

SOLUTION MINING RESEARCH INSTITUTE

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**MEETING
PAPER**



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Flow Process Modelling in Caverns at Several Storage Technologies

Presented at the SMRI-Fall Meeting 1994

Hannover, Germany

1. Task of Modelling

Multidimensional simulation models are used in construction and operation of salt caverns in which are basing flow processes in cavern and heat conductivity processes in surrounding salt rock. Principle task of model using consist in special technology optimization in order to check the capital costs of construction and the operation costs low enough in economic range.

The simulation model is especially useful if new technologies of leaching or storage operation are to design or unexpected operational problems are to analyze. When long scale experiences exist for a determined leaching technology, like case of conventional leaching through single well, one can increasingly renounce model usage.

In this paper cases are demonstrated from 15 years simulation by cavern model KASOMO (Kavernen-Sol-Modell).