A

Sinclair Oil and Gas H. R. Williams 1 sec. 24, T. 59 S., R. 40 E. Monroe County, Fla. Alt 20 ft

Humble Oil and Refining Tucson 1 sec. 35, T. 43 S., R. 40 E. Palm Beach County, Fla. Alt 34 ft

Humble Oil and Refining Carroll 1 sec. 10, T. 27 S., R. 34 E. Osceola County, Fla. Alt 62 ft

Sun Oil Powell Land 1 sec. 11, T. 17 S., R. 31 E. Volusia County, Fla. Alt 48 ft

Humble Oil and Refining Foremost Properties 1 sec. 4, T. 6 S., R. 25 E. Clay County, Fla. Alt 115 ft

California Oil Bule 1 4.5 miles northwest of Tarboro Camden County, Ga. Alt 65 ft

E. B. Lanus Jelks and Rodgers 1 6 miles southeast of Riceboro Liberty County, Ga. Alt 26 ft

U.S. Government Water well 2 Parris Island Marine Base Beaufort County, S.C. Alt 18 ft

U.S. Army Water well 1 Fort Caswell Brunswick County, N. C. Alt 11 ft

F. L. Karston Laughton 1 Morehead City Carteret County, N. C. Alt 17 ft

Coastal Plains Oil Baylands 1 2.5 miles north of Atlantic Carteret County, N. C. Alt 10 ft (estimated)

Standard Oil of New Jersey Hatteras Light 1 Cape Hatteras Dare County, N. C. Alt 24 ft

Standard Oil of New Jersey North Carolina Esso 2 Pamlico Sound Dare County, N. C. Alt 21 ft

Standard Oil of New Jersey Maryland Esso 1 4.5 miles North of Ocean City Worcester County, Md. Alt 13 ft

Anchor Gas Dickinson 1 Cape May Point Cape May County, N. J. Alt 22 ft

U.S. Geological Survey Island Beach 1 lat 39°47' N., long 74°06' W. Ocean County, N. J. Alt 13 ft

Columbia University (Bellport Coast Guard Station) lat 40°43' N., long 72°56' W. Suffolk County, N. Y. Alt 5 ft

B

SYSTEM | SERIES | GULF COAST SERIES | SOUTHEASTERN AND ATLANTIC COASTAL PLAIN SERIES

TERTIARY AND QUATERNARY — Miocene — Post-Miocene rocks
Eocene — Rocks of Miocene, Oligocene, and Eocene ages
Paleocene — Rocks of Paleocene age
CRETACEOUS — Upper — Rocks of Gulf age
Rocks of Woodbine age
Lower — Rocks of Fredericksburg age
Rocks of Trinity age
JURASSIC OR CRETACEOUS — Upper Jurassic or Lower Cretaceous (Undifferentiated)

Distances: 95.6 miles; 104.0 miles; 62.9 miles; 77.1 miles; 72.1 miles; 52.5 miles; 61.0 miles; 188.8 miles; 93.9 miles; 22.5 miles; 54.5 miles; 35.5 miles; 185.9 miles; 38.5 miles; 74.0 miles; 89.6 miles

FLORIDA | GEORGIA | GEORGIA | SOUTH CAROLINA | SOUTH CAROLINA | NORTH CAROLINA | NORTH CAROLINA | VIRGINIA | MARYLAND | DELAWARE | NEW JERSEY | NEW JERSEY | NEW YORK

SEA LEVEL

Post-Miocene rocks
Miocene rocks
Oligocene
Eocene rocks
Paleocene and Eocene rocks undifferentiated
Middle and upper Miocene rocks undifferentiated
Lower Miocene rocks
Rocks of uncertain age, possibly Oligocene in part
Middle and upper Eocene rocks
Lower Eocene rocks
Paleocene rocks
Beaufort Formation
Peedee Formation
Monmouth Formation
Matawan Formation
Rocks of Navarro age
Rocks of Taylor age
Rocks of Austin age
Rocks of Woodbine and Eagle Ford age
Pre-Mesozoic rocks
Rocks of Austin age
Black Creek Formation
Rocks of Eagle Ford age
Tuscaloosa Formation
Rocks of Woodbine age
Rocks of Washita age
Rocks of Fredericksburg age
Rocks of Trinity or Fredericksburg age
Rocks of Trinity(?) age
Rocks of Trinity(?) age and older
Mesozoic rocks of uncertain age, possibly Neocomian
Rocks of Jackson age (lower Eocene)
Rocks of Wilcox age
Rocks of Claiborne age (Middle Eocene)
Rocks of Wilcox age (Lower Eocene)
Rocks of Navarro age
Rocks of Taylor age
Rocks of Austin age
Rocks of Woodbine and Eagle Ford age
Pre-Mesozoic rocks
Rocks of Austin age
Rocks of Eagle Ford age
Rocks of Woodbine age
Rocks of Washita age
Rocks of Fredericksburg age
Rocks of Trinity age
Rocks of Trinity or Fredericksburg age
Rocks of Trinity(?) age
Rocks of Trinity(?) age and older
Rocks of Fredericksburg(?) and Washita(?) ages undifferentiated
Lithologically similar to rocks of Trinity age (Perry, 1957)
Rocks of Trinity(?) age and older
Tertiary rocks undifferentiated
Matawan Group
Monmouth Group
Magothy Formation and Raritan Group undifferentiated
Raritan Formation
Lower Cretaceous rocks
Rocks of Navarro age
Rocks of Woodbine and Eagle Ford ages undifferentiated
Rocks of Austin age (Taylor age)
Upper Cretaceous rocks
Lower Cretaceous rocks
Pre-Mesozoic rocks

Limestone
Chalk
Dolomite
Dolomite and limestone
Anhydrite
Gypsum
Salt
Shale
Sandstone
Limestone
Conglomerate
Igneous rocks
Metamorphic rocks

Avon Park Limestone
Lake City Limestone
Oldsmar Limestone
Cedar Keys Limestone
Rocks of Navarro age
Rocks of Taylor age
Rocks of Austin age
Rocks of Woodbine and Eagle Ford age
Rocks of Washita age
Rocks of Fredericksburg age
Rocks of Trinity age
Rocks of Trinity or Fredericksburg age
Rocks of Trinity(?) age
Rocks of Trinity(?) age and older
Pre-Mesozoic rocks
Stonelaof Limestone

Miocene rocks
Oligocene
Lisbon and Tallahatta Formations undifferentiated
Clayton Formation
Rocks of Navarro age
Rocks of Taylor age
Rocks of Austin age
Rocks of Woodbine and Eagle Ford age
Pre-Mesozoic rocks
Tuscaloosa Formation
Lower Cretaceous rocks
Pre-Mesozoic rocks

Eocene rocks
Paleocene and Eocene rocks undifferentiated
Rocks of Navarro age
Rocks of Taylor age
Rocks of Austin age
Rocks of Woodbine and Eagle Ford age
Pre-Mesozoic rocks

Middle and upper Miocene rocks undifferentiated
Lower Miocene rocks
Rocks of uncertain age, possibly Oligocene in part
Eocene rocks
Paleocene rocks
Beaufort Formation
Peedee Formation
Rocks of Austin age
Black Creek Formation
Rocks of Eagle Ford age
Tuscaloosa Formation
Rocks of Woodbine age
Rocks of Washita age
Rocks of Fredericksburg age
Rocks of Trinity or Fredericksburg age
Rocks of Trinity(?) age
Rocks of Trinity(?) age and older
Mesozoic rocks of uncertain age, possibly Neocomian

Miocene rocks undifferentiated
Eocene and Miocene rocks undifferentiated
Paleocene rocks
Monmouth Group
Matawan Group
Rocks of Austin age (Taylor age)
Upper Cretaceous rocks
Lower Cretaceous rocks
Pre-Mesozoic rocks

Tertiary rocks undifferentiated
Monmouth Group
Magothy Formation and Matawan Group undifferentiated
Raritan Formation
Lower Cretaceous rocks
Rocks of Navarro age
Rocks of Woodbine and Eagle Ford ages undifferentiated
Rocks of Austin age (Taylor age)
Upper Cretaceous rocks
Lower Cretaceous rocks
Pre-Mesozoic rocks

T. D. 11,968 ft
T. D. 13,375 ft
T. D. 8049 ft in biotite granite
T. D. 5958 ft in hornblende diorite
T. D. 5862 ft in Paleozoic rocks
T. D. 4955 ft in volcanic ash and rhyolitic tuff
T. D. 4264 ft in rhyolite porphyry
T. D. 3450 ft
T. D. 1543 ft in metamorphosed rocks
T. D. 4044 ft in granite
T. D. 9607 ft
T. D. 6410 ft
T. D. 10,054 ft in granitic rock
T. D. 7710 ft
T. D. 6408 ft in gneiss
T. D. 3891 ft in gneiss
T. D. 1956 ft in granite

Alabama Formation
Tuscahoma Formation
Hatchetigbee Formation
Bashi Marl Member
Tallahatta Formation
Lisbon Formation
Oldsmar Limestone
Cedar Keys Limestone
Paynes Hammock Sand
Avon Park Limestone
Lake City Limestone
Ocala Limestone
Suwannee Limestone
Tampa Limestone
Hawthorn Formation
Tamiami Formation
Peedee Formation
Black Creek Formation
Middendorf Formation
Cape Fear Formation
Pee Dee Formation
Black Creek Formation
Middendorf Formation
Cape Fear Formation
Unconformity
Basement complex

SOUTHEAST GEORGIA EMBAYMENT
PENINSULAR ARCH
CAPE FEAR ARCH
SALISBURY EMBAYMENT

Correlations modified from Anderson (1948), Applin and Applin (1944, 1947), Brown (1958), Herrick (1961), Peck (1957), Perlmutter and Todd (1965), Richards (1945), Seaber and Vecchioli (1963), Southeastern Geological Society (1949), Spangler (1950), and Swain (1947, 1951). E. R. Applin and P. L. Applin made unpublished data on wells in Florida available and provided paleontologic data for well 14 in North Carolina and well 25 in New Jersey

20 0 20 40 60 MILES
VERTICAL EXAGGERATION 211:1

EXPLANATION

Lithologic log
Shale
Limy shale
Sandstone
Conglomeratic sandstone
Limy sandstone

Electric log
Self potential curve
Resistivity curve
(Millivolt and ohm scales omitted)

INDEX MAP OF ATLANTIC COASTAL PLAIN AND CONTINENTAL SHELF SHOWING LINE OF SECTION *A-B*

NEW YORK
PENNSYLVANIA
MASSACHUSETTS
CONN.
New York
MARYLAND
DELAWARE
NEW JERSEY
VIRGINIA
NORTH CAROLINA
PIEDMONT
SOUTH CAROLINA
COASTAL PLAIN
FALL LINE
ALABAMA
GEORGIA
FLORIDA
CONTINENTAL SHELF
ATLANTIC OCEAN
GULF OF MEXICO
Miami
BAHAMA ISLANDS
0 100 200 300 MILES

GEOLOGIC SECTION *A-B*, FROM FLORIDA KEYS TO LONG ISLAND, SHOWING MESOZOIC AND CENOZOIC ROCKS