
ERIKA MAY BOWEN

PRESENT POSITION

Senior Geologist, GeothermEx, Inc.

EXPERTISE

- Reservoir petrophysical volumetric analysis, including static modeling, saturation, porosity, and permeability determination from open and cased hole wireline, logging while drilling (LWD), core, and production data
- Wireline data processing interpretation, including sonic geomechanics, magnetic resonance, image log processing and analysis, elemental capture spectroscopy
- Distributed Temperature Sensor (DTS) deployment and data analysis
- Geomechanics for fracture stimulation modeling, drilling risk and evaluation of productive interval(s), including advanced anisotropy for fracture detection, fracture height determination, and Thomson parameters
- Production log interpretation for single-phase and multi-phase reservoirs, including logs run in wells that have complex completions and/or are highly deviated
- Petrophysical characterization of tight (low permeability) reservoirs using wellbore image logs
- Cased hole wireline interpretation, including reservoir saturation, water-flow, and wellbore integrity
- Reservoir facies modeling, including neural network analysis and textural analysis from wireline logs
- Horizontal geo-steering using lateral resistivity (PeriScope), landing correlation with conventional logging analysis; both remote and on-site operations
- Sales, marketing, job planning and monitoring, QC and advising for wireline and LWD logging tools

EDUCATION

Master of Science in Hydrology (Cum Laude), New Mexico Institute of Mining and Technology, Socorro, New Mexico, 1998

Bachelors of Science in Geology (Cum Laude), New Mexico Institute of Mining and Technology, Socorro, New Mexico, 1997

EXPERIENCE

Senior Geologist - GeothermEx, Inc., 2016 – present

Erika is leveraging her extensive expertise in petrophysics, well log analysis and geomechanics to the geothermal space, and is currently working on projects in Indonesia, Turkey, Europe, the United States and Latin America. With a strong customer focus, Erika specializes in the practical

application of leading-edge oil field technologies to the development of geothermal resources in sedimentary basins and more traditional geothermal environments.

Data Services Technical Team Lead / Senior Petrophysicist – Schlumberger PetroTechnical Services, 2012 - 2015

- Responsible for technical sales and client relationship management for Schlumberger PTS California Basin
- Direct line manager responsible for job loading, personnel review, budgeting, forecasting, safety and quality control and incident reporting
- Multi-discipline petrophysical projects, incorporating static model creation (Petrel), varied input data, advanced geomechanical modeling.
- Support cased hole operations, primarily through casing sonic processing and reservoir saturation interpretations
- Representing California Data Services team at Service Quality meeting, forums and conferences and actively communicating with internal and / or external customer to ensure service levels meet expectations

Senior Petrophysicist - Occidental of Elk Hills, 2010 – 2011

- Normalized field wide model update. Data handling from multiple vendors and wide time range of acquired data
- Well completion decision
- Well re-work decisions
- Image log interpretation for field wide fracture analysis
- Production log interpretation and data integration

Senior Petrophysicist - Schlumberger PetroTechnical Services, Anchorage, Aaska, 2008 - 2010

- Sonic log processing and geomechanics, advanced anisotropy
- Neural network based petrophysical model with facies determination
- Real-time geo-steering with LWD data, remote and on site. Lateral resistivity (PeriScope) and real-time density images
- InterACT client support for real-time secure data delivery

US Land-West Well Placement Coordinator - Schlumberger PetroTechnical Services, 2007-2008

- Technical sales and marketing for PeriScope technology
- Training of well placement team, job feasibility studies, staffing placement, team coordination
- Lead well placement engineer on high profile jobs for North American market

Well Placement Engineer - Schlumberger PetroTechnical Services, Houston, Texas, 2005-2007

- New Technology launch team for PeriScope LWD

- Job feasibility studies, input into technical sales,
- Lead well placement engineer on-site real-time geo-steering
- Coordination with multi-department technical team

Senior Petrophysicist - Schlumberger PetroTechnical Services, Corpus Christi, Texas, 2001-2005

- Production log interpretation, two and three phase flow, integrated studies with wellbore petrophysics
- Thin-bed analysis
- Geomechanics and sanding prediction studies
- Casing-drill through casing petrophysical evaluation (ABC – Analysis Behind Casing)

Wireline Engineer - Schlumberger Wireline, Victoria, Texas, 1999-2001

- Lead wireline engineer for field based open hole wireline acquisition

TRAININGS AND CERTIFICATIONS

- Using Core Data in Formation Evaluation. Core Laboratories, September 2011
- Geologic and Engineering Analysis of Naturally Fractured Reservoirs. July 2011 (course taught by L.W. Teufel)
- Integrated Reservoir Analysis: Predicting Reservoir Performance through Collaboration. March 2010 (course taught by Dan Hartman and John Farina)
- Eclipse Thermal Course. November 2009 (Schlumberger course, Calgary, Alberta)
- Schlumberger Log Analyst Training. 2001 (Schlumberger course, Houston, Texas)

SELECTED AWARDS AND ACHIEVEMENTS

- Performed by Schlumberger Bronze Award, 2007
- Schlumberger DCS President's Excellence-in-Action Award, 2007

PUBLICATIONS

Bowen, E., Santillan, E. and Riddle, M., 2014. Post Stimulation Acoustic Measurement of Proppant Placement: California Example in a Mature Field. PSAAPG 2014 Conference, 9 April 2014.

Berwagger, B., Little, J., Mardos, M. and Bowen, E., 2007. Key to Redeveloping Wilmington Townlot Unit. American Oil & Gas Reporter, July 2007, pp. 73-78

Duey, R., Gobble, K., Lancaster, G., Little, J. and Bowen, E., 2007. Taking the Plunge. Hart's E&P Magazine, 2007

MEMBERSHIPS

Geothermal Resource Council
Society of Professional Well Logging Analysts
Society of Petroleum Engineers

CITIZENSHIP

USA