UNIVERSITIE OF HIAH RESEARCH INSTITUTE EARTH SCIENCE LAB. Association Round Table

the approximately 80 recent wells in

prizients el Florida basement structure. Cretaceous, and Tertiary sedimentathe eroded surface of a basethe stath ranges from Precambrian to Juras-La determined by previous workers, the main mane underlying Florida is the Peninsular a surge Precambrian block covered by Parocks. A similar, smaller crustal Jackson County, occupies the Florida is with blocks. Ordovician to Devonian active a deeply truncated Precambrian and was affected by Cambrian igneous in-Provoic rocks were subjected to Late Paand with some volcanic activity followed by intrasted ulting, block faulting, and postintrusion during the Triassic Period.

the presented here clarify the succession and are some of some of the volcanic and hypabyssal that Jurassic basalt flows covered the such below the 28°N parallel.

the Florida part of the Florida-Bahama platthese represents crust which was continental manerozoic time.

the data from Florida do not support the manable hypotheses about the history of the platform and the Gulf of Mexico reand new geologic data are consistent anable attempts to reconstruct the history of as Menco region by rifting during the opening Atlantic Ocean basin. This agreement is man endence for the operation of plate tecmanuscription than direct, conclusive proof. free-lavors the hypothesis outlined by Free-Deu (1972). The circumstantial nature of eviis the former activity of plate tectonic mecha-Food need not hinder the application of new memory to petroleum exploration in Mesozoic 🖬 Flotida-Bahama region and the outer contiand of the Atlantic Coast.

. C. A., America Southwest Corp., Jackson,

Frid. Jasper County, Mississippi—Unique Ju-

ted is significant because it is unique from the southeastern United States. the cone is a Haynesville-Buckner sandtractly overlying the Jurassic Haynesville-Bucksecate evaporite sequence.

so eral years prior to the discovery.

reductive sandstone appears to be an offshore sparated the Jurassic carbonate-evaporite sea scarshore area of sand accumulation. Directly is the productive sandstone interval is a thin imbasestone, representing a slight transgressive in the Haynesville-Buckner carbonate sea. It is income which forms the seal for the reservoir and a a unique oil accumulation.

the field is still relatively young, it appears

pear to be the type that would warrant a strong exploration effort in a rank wildcat area.

GL03377

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Depositional Framework of Frio Formation (Oligocene)—Lower and Middle Texas Gulf Coast

The Frio Formation is one of several basinwardthickening wedges of sand and shale in the subsurface of the Texas Gulf Coast; the Frio is less than 500 ft thick updip and more than 10,000 ft thick downdip near the coast. The basinward thickening is the result of slow regional subsidence and of more rapid local movement along major growth faults. The objectives of this paper are to illustrate the regional sand-shale facies distribution and relation and present preliminary data needed to evaluate the geopressure-geothermal resources of the Frio Formation along the lower and middle Texas Gulf Coast.

On the basis of foraminifer zonation, major depositional patterns, and structure, the Frio is subdivided on regional dip and strike cross sections into six subunits. From these cross sections and sand percent and net sand maps three main depositional patterns are recognized. (1) The updip part of each unit consists of thin linear dip-oriented sand bodies separated by thick shales and local lignites, representing channel and overbank facies of a fluvial system. (2) In the southern part of the study area and downdip of the fluvial system, thick sand bodies broadly oriented in a dip direction are separated by thick shales. These sand bodies were deposited in a high-destructive wave-dominated delta system. (3) North of the delta system, thick strike-oriented sand bodies accumulated in an extensive strand-plain system.

Contemporaneous faulting, which resulted from sediment loading, allowed vertical stacking of thick sand bodies in the Frio and reduced basinward progradation throughout much of the lower and middle Texas Gulf Coast.

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Chunchula Field-Giant in the Making?

Chunchula field, one of Alabama's most significant discoveries, is located approximately 20 mi north of Mobile. The field was discovered in December 1973, with the successful completion and testing of the Union Oil of California International Paper Company 22-13 1 (Oil and Gas Board Permit 1886). Union's International Paper Company 21-11 1 (Permit 1973), a western offset to the discovery, was completed as the confirmation well. Additional wells successfully have extended the field northwest and west. Chunchula presently has four producible wells, one dry hole and several other wells in different stages of development.

Production of sweet gas and low-sulfur, high gravity condensate is from Smackover dolomites at depths ranging from 18,400 to 18,510 ft. Seventy-seven ft of total pay is estimated in the discovery well. Chunchula field is located on a large structure with approximately 300 ft of closure.

