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Mechanical evaluation of self-healed cementitious material

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The research within self-healing cement materials is addressing challenges which could extend the life-time of oil wells and the potential for increased recovery by enhanced well conformance treatment. The main objective of this project is to develop a suitable and mechanically realistic mechanical evaluation method to characterize the functionality of self-healing of cementitious materials in Oil & Gas wells. The test methods developed should be able to determine:

- The degree of healing the crack – can fluids and gas flow through the healed crack?
- The strength of the healed crack,
- The stress-crack opening behavior of the healed crack vs original material.

Category*:* CTR.2, results of 2 sprint projects