## SOLUTION MINING RESEARCH INSTITUTE

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## **Acquisition of 3-D Seismic Data**

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Presented at the Spring 1996 Meeting Houston, Texas, U.S.A. April 15-16, 1996

## Acquisition of 3-D Seismic Data

## **Introduction**

The acquisition and subsequent use of seismic data, particularly 3-D data, has not been a common practice in the development and utilization of caverns for storage of products or waste. The State of Texas through the Texas Natural Resources Conservation Commission now requires the acquisition of 3-D seismic data as part of the technical data to be submitted with an application to dispose of waste materials in caverns.

Secured Environmental Management, Inc. undertook an acquisition program to obtain 3-D seismic data on two separate tracts of property. The purpose of this program was to provide these data to the TNRCC and to utilize the data to the maximum extent in the final design of the project. The program consisted of one tract of approximately 1100 acres and another tract of approximately 100 acres which was the portion of the project property where the caverns will be located. The results of these two programs were integrated with he results of a reprocessed conventional 2-D line to produce a seismic cross-section in the area of interest. A companion paper describes the processing and interpretation of the data and the interactive techniques used to present the data.

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