

# Geoseis – an exciting New Way of Directly Track Fluids in Fracking

## What can we do for you?

We track the fracking process in much more detail to give you information on the process – and the surrounding fluid saturated ground.

We commercialize an exciting new technology to locate water and other fluids for the first time **directly**. This new technology substantially increases knowledge about what exactly happens during the fracking process, which increases success rate of the operation.

Because our technology is totally different from standard seismic technique, it should be used in a complementary way.

## What is Geoseis?

We are a small geophysical engineering company (LLC). Capacity for fracking or other investigations will initially be 4 large ones per year.

## What is our technology?

Our technology is radically different from existing seismic techniques which primarily detect location and structures in the sub-ground. Our analysis is based on signal shape due to the interaction of the fluid with the ground from which fractures and fluid presence can be inferred. We have the world's top specialist in the fluid dynamic field at hand in support of this technology.

We are developing a set of tools for this analysis. Two patents are being processed and are close to or have been issued.

## How do we interact with fracking?

High pressure water and compounds applied to the well expands and extends fractures in the ground around the well, generating secondary "porosity". During this process fractures grow and the fluid penetrates into the fractures and interacts at the same time with the rock. This produces typical seismic signals, signature like. These signals we measure and analyze. Aside from triangulation, they tell a lot of details about the process causing the signals.

We can, aside from location, determine extent, extension, geometry, physical properties and fluids involved (primary present and injected).

We additionally gain information beyond the fracking process itself: the energy released into the fluid body tends to excite the fluid body's interaction with the surrounding rock also, giving information on the fluid body – or if it is missing.

We can tell a lot more than than a the typical seismic analysis of the seismicity of the fracking operation.

## What is our product?

We offer small or regular investigations for tracking the fracking process using special instruments. These followed by interpretation to establish what happened during fracking, from preliminary to higher details. The technology is extensible, e.g. offshore application.

## What kind of interpretations do we offer?

There is a large spectrum starting with qualitative interpretation (currently available) going to fully quantitative interpretation (in development) consisting of full modeling, using specific physical concepts. Differentiation between fluids is the king of interpretation. The result is a statement about the progress of the fracking process as well as overall fluid presence.

## What does the customer get?

We analyze the fracking process in much more detail especially what its fluid aspects are involved. The results will be presented and a report delivered. The goal is to interact with customers to address his specific problem areas and how to address them. We closely interact with customers with a focus on mutual benefit, thereby we can solve difficult customer issues. High quality at a fair market value is the goal.

## What is our contact information?

Europe: Geoseis-Zuercher Zelgmattweg 3 5507 Melligen Switzerland 0041 491 2204  
USA: Geoseis 1220-87F Tasman Drive Sunnyvale, Ca.94089 USA 001 408 734 4955  
website [www.geoseis.org](http://www.geoseis.org) e-mail [hzuercher@geoseis.org](mailto:hzuercher@geoseis.org) [hzuercher9@aol.com](mailto:hzuercher9@aol.com)