

PREVIEWS

Overview	<i>This paper introduces the regional geologic setting for the northern deep-water Gulf of Mexico and discusses the role that technology has played in developing the area's resources. Exploration has focused on four major geologic provinces: basins, subsalt, foldbelt, and abyssal plain.</i>	941
Catalog of northern deep-water GOM	<i>The purpose of this atlas is to help readers use these fields and their settings as possible analogs for other areas of the world, and integrate the regional geology, described in the following papers, to the fields themselves.</i>	995
Complexity of regional structural system	<i>The 108 allochthonous salt bodies of the study area comprise four systems: basement-controlled, counterregional (simple or stepped), roho, and fold belt-related. A detailed study of the Neogene allochthonous salt systems is used to build conceptual kinematic models.</i>	1003
Structural framework and evolution	<i>This paper examines the structural evolution of the study area in the northern deep-water Gulf of Mexico. Basement structures were the primary control on early salt kinematics, affecting gravity-driven slope deformation and resulting in a wide variety of structural styles.</i>	1035
Neogene suprasalt basins	<i>Fifty-two fields and discoveries have combined structural/stratigraphic traps, 19 have structural traps, and 17 are stratigraphic traps. Troughs, bowls, wedges, and sheets are integrated with the results of the structural study to understand the changing shape of suprasalt basins during the Neogene.</i>	1073
Summary of the stratigraphic evolution	<i>This paper addresses the general stratigraphic evolution of the Lower Cretaceous through upper Miocene sediments based on isochron maps, seismic facies analysis, and wireline log expressions with biostratigraphically calibrated horizons.</i>	1109
A linked structural evolution	<i>These two minibasins include several structural features that influenced their geologic evolution: basement faults, autochthonous salt, three allochthonous salt systems, a growth fault and raft system, three major turtle structures with associated extensive crestal faults, and strike-slip faults.</i>	1145
Why one produces gas and the other oil	<i>The Lower Cretaceous source interval, comprising type II kerogen, matured significantly earlier in the Mensa basin. Today, the source rocks below Mensa are in the dry gas window, whereas the source rocks underlying Thunder Horse are in the wet gas generation window.</i>	1173

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