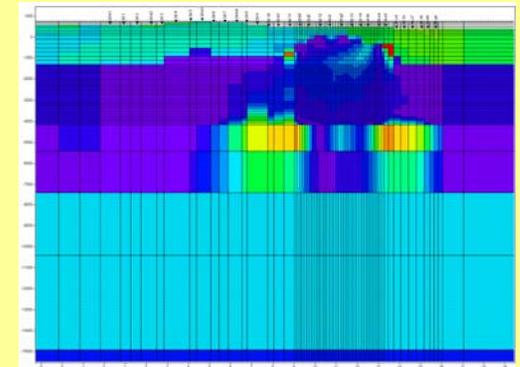
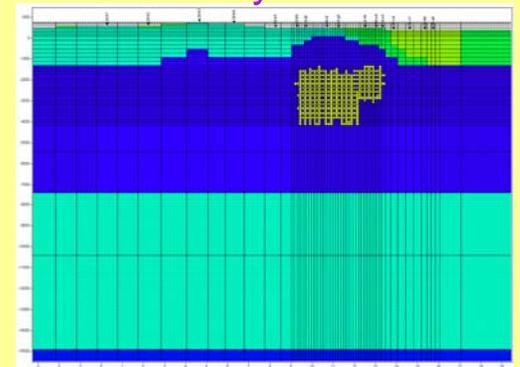
small pore-controlled-resistivity reservoir



large pore-controlled-resistivity reservoir



large fracture-controlled-resistivity reservoir



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