

ABSTRACT

"WHEN IS A BARREL NOT A BARREL?"

by:

Marvin M. Miller

Miller and Associates, Consulting Engineers, Inc.

As the Solution Mining and Hydrocarbon Underground Storage industry grows into technical maturity, increasing awareness is developing as to the necessity of accurate and reliable procedures to determine brined-salt quantities, resulting cavern volumes, and the quantity and quality of stored hydrocarbons. Increasing operating costs, lowered overall company profit margins, and the recent ten-fold increase in stored product values now makes it even more essential for operating companies to have dependable and current volumetric information about their facilities.

This measurement reviews the limitations of some of industry's traditional measurement and discusses how they are now being modified to obtain improved results. The applications of "new" techniques and equipment that has been developed in related industries is discussed and evaluated.