

PREFACE

This guidebook presents information on selected sandstone units in the Springer Formation (which straddles the Mississippian–Pennsylvanian boundary) and in the lower Golf Course Formation (Pennsylvanian) in the Ardmore basin of south-central Oklahoma. The guidebook is divided into two parts: Part I, general geology of the field-trip area; and Part II, descriptions of six field-trip stops near the City of Ardmore, Oklahoma. Some of the information presented is new and some is updated. The focus of the field trip is on viewing outcrops of rocks that, in the subsurface, are hydrocarbon reservoirs. At four of the stops, surface gamma-ray profiles of the outcrops have been made by the authors; they are compared with subsurface log signatures and samples. In addition, descriptions of cuttings from two wells drilled on the Caddo anticline are included as lithologic logs in appendixes; the cuttings are from stratigraphic intervals that are the focus of the field trip. Interpretations of depositional environments are emphasized in Part II. It is our hope that this guidebook will help its readers better understand how important correct interpretation of depositional environments and facies is to successfully predicting the potential of a reservoir rock.

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