

3D-Reflection seismic survey for geological exploration in the Kirchstockach geothermal field

Client:

Süddeutsche Geothermieprojekte GmbH & Co. KG
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Task:

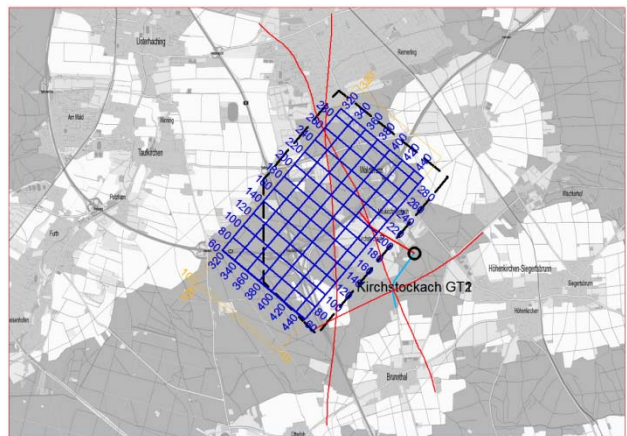
Geological structures such as faults and stratigraphic trends were to be explored down to depths of 4500 m in the Kirchstockach area by means of a 3D seismic survey. Main objective was to optimize the well path design.

Service:

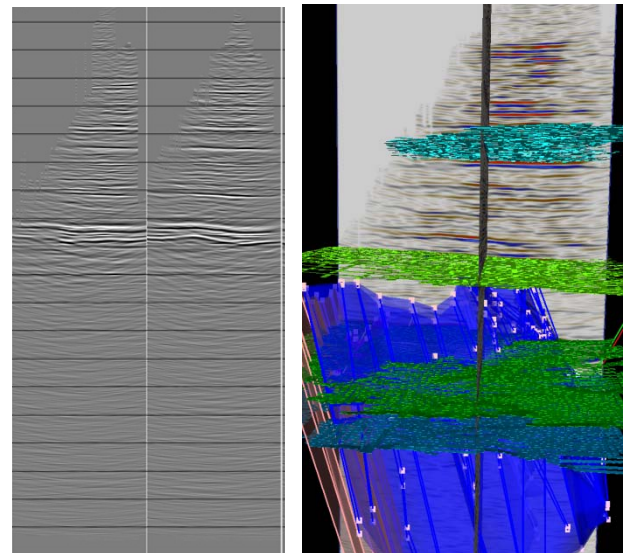
DMT conducted the seismic survey fieldwork in July 2009. An area of approximately 30 km² was seismically surveyed. This vibro-seismic survey yielded a high-quality imaging of the subsurface.

Interpretation of the seismic data as well as advanced 3D geological modelling delivered a reliable comprehension of the reservoir's structural features down to 4500 m below ground level.

Using the outcome of this work, client's well design for the target interval, originally based upon 2D-seismic lines only, was revised completely.



Survey area



Seismic raw data and geological model



Data acquisition in the field

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