Two recent PTTC/PRRC workshops found attentive audiences among New Mexico producers in the Permian and San Juan Basins interested in finding solutions to their troublesome wellbore management and corrosion problems. The SW PTTC developed these workshops to address the needs of production teams for more basic information about such issues as corrosion, scaling, and other factors that can cause equipment failure and downtime.

**Wellbore Management**

The Wellbore Management Workshop was held in Artesia on February 13 to help independent oil and gas operators reduce well failures. It was co-sponsored by the Southwest and Texas-Permian Basin Regions of the Petroleum Technology Transfer Council.

Industry experts weighed in with wellbore problems, case studies, and successful action plans and programs for reducing well failure frequencies. Kent Gantz and Ed Delgado of Schlumberger talked about improved methods to optimize and repair producing wells. Bill Webb, of Bill Webb Inc. Consulting, presented an aggressive plan to reduce rod and tubing failure that proved successful for a number of Permian Basin wells. Noel Putscher, from Amerada Hess, discussed the Artificial Lift Consortium and its successful method of sharing beam pump data among its membership to mitigate wellbore failure. Lynn Rowlan and Jim McCoy of Echometer presented a sucker-rod lift field case study. Ken Barker of Baker Petrolite discussed methods of restoring production to damaged wells, once the damaging mechanisms are understood.

**Corrosion Management**

More than 30 industry participants gathered in Farmington for the June 25 Corrosion Workshop presented jointly by Martha Cather, PTTC Industrial Coordinator at the PRRC and PI on the NM WAIDs project, and Ibrahim Gundiler, co-PI on the NM WAIDs project and corrosion expert at the New Mexico Bureau of Geology and Mineral Resources. About 30 attendees from a number of companies, mostly in Farmington, were present.

Four industry experts covered various aspects of corrosion in oil and gas pipelines. Mike Cloud, Champion Technologies, discussed field water sampling and analysis, effects of corrosive gases and bacteria, treatment methods to prevent corrosion, and corrosion inhibitors. Rich Martin, BJ Unichem Technical Services presented reasons for and speed of internal corrosion, how corrosion inhibitors function; corrosion inhibitor application; corrosion monitoring; oilfield metallurgy, and corrosion failure analysis. Experts Kent Gantz, and Ken Barker gave encore presentations of their successful talks on implementation and improvement of production optimization and wellbore equipment repair procedures and methods of restoring production to damaged wells.

In response to the high interest shown in these workshops, another workshop on corrosion is being planned for Fall, 2002 in Artesia.

To obtain copies of these workshop proceedings, please contact us at 505-835-5406 or by email: lizb@prrc.nmt.edu. For upcoming project reviews and workshops, see our calendar of upcoming reviews and workshops on page 3.
New Well Data Product Now Available

A joint effort from the SW RLO, PRRC, and NMBGMR, our Well Location Data CD is now available. This CD contains information for about 110,000 wells in the state.

Data compiled from six sources can be viewed with GIS programs ArcView or ArcExplorer (included on the CD), or a straight text file that can be imported into Microsoft Access or other database program.

Data includes basic information such as well name, operator, location both in lat/long and TSR, and in some cases, information about spud or completion date and elevations. Particularly useful is the information about old wells and dry holes. Location data is current up to May 2002.

Using ArcView or ArcExplorer, you can get information about specific well spots, or select multiple well spots based on one or more criteria, and create simple maps.

The price of the NM Well Location CD is $40.00. Contact Martha Cather at martha@prrc.nmt.edu or (505) 835-5685 for more information.

PRRC Researchers Gain Professional Honors

Two PRRC senior scientists were recently honored with awards that recognized their contributions to science.

New Mexico Tech presented its award for Distinguished Researcher of 2002 to Dr. Randall Seright, who heads the PRRC’s Reservoir Sweep Improvement group. The award was presented at commencement ceremonies on May 11, 2002.

New Mexico Tech’s Distinguished Researcher is chosen by a committee of peers—fellow Tech researchers—based on letters of recommendation both from Tech people and from outside people who are experts in the particular field in question.

Dr. Seright’s research interests focus on methods to prevent fluid channeling through reservoirs and to reduce excess water and gas production during oil recovery. Currently, the emphasis is on using gels for this purpose. Dr. Seright is considered one of the world’s leading authorities in this field and his program in this area has come to be recognized as the world’s leading such program.

Dr. Jill Buckley, leader of the Petrophysics and Surface Chemistry Group at the PRRC, recently won the Society of Core Analysts’ Technical Achievement Award for 2002.

The Society of Core Analysts is a division of the Society of Professional Well Log Analysts, an organization dedicated to the advancement of the science of petrophysics and formation evaluation, and to the service of scientists in the petroleum and mineral industries. This award is the SCA’s highest honor and only award for technical achievement. It is bestowed annually upon a scientist who has made outstanding contributions to the advancement of core analysis technology.

Dr. Buckley’s research interests focus on the interactions between crude oils and their surroundings, with emphasis on mechanisms of wettability alteration, effects on immiscible fluid displacements, and the colloidal and wetting properties of asphaltenes.

2002 Is Not Over Yet!
Several more PTTC workshops are still coming up:

- Fall 2002
  Corrosion Management, Artesia/Hobbs
- Dec. 4-5
  Produced Water Management, Farmington
- Dec. 4-5
  CO₂, Midland
**Publications, Presentations**


---

**Our Produced Water Management Forum is in December!**

We're trying to gather producers, regulators, NETL/DOE personnel, scientists from Sandia National Laboratories—and more!—to showcase our latest efforts in handling produced water.

**Mark your calendar—December 5–6 in Farmington!**
The PRRC is a state-supported center that conducts research designed to improve methods of recovering crude oil and natural gas and transfers petroleum technology to domestic oil producers. Funding for the PRRC comes from three sources: the State of New Mexico, the federal government (Department of Energy), and private industry.

New Mexico Institute of Mining and Technology
Daniel H. López, President

Board of Regents
Gary Johnson, Governor of New Mexico
Michael J. Davis, Superintendent of Public Instruction

Ex Officio
Ann Murphy Daily, Santa Fe
Randall Horn, Placitas
Anthony L. Montoya, Jr., Secretary-Treasurer, Socorro
Robert E. Taylor, Silver City

Appointed
Sidney M. Gutierrez, President, Albuquerque

Petroleum Recovery Research Center
A Division of New Mexico Tech

New Mexico Oil-Price History

Posted oil prices courtesy of Navajo Refining Co; oil stocks courtesy of the Oil and Gas Journal; spot oil prices taken from various sources.

Non-Profit Organization
U.S. Postage Paid
SOCORRO, NM
PERMIT NO. 9