

WAVEFRONT ENERGY AND ENVIRONMENTAL SERVICES INC.

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NEWS RELEASE

TECHNOLOGY DESCRIPTION

Wavefront Energy and Environmental Services Inc. (the "Company") develops and implements innovative technologies for fluid flow optimization and process monitoring to meet the unique challenges of our global clients. To that end the Company operates two distinct business units, Monitoring and *Pressure Pulse Technology (PPT)* that operate in both the energy and environmental sectors.

Pressure Pulse Technology

Core to the Company's future, includes but is not limited to, is its intellectual property of *Pressure Pulse Technology*. No other company in the world except Wavefront and its subsidiaries offers equipment and services that incorporates PPT for the petroleum and environmental sectors.

PPT is a proven injection technology for enhanced fluid flow in natural and man-made porous media. The major applications of PPT are for improved oil recovery, and remediation of contaminated groundwater. However, PPT is not a stand-alone remedy. Instead, it is an enabling technology that improves the performance of other systems, such as water injectors (for use in improved oil recovery, optimized pump-and-treat systems, etc.), the placement of acids for single well reservoir stimulation, and *in situ* environmental remedies.

PPT – How Does PPT Work?

All porous media is elastic. The porous media may be unconsolidated sediments, consolidated sediments or consolidated sediments that are fractured. Implemented optimally for a given porous media PPT generates a fluid pulse with a sharp rise time but a longer decay time. The fluid pulse causes a momentary elastic dilative response of the porous media. The dilation of the porous matrix now allows fluid to move through larger pore throats and reduces the incidence of preferential flow paths. When the porous media elastically contracts to its original state there exists a higher pressure at point **x**. In this instance PPT not only allows fluids to be injected more efficiently but the higher pressure in the formation couples to greater flow through the media.

Energy Sector Application of *Pressure Pulse Technology*

PPT is proven to lead to greater oil recovery and greater energy security. In the energy sector results have been gained in Canada and Germany for increased recovery in heavy oil. However, management believes PPT will have greater impact in lighter oils. When fully field implemented globally oil producers will benefit from PPT, and management believes that PPT will lead to a meaningful increase in the overall oil recovery.

This is demonstrated in our most recent waterflood results, being formally presented October 21, 2003, where, on average, injectivity increased by 30%. This is significant because if more fluid can be injected during secondary oil recovery by waterflooding then, at some point, more fluid must be produced by the production wells. These same benefits are applicable to short-term single well workovers that involve chemical injections.

Implications to the oil industry of properly executed *Pressure Pulse Technology*:

1. Field life is prolonged.
2. Fields that are largely depleted can be subjected to another production cycle hence more reserves will be recoverable.
3. Oil is produced faster, and fewer wells are required for the same oil production.

Environmental Sector Application of *Pressure Pulse Technology*

PPT has been successfully implemented in Canada and the United States for environmental applications. Many of the challenges encountered in aquifer remediation can be overcome through the application of certain types of dynamic energy. By instituting a PPT program Wavefront is able to enhance the mobility of all types of liquids, including viscous Non Aqueous Phase Liquids (NAPLs) such as coal tar at manufactured gas plants (MGP) sites, volatiles (i.e., Trichloroethylene or TCE), bio-enhancement and chemical treatment remedies, surfactants, etc. Other applications include optimizing the performance of pump-and-treat, and dual phase extraction systems as well as hydraulic control of contaminant source zones. Management believes PPT will expedite remedial processes, reducing long-term risks and obligations, and allowing for earlier exit strategies from contaminated sites.

The **Environmental Technology Verification (ETV)** program provides validation and independent verification of environmental technology performance claims. This initiative has been developed to promote the commercialization of new environmental technologies into the market place and thus provide industry with the tools to address environmental challenges efficiently, effectively and economically. Wavefront successfully completed the verification process and was awarded the ETV Certificate at the Americana Conference on March 28, 2001 by the Minister of the Environment, the Honorable David Anderson.

Wavefront is a service contractor that provides sound technical and environmentally responsible solutions to the challenges facing the environmental and petroleum sectors. Through implementation of innovative technologies Wavefront provides a focused, bottom-line approach that enhances human health, the environment and protects our clients' investments.

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ON BEHALF OF THE BOARD OF DIRECTORS

WAVEFRONT ENERGY AND ENVIRONMENTAL SERVICES INC.

"D. Brad Paterson" (signed)

D. Brad Paterson,
Director & CFO

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