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Title of Ph.D. thesis: Permanent CO₂ fixation in basaltic rock: Characterization of the rocks at the injection site

Description: Improving the stratigraphy of the injection site

- Alteration state of the injection rocks
- Whole rock chemical analyses
- XRD and SEM analyses of the rocks
- Chemical analyses of the ground waters before injection
- Assessment of the saturation state of primary and secondary minerals before and after injection

Supervisors: Dr. Sigurður Reynir Gíslason, Institute of Earth Sciences, University of Iceland and Björn S. Harðarson, Iceland GeoSurvey.

Education: B.Sc. in geology from the University of Iceland 2007.

Papers and abstracts:

- **H. A. Alfreðsson**, B. S. Hardarson and H. Franzson, 2007. *Borehole HK-31 in Threngsli, Hellisheidi: Stratigraphy, alteration and permeability* (in Icelandic). ÍSOR-2007/030.
- **H. A. Alfreðsson**, B. S. Hardarson, H. Franzson and S. R. Gíslason, 2008. *Permanent CO₂ fixation in basaltic rock: Characterization of the rocks at the injection site*. Natural Science Symposium 2008 at University of Iceland.
- **H. A. Alfreðsson**, B. S. Hardarson, H. Franzson and S. R. Gíslason, 2008. *CO₂ sequestration in basaltic rock at the Hellisheidi site SW-Iceland: The stratigraphy and chemical composition of the rocks at the injection site*. *Geochemistry of the Earth's Surface 8 (GES8)*.

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