

# Wavefront has the technology to squeeze you dry!

Canada-based Wavefront Technology Solutions Inc. has pioneered Powerwave - a unique system to extract huge amounts of extra oil from seemingly spent wells.

"Powerwave enables a company to increase the ultimate oil recovery from 30% to upwards of 50-60% by ensuring that the injected fluids - the water flood - is distributed throughout the reservoir in a more uniform manner, pushing the oil forward to production wells," says Wavefront president and chief executive Brett Davidson.

Originally established in 1997 under the name PE-TECH Inc., Wavefront was formed to develop and market technologies in the energy and environmental sectors, which it has done with its Powerwave injection process for oil recovery and its similar Primawave process for environmental applications.

### Increasing well production

The company claims that the unique processes can improve liquid flow in the ground for enhanced oil recovery and environmental groundwater remediation. These processes generate a fluid pulse which momentarily expands the pore structure of rock and soil. As a result, fluid that has never moved before, flows freely. In the oil sector, it is claimed that Powerwave can transform low-producing, or even abandoned fields, into newly profitable reservoirs.

Traditional oil extraction methods typically result in 10-20% recovery, meaning that roughly 80% of the oil remains in the ground. Powerwave technology is now being used to extract oil from low or non-producing wells in both the United States and Canada, thereby helping North America to produce more domestic oil by

squeezing more out of existing sources. Customers - from small independents to mid-size and major operators - have used Powerwave effectively to increase production levels. In some cases, the Powerwave process has helped to increase individual well production by more than 1,000% and secondary field recovery more than 30%, says Wavefront. To date, Powerwave has been used in around 175 wells in North America.

### Environmental remediation

In the environmental sector, Wavefront says its Primawave process is a simple and cost-effective solution used to enhance the effectiveness of pump-and-treat and in-situ chemical oxidation applications, which are used to remove harmful chemicals and other pollutants from contaminated groundwater.



Wavefront president and chief executive Brett Davidson

Utilising the same scientific principles as the Powerwave process, Primawave has been adapted to meet the unique requirements of the environmental remediation market.

[www.onthewavefront.com](http://www.onthewavefront.com)



Powerwave technology in action

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