

'Slow & Easy' Stimulation Process for Enhanced Geothermal Systems (EGS)

Terralog Technologies Inc.™ offers clean energy geomechanics services for geothermal energy applications.

Terralog Technologies Inc. (TTI) has developed and pioneered the use of an innovative hydraulic stimulation method, called the **'Slow & Easy' stimulation** process. The Slow & Easy process offers a proven stimulation solution for enhanced geothermal energy development.

TTI has acquired global field experience and a rigorous database from Slow & Easy stimulation projects in unconventional petroleum resource development. This experience uniquely positions TTI to provide its Slow & Easy stimulation services to the Enhanced Geothermal Systems (EGS*) industry.

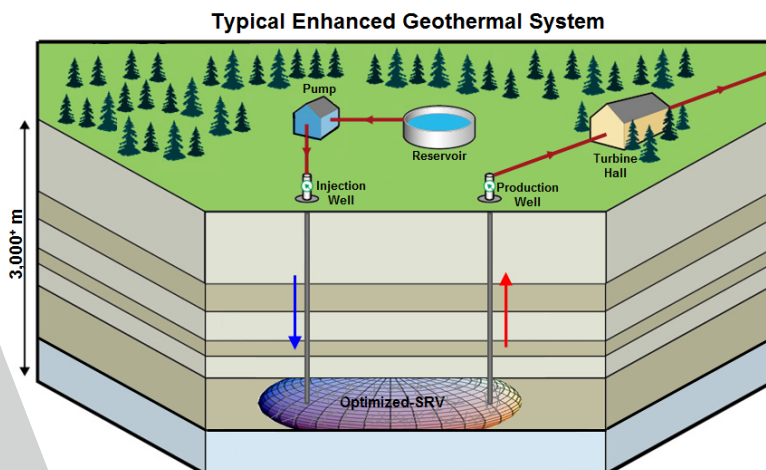
The Slow & Easy process is specifically designed for hydraulic stimulation of tight, stiff rock. An Optimized-SRV (O-SRV) is created in the target formation by inducing complex geomechanics. The O-SRV gives more effective & controlled fluid conductivity enhancement in the target formation.

The Slow & Easy technique is proven to provide more sustained fluid conductivity enhancement results for very tight/stiff rocks vs conventional massive staged hydraulic fracturing.

The Slow and Easy hydraulic stimulation approach is ideally suited for **EGS reservoir development**.

Slow & Easy Advantages:

- ✓ **Significantly reduced stimulation & completion costs:**
 - Less field equipment/personnel mobilized to location (reduced traffic, equipment footprint, and noise)
- ✓ **Reduction and mitigation of environmental risks:**
 - Improved wellbore integrity
 - Reduced risk of induced seismicity
 - No contamination of groundwater or surface water resources
- ✓ **Sustained conductivity enhancement of the target formation being stimulated for EGS reservoir development.**
- ✓ **S&E stimulation is the convergence of: environmental sustainability – new geo-stimulation technology development - formation injectivity & conductivity enhancement – improved EGS* heat extraction performance.**



Features of the 'Slow & Easy' (S&E) Stimulation for Geothermal Development

- Innovative stimulation of very low-permeability, stiff formations.
- S&E process utilizes a lower injection rate and multi-stage cyclic injection approach for more effective fluid conductivity enhancement *in situ*.
- Induced complex geomechanics improve and optimize overall SRV.
- With geothermal reservoir characterization, superior Optimized Stimulated Rock Volume (O-SRV) development can be achieved.
- The O-SRV provides for improved *in situ* heat convection and heat extraction.

Slow & Easy Geothermal Applications:

- *Enhanced Geothermal Systems: utilization of hot dry rocks for heat energy extraction. S&E provides improved EGS reservoir development, via direct fluid injection/extraction, and with closed-loop systems.
- SedHeat: extraction of heat energy from production of hot/warm fluids in sedimentary rock basins.

For more information please contact:



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