

sound amplifying system to make announcements and to introduce speakers without unnecessary loss of time and detraction from the scientific subject matter. The chest microphone was demonstrated as a distinct aid. Such devices, well planned by the technical program committee, provide the speaker with more time and ease in presenting his subject and more satisfaction for the listeners.

The technical session opened at 9:30 A.M., September 29, in the Crystal Ballroom of the Hotel Cortez. General chairman Haigh presided and M. A. Harlan, mayor of El Paso, welcomed the convention. H. A. Hemphill responded in behalf of the West Texas Geological Society and Donald C. Barton responded in behalf of the Association. It is planned to publish the papers as a New Mexico-West Texas Permian Basin symposium in the Association *Bulletin* as soon as the manuscripts are completed.

1. ED W. OWEN, geologist, L. H. Wentz Oil Division, San Antonio: Summary of Regional Geology and Oil Development of the West Texas Permian Basin.

2. JAMES FITZGERALD, JR., division manager, lands and leases, Skelly Oil Company, Midland, presenting the following two cross sections.

2a. W. C. FRITZ, geologist, Skelly Oil Company, Midland: South-North Cross Section from Pecos County through Ector County, Texas, to Roosevelt County, New Mexico (abstract).

The section extending from Shell-Kirby University No. 1 in central Pecos County, Texas, to Franklin Gephart No. 1 in northern Roosevelt County, New Mexico, is carried generally along the eastern part of the Central Basin platform. It traverses most of the upper Castile basin of deposition and shows its northern limit. Through Crane, Ector and Andrews counties, the cross section is along the strike of the beds of the Whitehorse formation. It shows the progressively increasing depth of the porous and producing zones from the Whitehorse formation into the San Andres formation, although the only oil wells shown on the section are producing from the San Andres or older formations. Some idea of the magnitude of the unconformity at the base of the Permian is indicated in the first ten wells in the section. The suspected relationship of the Glorieta (base of San Andres) with the undifferentiated Permian of the southern part of the Central Basin platform is also shown.

2b. E. HAZEN WOODS, geologist, Sinclair Prairie Oil Company, Midland: South-North Cross Section from Pecos County through Winkler County, Texas, to Roosevelt County, New Mexico.

The section extends from Shell-Kirby University No. 1 in Pecos County to Sloan & Smith Lovern No. 1 in Roosevelt County, New Mexico. The first eighteen wells along the western part of the Central Basin platform show the generally accepted interpretation of reef production in the Whitehorse formation of Ward and Winkler counties, Texas, and southeastern Lea County, New Mexico. The section shows also the reef and the lagoonal facies of the Whitehorse and attendant production. North of the Vacuum pool of Lea County, the transition from predominantly dolomitic deposition to the broken anhydrite, salt and sand facies of the Whitehorse and San Andres formations in Roosevelt County, New Mexico, is shown.

3. ROBERT I. DICKEY, geologist, Stanolind Oil and Gas Company, Mid-