



Friday, November 5, 2010

Pump Efficiency Testing

(2 hour morning seminar on pump efficiency testing)

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

- earned 2 CEUs to fulfill requirements for any license or certification renewal,
- made contacts with groundwater professionals who can offer assistance with future problems or opportunities,
- learned how to read a pump performance chart and friction loss charts for pipe
- determined the effects of pumping levels on pump capacity, and the importance of recording both static and pumping levels of a well.
- learned how to estimate drawdown using only the well pump and a pressure gauge.
- determined if the pump and drop pipe are correctly sized for maximum efficiency in a particular well, based on information obtained during a pump test.
- determined if a pump is worn out or if there is a hole in the drop pipe.

Coursework: The course will concentrate on small 4" residential size well pumps, although the principles also apply to larger pumps.

- Principles of pump performance
- Effects of friction loss in pipe on pump efficiency
- Estimating drawdown in wells
- Effects of pumping level on pump capacity and efficiency
- Principles of pump and pipe sizing to maximize pump efficiency

The attendees will be given a set of well test data from actual and sample wells. Then they will be asked to use the data, to size a well pump and drop pipe in these wells for maximum efficiency.

Instructors:

Emil Worm, President, L.O. Lynch Quality Wells & Pumps, San Jacinto, CA

Mr. Worm has 36 years experience in water well drilling in domestic, commercial and agriculture applications and pump installation ranging in size from domestic to turbines. He was raised in South Dakota and started work in the industry at his father's well drilling business before moving to California in 1982.

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Tim Guishard, Owner, Tim Guishard Enterprises, El Cajon, CA

Mr. Guishard obtained his contractors license in 1984. He is certified by the State as a Water Treatment Plant Operator grade T1. He holds certificates from AWWA as a Cross Connection Control Specialist and a Backflow Assembly Tester. He is frequently referred, by his local Health Department, to decontaminate water systems and wells, many operated by small community water systems. He is a past president of the Southern California CGA Branch.

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