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John McKendry
Managing Director
Aquatronic Solutions International
Gisborne, New Zealand

Dear John,

The Electromagnetic Seismic (EM Seismic) technology developed by Aquatronic, Gisborne, NZ over the last 20 years has emerged as a major development in geophysics in recent times. This is due to enhanced interpretative capacity which can extract a range of important characteristics.

It shows remarkable accuracy from a few metres to 6,000 metres in depth. Its data acquisition costs are amongst the lowest of any geophysical technique. Importantly, the data collection field methods are themselves quite simple. The interpretation services offered by Aquatronic are delivered with short pauses from the receipt of data and the detailed processing of same. This enables adjustment of surveys in real time to gain the best outcomes from point densities etc.

The technology has developed to the extent that it delivers the concurrent determination of an extensive range of important petrophysical characteristics. These include determining differing stratigraphic layers in soft sediments, mapping quartz distributions in vein deposits that often contain gold, determining joint and fault patterns, location of aquifers both fresh and brackish (importantly determining the distinction between the two), determining oil and gas deposits relative to existing well controlled data and also extensions.

Personally, I have used Aquatronic for hard and soft rock interpretations in Australia and in the USA. The technology has been used on gold bearing quartz drilled controlled deposits with a high degree of accuracy.

The EM Seismic technology will be an important adjunct to mapping the internal behaviour of fluid paths etc in spent ore heaps totalling as much as 200 million tonnes in Nevada, USA. It will be particularly useful in determining the depth to the pad membrane and whether or not there are any leaks.

With kind regards,



Ian MacCulloch, Managing Director