Fraunhofer IEG

Fraunhofer Research Institution for Energy Infrastructures and Geothermal Systems IEG

Our services for you

Geophysical borehole logging offer

Three main scientific areas

1. **Reservoir characterization.** Using results from geophysical borehole logs, we provide reservoir parameters for the evaluation of geothermal potential and give inputs for numerical models. We support the discrimination of lithological layers and the construction of litho-logs and well tops for the development of geological-structural models. Upon the client's request, we offer more sophisticated geophysical borehole logging data evaluation using advanced petrophysical models.
2. **Reservoir geomechanics.** Using results from geophysical borehole logging, drilling parameters, and hydraulic tests we support the derivation of in situ stress tensor information and evaluate local and regional in situ stress states. We derive rock mass geomechanical parameters and provide inputs for geomechanical and wellbore stability models.
3. **Borehole integrity and reservoir performance.** Based on geophysical borehole logging data, we provide services in cement sheath integrity and corrosion evaluation. We advise on leakage identification and its mitigation from production logging data. Using information from injection and/or production tests we support the evaluation of reservoir productivity and estimation of rock mass permeability.

Fraunhofer IEG offers services in the field of evaluation and interpretation of geophysical borehole logs from single wells and multi-well fields specifically for geothermal energy utilization projects. We hold expertise in three main scientific areas including.

Additionally, to the geophysical borehole log evaluation offer, we support the preparation of geophysical logging campaigns, technical tenders, and market research. We provide services in data editing, splicing, trend, and environmental corrections, data homogenization as well as quality control upon the client's request. We work on professional commercial geophysical logging software, own laboratory and borehole logging tools. Our high-quality expertise can also be applied in the petroleum and coal industries, as well as for carbon and hydrogen storage and utilization projects.

We look forward to your requests.

Contact us!

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