



ENhanced Geothermal Innovative Network for Europe **ENGINE**

Workshop 4

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Well stimulation using explosives

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Main objective of the poster:

- Experiences in shallow wells can be useful for geothermal wells
 - low cost
 - direct control of effects
 - multiply the experiences
- Several stimulation and testing techniques have been applied to groundwater wells
- Experiences in groundwater can be controlled in several wells at very low costs

IGME experiences using explosives:

- Several wells with different materials
 - Sandstones, granites, metamorphic
- Several types of explosives
- Several disposition of the explosives

Control of effects:

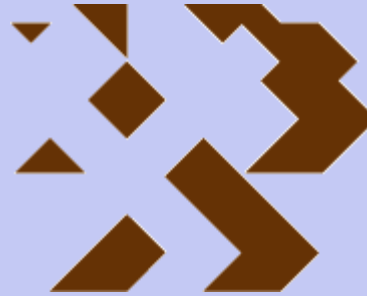
- Sismicity
- Damage of wells
- Hydraulic parameters
- Conectivity

Other problems:

- Legal aspects and normative
- Social impact

Main conclusions:

- Favorable effect in productivity (?)
- In some cases decrease the permeability
- Increase the porosity
- Useful for massive rocks without fractures
- Possible damage of the wells



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Thank you for your attention

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