



Waterwell and Groundwater Monitoring Newsletter

April 2014

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Canadian Pipe & Pump Supply is an industry leader engaged in the manufacturing and distribution of pipe product used in waterwell and groundwater monitoring applications. In addition, we supply pumps and accessories used in conjunction with our pipe. We firmly believe in helping our customers grow their businesses. Our skilled team of industry experts can help select the proper product for your application or help to design a custom solution.

We have four locations across Ontario to serve your needs. Please visit us at one of our branches located in Toronto, Orillia, Ottawa or Tillsonburg.

QUIK-GEL® Description & Discussion

QUIK-GEL® is a high-yield, premium grade, 200-bbl per ton, Wyoming sodium bentonite designed specifically to address the needs of the Water Well industry. Since its inception in 1959, QUIK-GEL was designed to address the specific requirements of water well operations. The additive package selected allows for the development of a low-solids system with filtration control that fully hydrates within 15-20 minutes with adequate pre-treatment of make-up water and effective mixing equipment. Standard oilfield bentonites (API Specification 13-A, Section 9) develop only a yield of 90-92 bbl/ton and require 24 hours to fully hydrate and yield with substantial shear during mixing. The critical requirements of water well operations demand a bentonite material that takes minimal time for mixing and hydration so that no un-yielded material is introduced into the production zone and rig time is optimized.

The design of QUIK-GEL addresses other concerns that are vital to effective water well operations. QUIK-GEL allows for effective filtration control through the development of a thin, semi-permeable filtercake across permeable formations. This reduces invasion into the production zone, enhances borehole stability thereby reducing development time and optimizing well productivity.



Effective solids control and cuttings removal is essential to any water well drilling operation. To address this issue QUIK-GEL was designed to impart effective viscosity at minimal concentrations. This factor allows for the development of a low-solids drilling fluid with a manageable viscosity that enhanced cuttings removal and subsequent formation evaluation. This level of viscosity is achieved without the development of progressive gel strengths thereby allowing solids to be dropped at the surface. This promotes the maintenance of a low-solids system which reduces the hydrostatic pressure exerted on the formation and aides in the control of whole fluid loss to the formation.

QUIK-GEL has set the standard for hi-yield bentonites for water well operations and is ANSI/NSF Standard 60 certified for use in potable water well environments. QUIK-GEL has a proven track record and remains a key component in any water well drilling fluid system.

We at CP&PS are proud distributor of QUIK-GEL. Be sure ask your CP&PS representative any questions that you have about this product.

We look forward to your business and partnering with you to help drive your growth in 2014.

Sincerely,

Robert Martini
Vice-President General Manager