
MICHELLE SULLERA

PRESENT POSITION

Reservoir Engineer

EXPERTISE

- Analysis of geothermal well tests
- Numerical reservoir simulation
- Thermodynamics, fluid mechanics
- Multi-phase flow in porous media
- Geothermal resource assessment
- Monitoring and evaluation of drilling and resource development

EDUCATION

M.S. in Petroleum Engineering, Stanford University, 1998

Thesis: "Inferring injection returns from chloride monitoring data"

B.S. in Chemical Engineering, University of the Philippines, 1994

Bachelor of Music, University of the Philippines, 2007

EXPERIENCE

Reservoir Engineer, GeothermEx, Inc., June 2014 to present

- Conceptual and numerical modeling work for a field in Southern Negros, Philippines
- Numerical modeling to generate a base case performance forecast for Dixie Valley
- Resource assessment and due diligence analysis of geothermal field performance: Sorik Merapi (Indonesia), Tiwi and Mak-Ban (Philippines), Soda Lake (Nevada, USA), Cove Fort (Utah, USA), Salt Wells (Nevada, USA), Stillwater (Nevada, USA)
- Support to project financiers in monitoring and reporting on drilling operations and other resource development work
- Resource performance monitoring for Neal Hot Springs, Oregon, USA

Reservoir Engineer, Geothermal Resource Group, 2013

- Analysis of well tests and well logging (leak-off, pressure transient, warm-up, PTS survey)
- Basis-of-design calculations for a power generation project in Alaska
- Pre-exploration research on the geothermal potential of Cambodia
- Development of proposals for exploration and resource development projects
- Analysis of national and local market for ground source heat pump applications
- Appraisal of the performance of a client's drilling program
- Set up of web-based real-time display of field data for remote monitoring

Software Testing Engineer, Schlumberger, 2000

- Tested reservoir engineering software; provided customer support

Research Engineer, ARCO Technology and Operations Services, 1998 to April 2000

- Performed reservoir simulation work on the Kuparuk full field model, history matching approximately 15 years of production data.

Engineer, Philippine Geothermal, Inc., 1995-1996

- Involved in well testing activities, including test design, pressure-transient analysis, and productivity/deliverability analysis.
- Engineering analysis: process modeling, well inflow performance and hydraulics.
- Built a numerical model of surface facilities.
- Designed geothermal fluid sampling procedures and interpreted chemical analyses.

MEMBERSHIPS

- Society of Petroleum Engineers
- Geothermal Resources Council

PUBLICATIONS

R. N. Horne and M. S. Sullera, "Inferring Injection Returns from Chloride Monitoring Data." Presented at the 1999 Stanford Geothermal Workshop and at the 1999 PNOC-EDC Geothermal Conference.

CITIZENSHIP

Philippines