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Title of Ph.D. thesis: Mineral sequestration of carbon dioxide from geothermal activities in seawater.

Description:

Performing CO₂ charged pressurized seawater-basalt experiments to find out whether seawater can be deployed for mineral sequestration of CO₂ from geothermal activities and monitoring CO₂ charged borehole fluids.

Modelling experiments and borehole fluids using reactive transport models.

Supervisors: Domenik Wolff-Boenisch and Sigurður Reynir Gíslason, Institute of Earth Sciences, University of Iceland.

Education: M.Sc. in geology from University of Iceland, Reykjavik, Iceland

Abstract:

Gebrehiwot K., Koestono H., Franzson H., Mortensen A.K., 2010. Borehole Geology and Hydrothermal Alteration of Well HE-24, Hellisheiði Geothermal Field, SW-Iceland, Proceedings World Geothermal Congress 2010, Bali, Indonesia, 25-29 April 2010.

Thesis

Mesfin, K.G., 2010. Subsurface geology, hydrothermal alteration and geothermal model of Northern Skarðsmýrarfjall, Hellisheiði geothermal field, SW Iceland, Master's thesis, Faculty of Earth Sciences, University of Iceland, pp.116.

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