



WATER WELL REHABILITATION

Water Well Problems & Effective Solutions



Hosted by the Nevada Water Resources Association



About the Instructor: Neil Mansuy, M.Sc., has more than 30 years of extensive, worldwide well rehabilitation experience holding a M.Sc. Degree from the University of Regina, Regina, Saskatchewan, Canada, specializing in iron-related bacteria and causes of well plugging. He has recommended solutions to thousands of wells, aquifers and water systems with lost capacity and water quality problems including “unsafe” bacterial results. Neil is Vice President of Technical Services for Subsurface Technologies Inc. in Kansas City, Missouri and works as a well rehabilitation specialist for STI and its related companies.

Topics to be discussed will include:

- The economic advantages of efficient water wells
- The components of water wells, (casing screens, pumps) and definition of basic water well terminology
- Basic water well hydraulics
- Iron Bacterial Problems
- Summary outline of the mineral, biological and physical reasons for well blockage
- Biofouling of wells
- Understanding problems of wells
- How physical well blockage can occur: drilling fluids, fines migration and sand-pumping
- Sources of blockage from drilling mud
- Chemical Remediation methods
- Well Rehabilitation Equipment
- Necessary steps for effective rehabilitation
- Outline of principal mechanical techniques available for well rehabilitation
- Swab and bail, blasting, wire brushing etc.
- Hiding a problem or a long term fix for water quality
- Presentation of a selection of well rehabilitation experience to illustrate the process of diagnosing the cause of declining well yield and the importance of matching solution(s) to the problem(s)
- Cost-Benefit evaluation of well rehabilitation
- Physical methods and Aqua Freed well rehabilitation experience
- New concepts in well maintenance
- Case studies of effective well maintenance
- Private well owner rehabilitation alternatives
- Aqua Gard — very Cost effective well maintenance technology

Contact Hours Available / CEU approval for attendees

Cost:

as a companion class to Well Design Workshop on June 10 . . . \$125
 as a stand-alone class not in conjunction with June 10 class . . . \$200
 Student \$15

Date: Wednesday, June 11, 2014

Class Time: 8:30 AM–3:30 PM

Location: Washoe County Dept. of Water Resources
4930 Energy Way, Reno, NV 89502

Note: Seating is limited, so we advise you to register early.

June 11, 2014 Well Rehabilitation Class Registration

To register, visit www.nvwra.org or complete this form and mail with your check made payable to NWRA to:
NWRA, P.O. Box 8064, Reno, NV 89507

Cancellation/Refund Policy: Cancellation of registration or request for refund must be made in writing by May 31, 2014. All refunds will have a \$25 processing fee.

Mr. Ms. Mrs. Dr.

Name _____ Degree/Suffix _____

Affiliation _____ Title _____

Address _____ City _____ State _____ Zip _____

Phone Number _____ E-mail _____

For more information, please call Tina Triplett at 775-473-5473 or visit us at www.nvwra.org