REGULAR EVENING MEETING

EXPLORATORY APPLICATIONS OF LOG CALCULATED FORMATIONS PRESSURES AND TEMPERATURES

by Donald J. Timko

Reasonably accurate formation pressures and temperatures can be obtained from well logs. These subsurface pressures and temperatures have an important relationship with the diagenesis of clayey sediments and the distribution types of oil and gas reservoirs. We can use these relationships along with the more conventional techniques to assist us in defining the subsurface environment as to the favorability of finding producible and commercial reservoirs in any geographical area. The application of these concepts should be considered as an additional tool of the explorationist to assist him in finding commercial oil and gas reservoirs that will become more difficult to find with more competition in future years using traditional techniques.

Several field examples and case histories will be shown to illustrate these principles.

BIOGRAPHICAL DATA

Donald J. Timko is presently Formation Evaluation Supervisor in Continental Oil Company's Production Engineering Services, world-wide engineering group. After graduating from the University of Pittsburgh with a BS degree he served two years with the USAF. Following his service tour he returned to the University of Pittsburgh and obtained an MS degree in geology. Upon graduation he was employed by Continental and worked for five years in well logging research in Ponca City, Oklahoma, before being transferred to Houston as a reservoir engineer. He was promoted to his present position five years ago. He is a member of SPE of AIME and a charter member of SPWLA. He served as a director of SPWLA for seven years, which included the office of president in 1967-68.