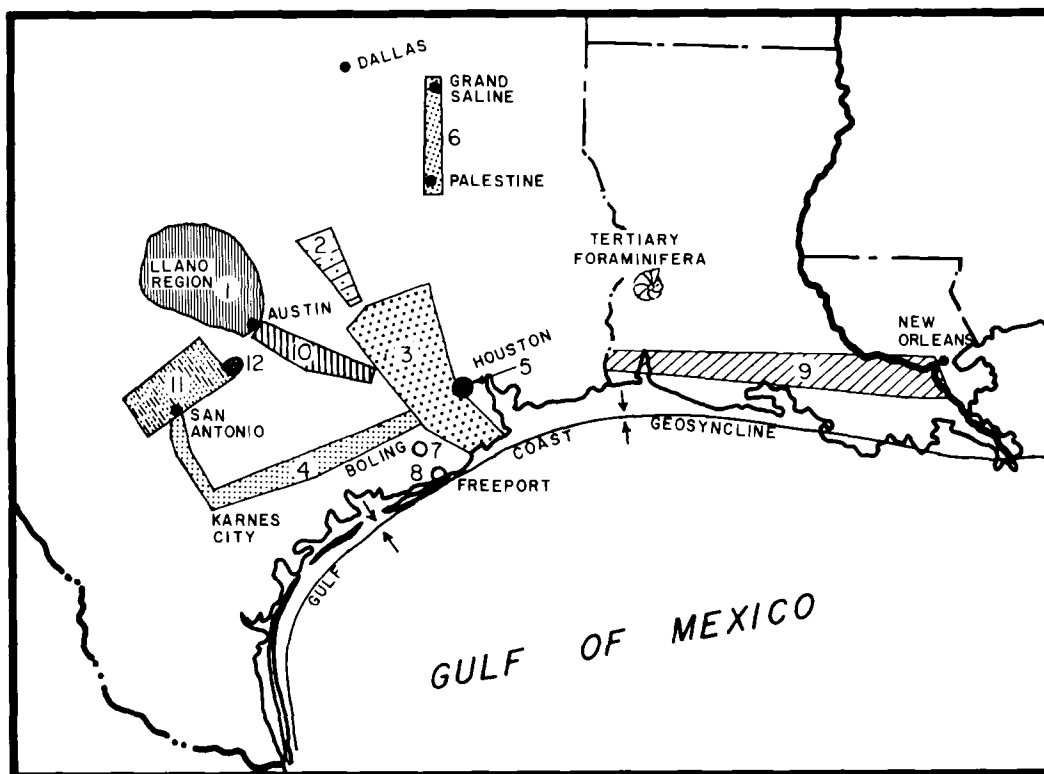


GEOLOGY OF THE GULF COAST AND CENTRAL TEXAS AND GUIDEBOOK OF EXCURSIONS



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E. H. RAINWATER and R. P. ZINGULA

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FOREWORD

E. H. Rainwater

The reports in this volume, on the geology of Coastal Texas and Louisiana, the Llano region and the eastern edge of the Edwards Plateau in Central Texas, have been written by outstanding geologists and the data and ideas presented are the latest and best on these regions of classic geology. The book is designed to provide background material and guides to the geologists attending the 1962 field trips, and it is also expected that the several reports will be valuable references for all geologists interested in the Gulf Coast and Central Texas.

The Precambrian, Paleozoic and Cretaceous rocks of the Llano region in Central Texas are described and the geological history of this very important region is outlined. The hydrogeology of the Cretaceous rocks of the San Antonio area is ably discussed; and the engineering geology of these same strata at the Canyon dam on the Guadalupe River is described. The Tertiary in several areas of the Texas coastal plain is reported on, and the Pleistocene and Recent sediments of coastal Texas and Louisiana are described in detail.

The geology of the uranium deposits in the Texas coastal plain Tertiary is presented; and the complex structure associated with two salt domes in eastern Texas is described.

The depositional history and structural configuration of the Gulf Coast Geosyncline are described and the story is told of how Foraminifera have been so important in unravelling the complex stratigraphy of the Gulf Coast Tertiary and in exploring for and developing the fabulous oil and gas resources in the Tertiary of this region.

The book is far more than a guide to the field excursions. We are indebted to the authors and the field trip leaders for sharing their knowledge with others. Thanks are also due Mrs. Martha L. Shirley for assistance in editing this book.

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