

Name: Steven Fercho

Position: Project Geologist

*Technical Expertise: Geothermal Resource Evaluation
Computer-Based Mapping and Modeling
Geologic Mapping
Wellsite Geology
Geophysical Well Logging*



SFercho@geologica.net

Mobile/WhatsApp: +1-775-240-4026

Office: +1-775-526-0436

EXPERIENCE SUMMARY

Steven Fercho brings over 10 years of industry experience as a geothermal geologist in prospect exploration and operating fields. He has been involved in the selection of drilling targets leading to successful geothermal drilling campaigns both internationally and in the western U.S., overseeing wells from start to finish. He also has extensive experience using geologic, geophysical, geochemical, remote sensing, and well data to build 3D models of geothermal fields. He has worked on geothermal projects in all stages of development in California, Nevada, Hawaii, Guatemala, Honduras, China, Guadeloupe, and Indonesia.

EXPERTISE

Geothermal conceptual modeling
Geologic/structural mapping
Well targeting
Wellsite geology
Thermal modeling
Image log collection and analysis
Geochemical sampling
ArcGIS, Leapfrog Geothermal, and other computer-based mapping and modeling

EDUCATION

M.S. Earth and Planetary Sciences
University of California Santa Cruz, 2008
B.S. Earth and Planetary Sciences
University of California Santa Cruz, 2007

PUBLICATIONS

Fercho et al., 2017: Exploration and Development of the Platanares, Honduras Geothermal System. Proceedings: Workshop on Geothermal Reservoir Engineering, 42, (2017).
<https://pangea.stanford.edu/ERE/pdf/IGAstandard/SGW/2017/Fercho.pdf>



REPRESENTATIVE PROJECT EXPERIENCE

Selected Geothermal Resource Development Projects

Geologica Project Geologist (2019-Present)

KSOrka

- Conceptual model development and planning of new wells at **Sokoria and Sorik Marapi, Indonesia.**
- Construction of 3D Leapfrog models for Sokoria and Sorik Marapi, Indonesia.
- Wellsite geology for ongoing drilling at Sokoria, Indonesia.

Confidential Client

- Compilation of thermal data from a wide variety of public sources to generate 3D temperature models for several large areas across Nevada.

Kalahari GeoEnergy

- Construction of 3D Leapfrog model for **Bwengwa River Geothermal Project, Zambia.**

Confidential Client

- Review of geothermal exploration data and preliminary resource assessment for the **Rajabasa Geothermal Concession, Indonesia.**

Ormat Staff Geologist (2008-2019)

Platanares, Honduras

- Field work including geologic mapping, geochemical sampling, and geophysical surveys.
- Compilation of all relevant data to 3D conceptual model.
- Selection of drilling targets leading to successful drilling campaigns at both greenfield and operations-stage.
- Wellsite geology during drilling of all wells.
- Detailed analysis of downhole geologic and geophysical well logs.

Zunil, Guatemala

- Field work including geologic mapping and geochemical sampling.
- Compilation of all relevant data to 3D conceptual model.
- Selection of infield drilling wells to increase plant generation.
- Wellsite geology during drilling.
- Detailed analysis of downhole geologic and geophysical well logs.

Baltazor, Nevada

- Analysis of the geothermal potential of public land for leasing.
- Evaluation field work including geologic mapping, geochemical sampling, and geophysical surveys.
- Compilation of all relevant data to 3D conceptual model.
- Environmental regulatory guidance for exploration well permitting.



- Selection of drilling targets for exploration core drilling.

Amatitlan, Guatemala

- Field work including geologic mapping and geochemical sampling.
- Compilation of all relevant data to 3D conceptual model.
- Wellsite geology during in-field drilling.
- Detailed analysis of downhole geologic and geophysical well logs.

Puna Geothermal Venture, Hawaii

- Wellsite geology during multiple drilling campaigns including careful analysis of rig readings for regulatory blowout prevention.

Bouillante, Guadeloupe

- Field work including geologic mapping and thermal ground measurements.
- Planning of production/injection wells.

Yangyi, China

- Field work including geologic mapping and geochemical sampling.
- Field oversight and troubleshooting during multi-well image logging campaign.
- Detailed analysis of image logs to guide 3D structural model.

Large Scale U.S. and International Prospect Assessment

- Assessment of both greenfield and exploration-stage geothermal prospects worldwide using geologic, geophysical, geochemical, remote sensing, and well data.
- Estimations of geothermal potential including temperature, permeability, and extent to guide decision-making.
- Ranking of prospects against each other regionally to guide land and lease acquisitions.

Corporate GIS Specialist

- Compilation of company-wide geologic and well data GIS databases.
- Digitization and compilation of land/lease holdings to regularly updated GIS database.
- GIS support and training to geotechnical and land department staff.

