



Thursday, November 4, 2010

Geology/Hydrology, Geophysical Logs, Well Construction, and Groundwater Monitoring
(All day with AM classes and PM "hands-on" formation sampling activity and well design exercise)

Takeaways: As a result of this workshop, you will have

- earned 7 CEUs to fulfill requirements for any license or certification renewal,
- made contacts with groundwater professionals who can offer assistance with future problems or opportunities,
- increased your technical knowledge of concepts/procedures important in high quality well design
- gotten "hands-on" experience with formation sampling and analysis,
- received practical experience and feedback in designing a "sample" well.

Coursework: AM

- Practical geologic/hydrologic concepts that affect water well location, design, and construction, including groundwater occurrence in unconsolidated sediments and fractured bedrock environments, permeability and porosity, role of geologic structure.
- Geologic and topographic factors in well location and well-head protection emphasized.
- Fundamentals of geophysical logs, both for uncased test holes and in cased holes.
- Elements of well design, with respect to casing, screen, gravel pack.
- Sealing for small and large diameter production wells
- Monitoring wells

PM

- Participants will have "hands on" activity with formation samples and geophysical logs
- Participants will design a well, based on what they have learned in previous sessions.

Instructors: Jeremy Wire, President, Geoconsultants, Inc. San Jose, CA

Mr. Wire has nearly 40 years of experience in the application of hydrogeology and geophysics to groundwater development, and water well location, design, and construction.

He holds Bachelor's and Master's degrees in geology from Pomona College and UCLA, and is a registered Geologist and certified Hydrogeologist in California, and Professional Engineer (Geological) in Nevada.

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Mark Sharpless, Welenco/Water Well Technology, Bakersfield, CA

Mr. Sharpless has 40 years of experience in geophysical well logging and applications of both open hole and cased hole logs in the water well and oil, gas and geothermal industries. He attended college in Buckhannon, West Virginia and began his career in 1971. He held several different positions in the oil patch before becoming an open hole geophysical logger. He served as District Manager for NL McCullough for 6 years before coming to Welenco in 1989. In addition to his geophysical skills, he currently holds a California blasting license and has held several other state blasting licenses.

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