

Solution Mining Research Institute; Fall 2003 Technical Meeting
Chester, United Kingdom, October 5 - 8, 2003

**THE SELECTED CASES OF SURVEYING SALT CAVERNS
GEOMETRY IN TURKISH ARABALI FIELD
MADE BY ECHOSONDA-CHEMKOP**

**M. Ali Kirmic - Soda Sanayii, Turkey,
Bartłomiej Rałowicz - CHEMKOP, Krakow, Poland**

Abstract:

A special case of exploitation of two brine caverns of Arabali field is presented. The caverns were solution-mined under strict technological control during several years. In spite of it the hydraulic connection appeared between them.

The results of Echosonda-Chemkop surveys explained, that they are connected by narrow joint caused by tectonic geology of salt deposit. The shape of joint was measured. The echometric surveys were carried out alternately in both wells.

The surveys through joint provided information about the location of pipes and wall fragments in the adjacent caverns. The measured distances from cavern axis to pipes and wall in the adjacent cavern were in accordance with location of wells on the surface.

In the paper the survey results will be presented using graphical views (horizontal and vertical cross sections) as well as 3D pictures of cavern complex.

©2022 – Solution Mining Institute
Full Paper is Available in the SMRI
Library(www.solutionmining.org)