The GEOTREF program, a new approach for geothermal investigation
Frédéric Gérard¹, Simon Viard¹, Michel Garcia², and the GEOTREF members - 1: Teranov, Pointe-à-Pitre, France, 2: KIDOVA, Chaville, France

Abstract

The GEOTREF program is a research, experimentation, and innovation program, which aims to:

1. Research, experimentation, and innovation program, which aims to:
   - Access to data and results stored in the same software.
   - Preserving the conditioning on production performance criteria
   - Equivalent flow & transport property calculation (IMFT, GefWellDyn)
   - Optimization parameters: platform GefGeophy
   - Lithology
   - Induced microseismogram analysis.
   - Faults
   - Calibrating model parameters,
   - Microseismic data processing
   - User sensitivity analysis to improve the understanding of the fractured geothermal reservoirs behavior;
   - Sustainable exploitation of the resource during the production phase.

2. Funding:
   - GEF
   - GEOTREF
   - KIDOVA
   - ENS
   - IPGS
   - Geoazur
   - Armines
   - Geoazur 2016
   - Istituto Geofisico Nazionale della Magnete e Terra, Rome, Italy
   - Geothermal Research International
   - University of Perugia, Italy
   - University of Perugia, Department of Earth Sciences

3. Methodology:
   - Field data collection including all available fracture characteristics.
   - Numerical simulations for reservoir simulation.
   - Sensitivity analysis using all available fracture data.
   - Monitoring and characterization of the reservoirs.

4. Results:
   - Improved understanding of the fractured geothermal reservoirs behavior;
   - Sustainable exploitation of the resource during the production phase.

5. Conclusion:
   - The GEOTREF program is a new approach for geothermal investigation.