

SOLUTION MINING RESEARCH INSTITUTE

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**MEETING
PAPER**



**INFLUENCE ON CREEP
OF SHAPE AND ARRAY OF SALT CAVITIES
OF NATURAL GAS STORAGE**

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ABSTRACT

A numerical model, VIPLEF code, has made it possible to study interrelationship between cavity shape and volume reduction, and to outline an "optimum shape" criterion. Correlatively, the influence on creep of array of salt cavities is also investigated.

The importance of a compact leached shape for gas storage cavities is shown and the distance between cavities allows to define precisely the choice of an "optimum shape" in order to minimize volume reduction.

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