

Ómar Sigurðsson, Þórður Arason & Valgarður Stefánsson (1995), Reinjection strategy for geothermal systems, *Proceedings of the World Geothermal Congress*, International Geothermal Association, World Geothermal Congress, Florence, Italy, 18-31 May 1995, 1967-1971.

In this study, hypothetical geothermal systems were constructed and used in numerical simulations to examine the effects of various reinjection strategies on the energy extraction and longevity of the resources. After testing the system with infinite, open and closed boundaries, a closed system was chosen to make the effects of the reinjection more distinct. Several well patterns were compared for both shallow and deep reinjection into the reservoirs. In the first stage of the study, presented here, the main emphasis was put on two phase geothermal systems. For completeness, some results are presented for liquid dominated systems as well as vapor dominated systems. The results favor reinjection strategy in which the emphasis is on thermal sweep. Peripheral and dipole configurations for the reinjection wells appear to conform to the strategy goal for liquid and two phase systems.