

SOLUTION MINING RESEARCH INSTITUTE

New Address:

1745 Chris Ct.
Deerfield, IL 60015-2079 – USA
Phone: 847-374-0490
Fax: 847-374-0491
E-mail: bdiamond@mcs.com

MEETING
PAPER



METHODS FOR DETERMINING
CAVERN AND WELLBORE CONDITION

BY

ROBERT G. MASON

TRANSCONTINENTAL GAS PIPE LINE CORPORATION

2800 POST OAK BOULEVARD

HOUSTON, TEXAS 77251

(713) 439-2699

PRESENTED AT SMRI MEETING

AUSTIN, TEXAS

TUESDAY, APRIL 24, 1990

METHODS FOR DETERMINING CAVERN AND WELLBORE CONDITION

Several methods exist to determine cavern size and wellbore condition, among these are: (1) direct measurement by means of a sonar survey, (2) calculated volume by use of collected data from temperature and pressure logs, (3) by means of visual inspection from video cameras, and (4) electrical and magnetic logs. The sonar device, which measures the time of return of sound waves reflected from the cavern wall, is limited to the inspection of the cavern, although some limited use may be found for inspecting the salt outside the casing. Temperature and pressure data is limited to cavern inspection while video camera surveys and magnetic logs are limited to internal wellbore inspection. Electrical and magnetic logs will not be discussed here.

©2023 – Solution Mining Research Institute
Full Paper is Available in the SMRI
Library(www.solutionmining.org)