

Kathryn Elizabeth Wavrik

**Kelly Building/PRRC
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OBJECTIVE: A technical position in applied engineering or laboratory/ production engineering

SUMMARY:

- Over ten years' experience doing laboratory research and experiments
- Field engineer experience
- Proficient with hand and power tools, and large machine shop equipment
- Highly motivated and creative
- In petroleum jobs was sole female crew member and interactions were easy and without conflict

EMPLOYMENT:

Petroleum Recovery Research Center, Socorro NM

Laboratory Associate

January 2003 – Present

Laboratory Technician

June 1998 – May 2002

- Viscosity measurements and analysis
- Carbon analysis of polymers
- Conduct research in improved methods of water shutoff in oil wells. This is hands-on laboratory work requiring construction of experiments, making samples, running mechanical and chemical tests, data acquisition and analysis
- Work with data acquisition units and pressure transducers up to 3000 psi
- Designs and uses core flooding apparatus for gel and polymer testing
- Experience with thermal measurements and equipment setup
- Work with machine shop and hand tools: such as mills, lathes, sanders and saws, drills
- In charge of five laboratories: Rheology, Permeability Reduction, Flow in Fractures, Flow Visualization, Core Preparation and Casting
- Train undergraduate and graduate students as well as visiting scholars in laboratory techniques

Halliburton Energy Services, Alice TX

Associate Technical Professional

June 2002 – December 2002

- Experience with fracturing stimulation, cementing, coil tubing, logging and perforating
- Acid and Sand Fracture Stimulation
- Experience with high-pressure lines and equipment
- Assembly of high-pressure lines
- Worked with pumps, pressure transducers, plunger systems, blenders etc.
- Measurement/control system – data acquisition units, J-lan connections, Automated Remote Control Systems, Automated Control Equipment, collection of data, calibration of equipment
- Quality Control of fluids and chemical analysis
- Water analysis

Texaco Exploration and Production, Midland TX

Production Engineer

June 2001 – August 2001

- Field engineering on oil production equipment, including well stimulation, wellbore logging and well workovers
- Experience working with field craftsmen
- Designed workovers of wells in the Penwell area
- Participated in acid fracture, coil tubing, wireline, downhole video recording, cementing, and squeeze jobs

EQUIPMENT EXPERTISE:

Paar Physica MCR 301 Rheometer, Anton Paar ASC Rheometer, Brookfield Viscometers, Ubbelohde Viscometers, V-E System, Isco Syringe Pumps, Shimadzu total Organic Carbon Analyzer (TOCA) and Nitrogen Analyzer, Honeywell Transducers and Smartfield Communicators, Agilent Data Acquisition Units, stir plates, overhead mixers, balances, computers and their programs that pertain to the experiment

EDUCATION:

B.S. Petroleum and Natural Gas Engineering
New Mexico Institute of Mining and Technology, 2002
GPA: 3.04/4.0