Hydrogeologic Framework of the Floridan Aquifer System in Florida and in Parts of Georgia, Alabama, and South Carolina

By JAMES A. MILLER

REGIONAL AQUIFER-SYSTEM ANALYSIS

U.S. GEOLOGICAL SURVEY PROFESSIONAL PAPER 1403–B

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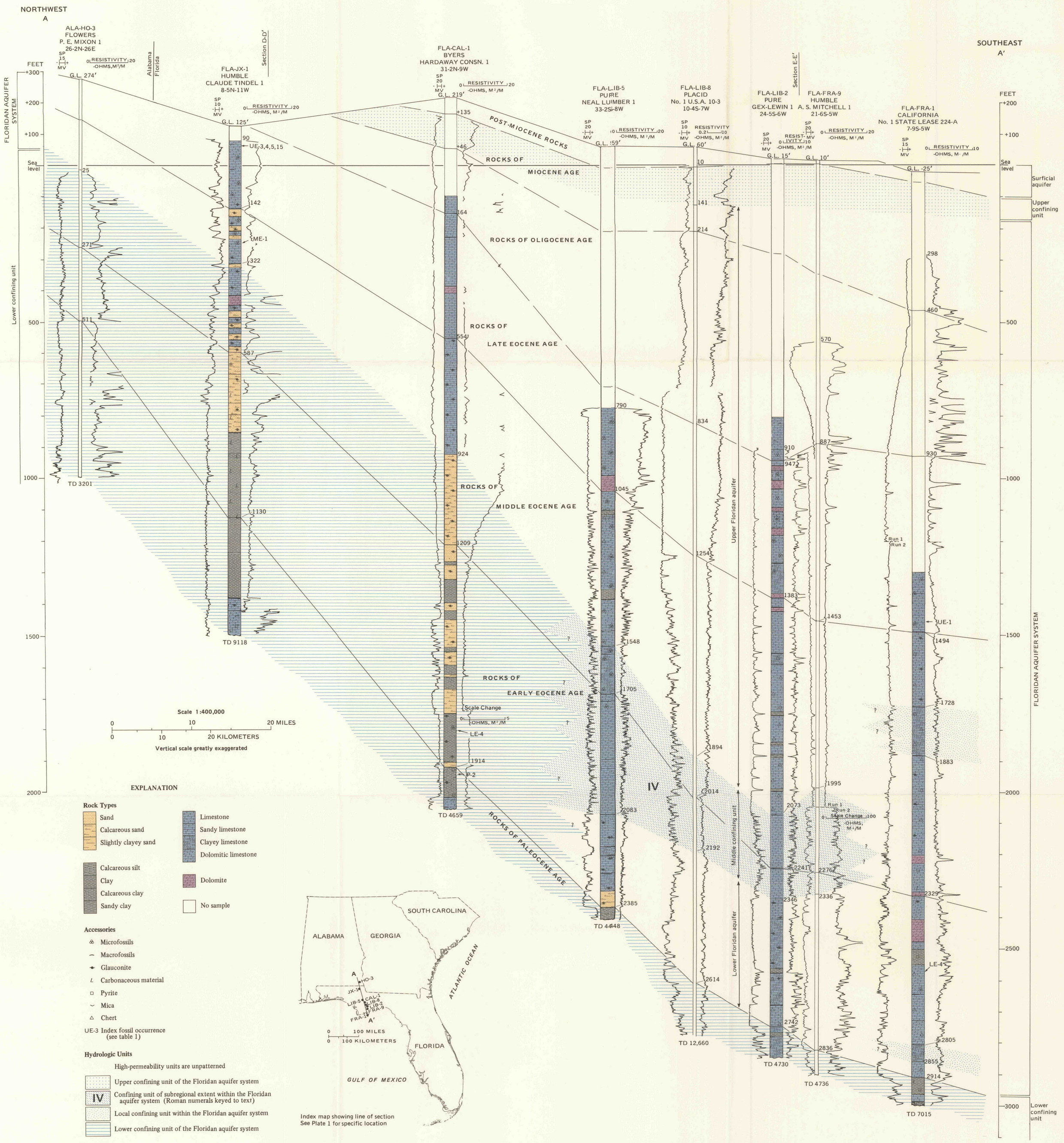

Geohydrologic cross-section A-A′ from P. E. Mixon well 1, Houston County, Alabama, to State Lease 224-A well 1, Franklin County, Florida

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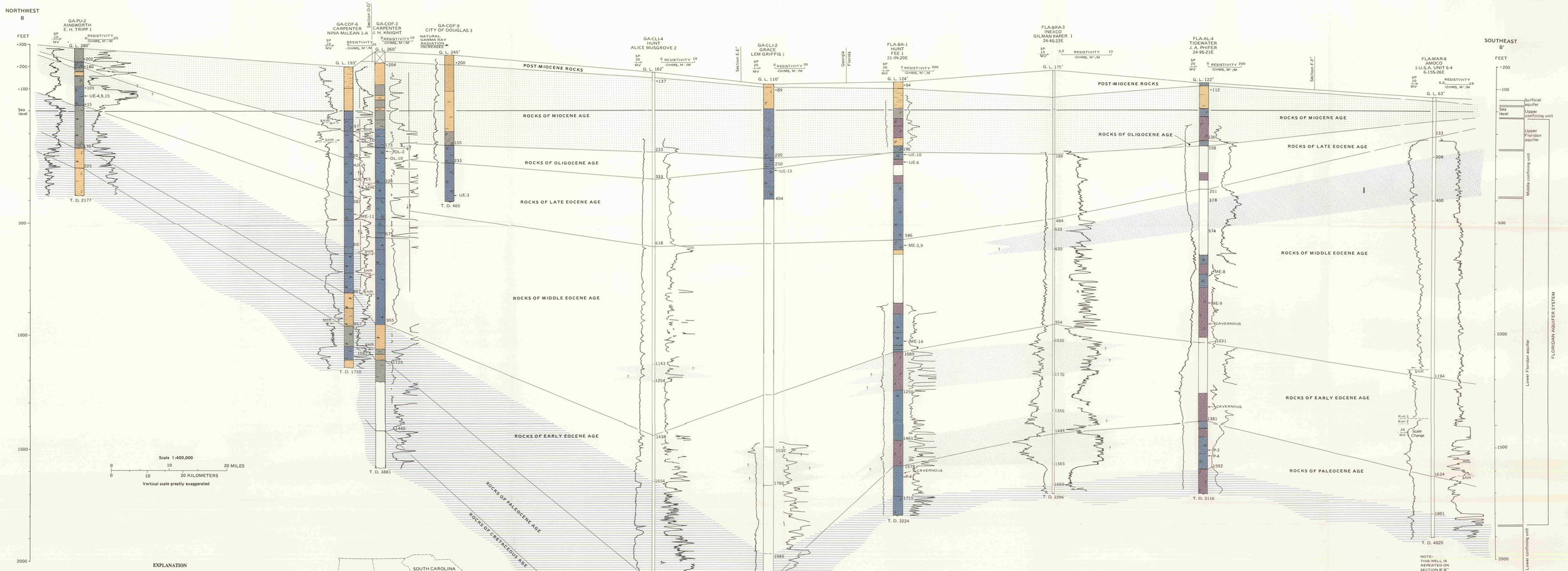

Geohydrologic cross-section B-B′ from E. H. Tripp well 1, Pulaski County, Georgia, to U. S. A. Unit 6-4 well 1, Marion County, Florida

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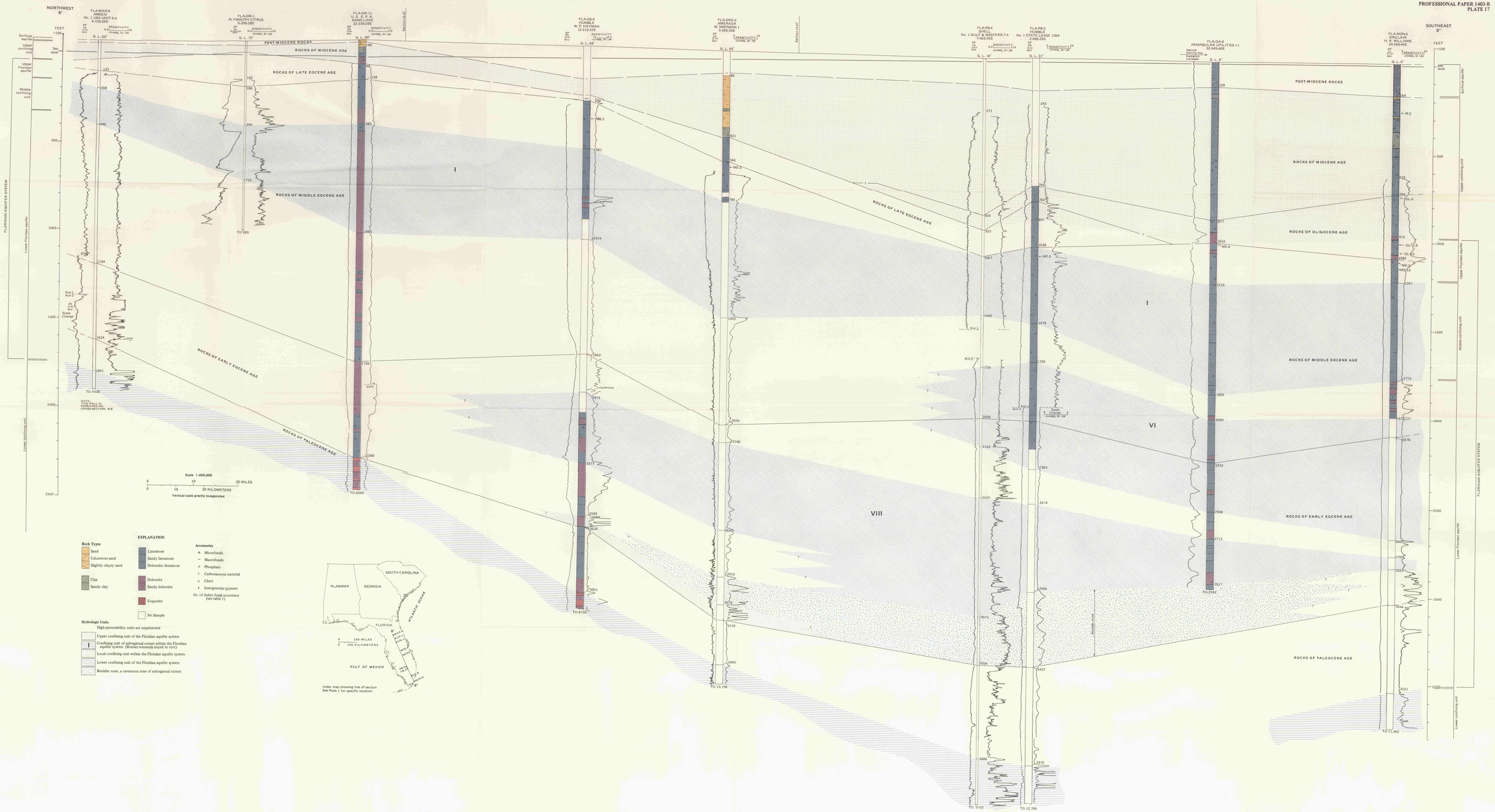

Geohydrologic cross-section B'-B'' from U. S. A. Unit 6-4 well 1, Marion County, Florida, to H. R. Williams well 1, Monroe County, Florida.

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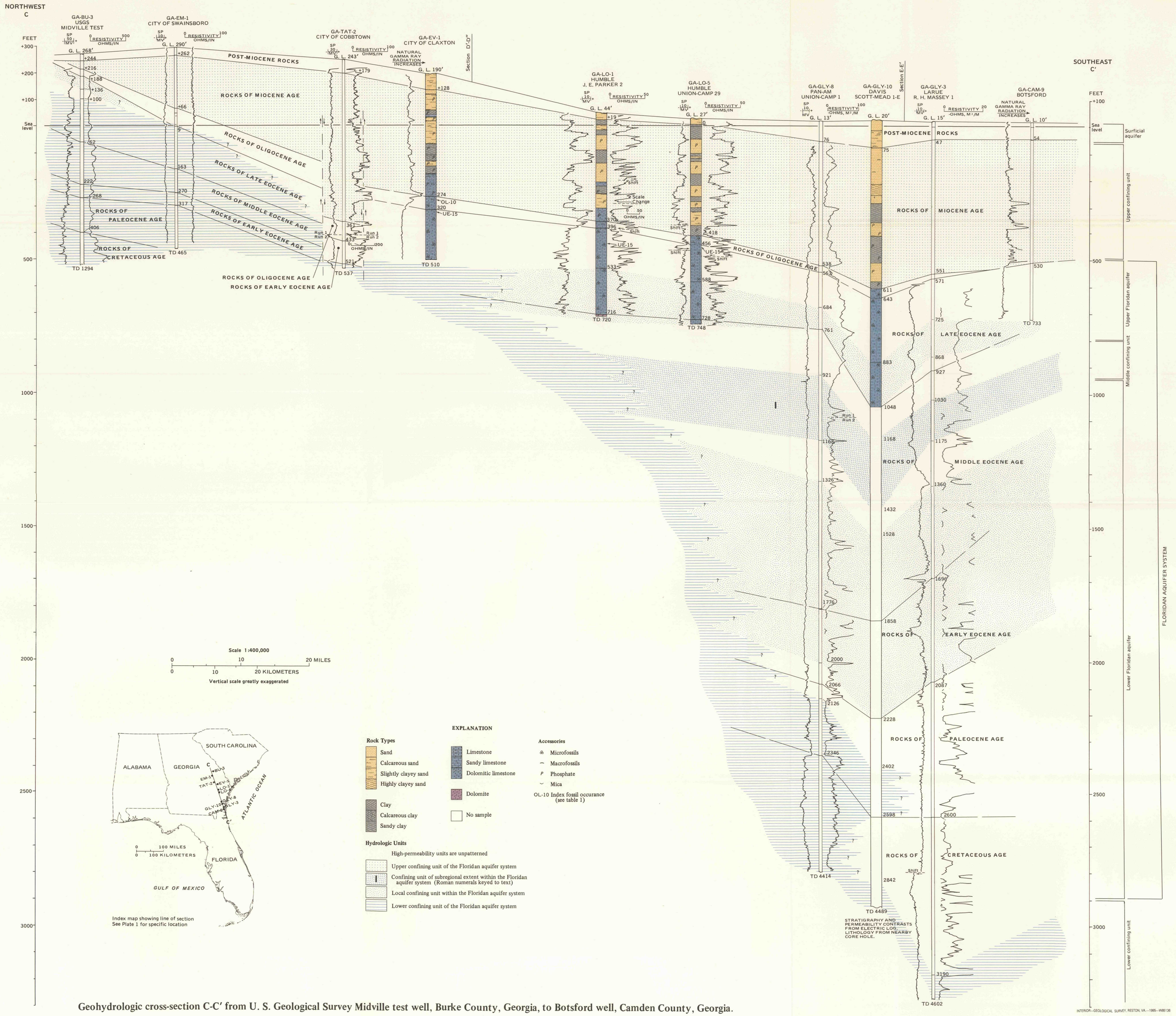

Geohydrologic cross-section C-C′ from U. S. Geological Survey Midville test well, Burke County, Georgia, to Botsford well, Camden County, Georgia.

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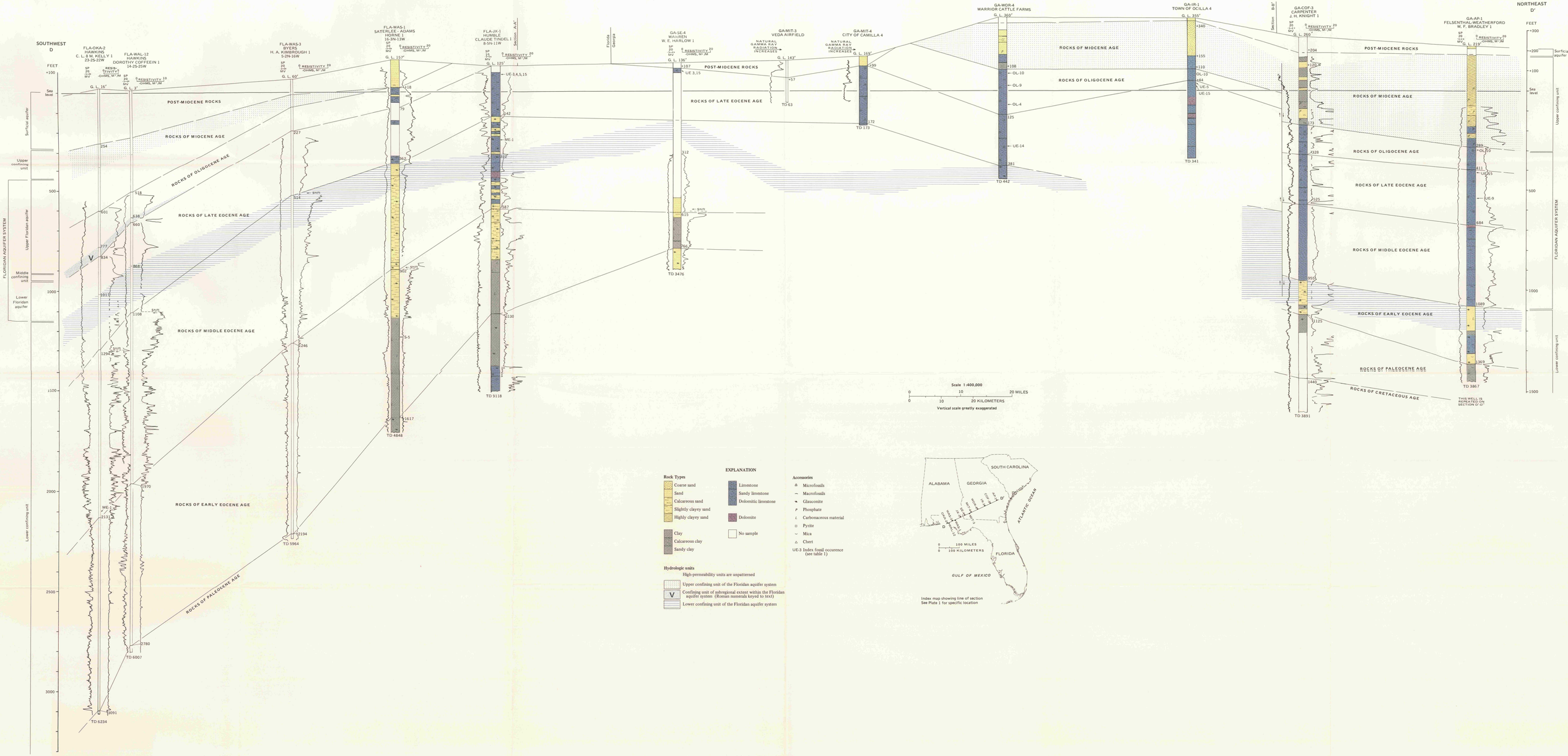

Geohydrologic cross-section D-D′ from C. L. and M. Kelly well 1, Okaloosa County, Florida, to W. E. Bradley well 1, Appling County, Georgia.

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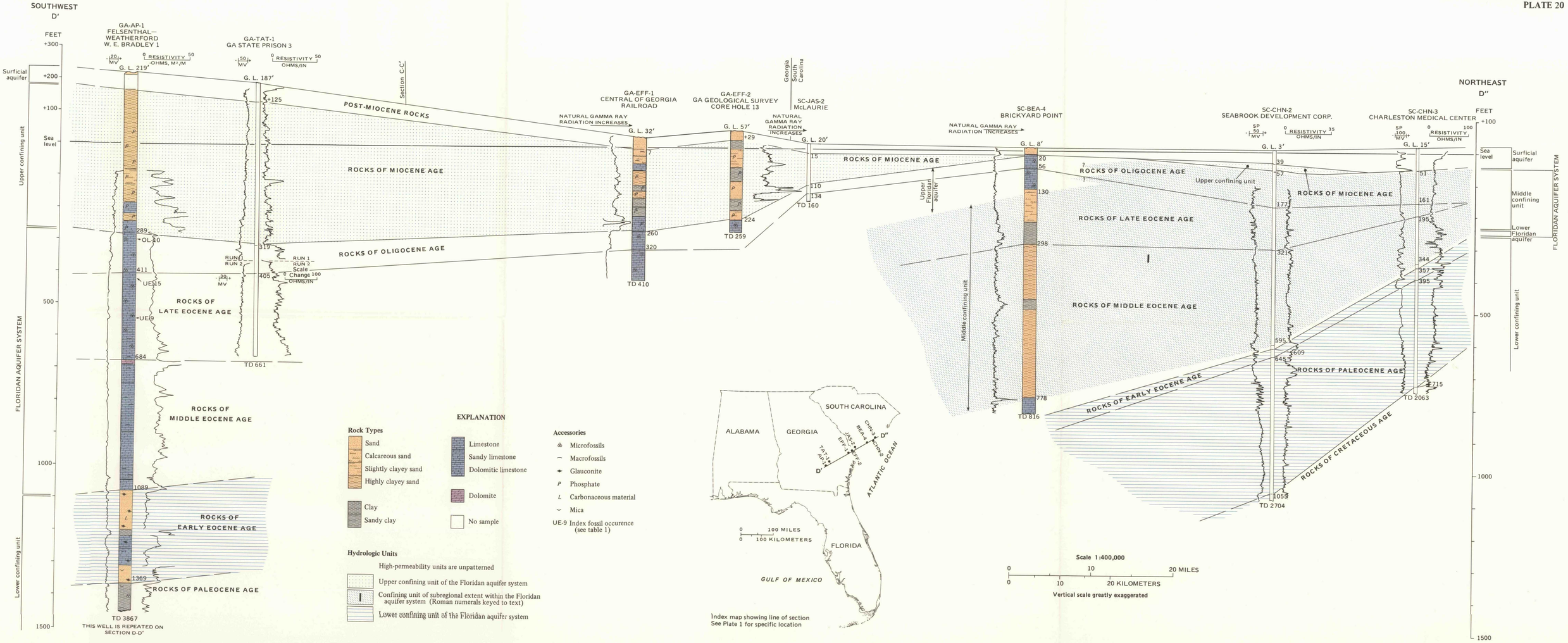

Geohydrologic cross-section D′-D″ from W. E. Bradley well 1, Appling County, Georgia, to Charleston Medical Center well, Charleston County, South Carolina.

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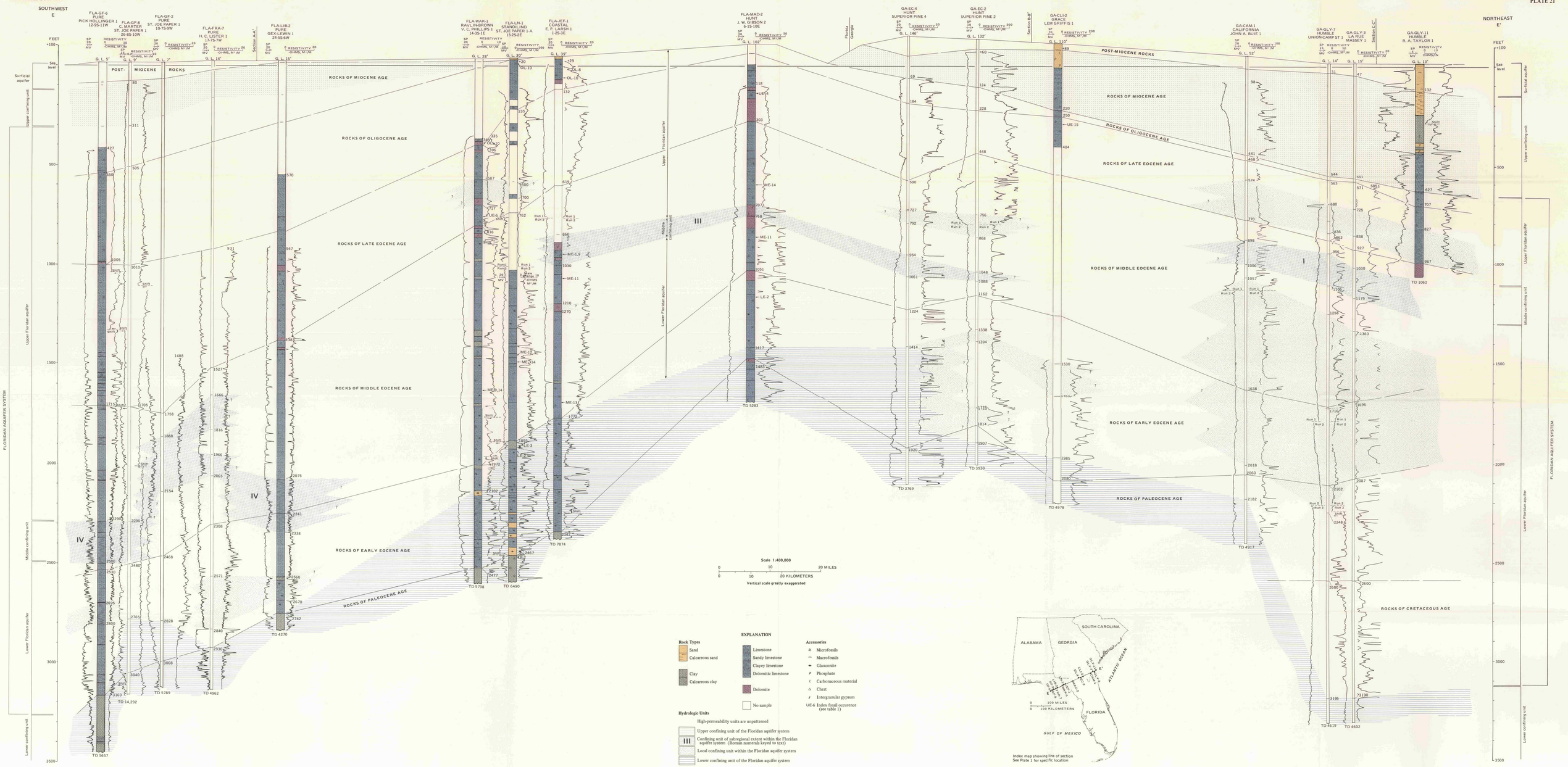

Geohydrologic cross-section E-E′ from Pick Hollinger well 1, Gulf County, Florida, to R. A. Taylor, Sr., well 1, Glynn County, Georgia.

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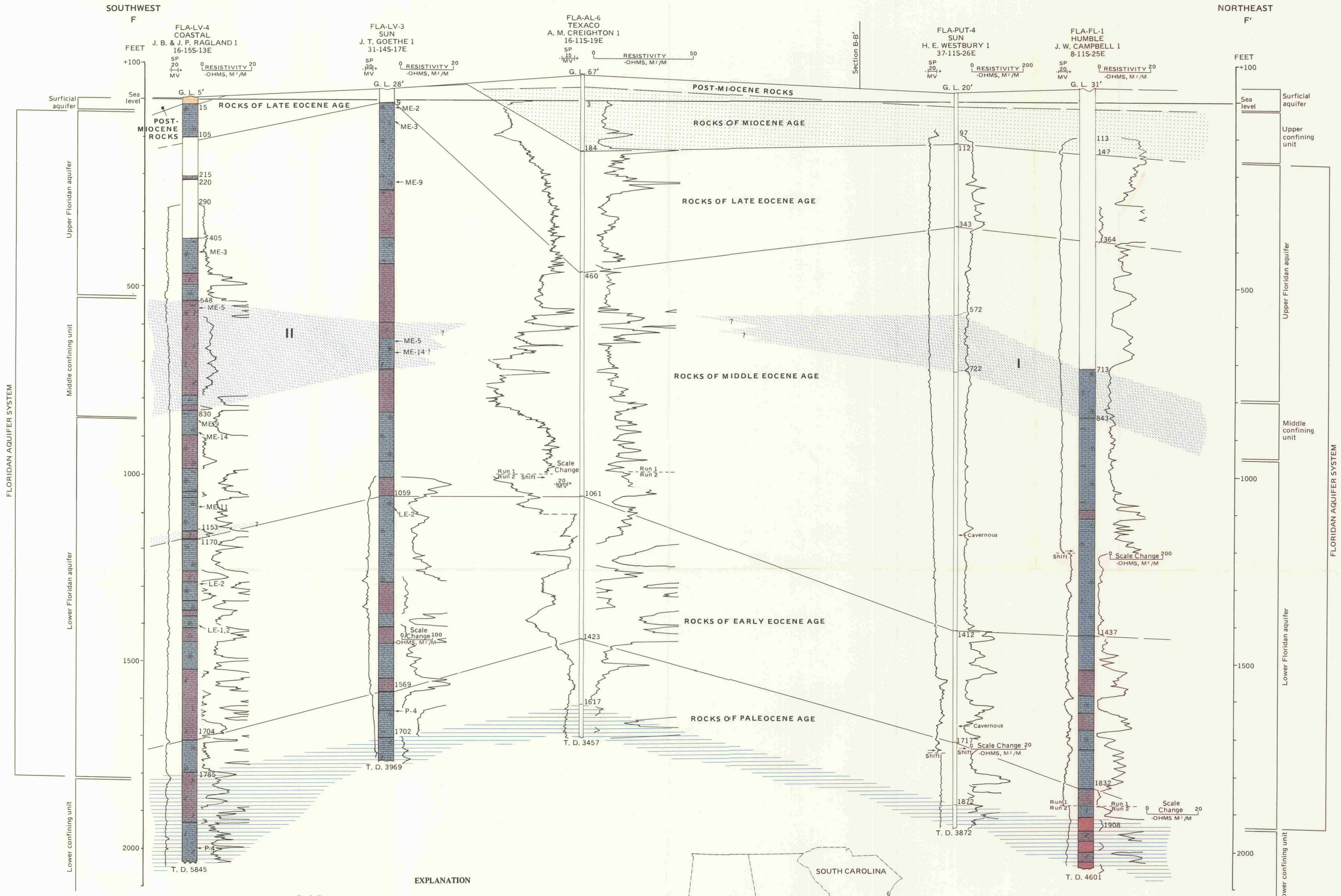


EXPLANATION

Rock Types

- Sand
- Limestone
- Dolomitic limestone
- Dolomite
- Evaporite
- No Sample

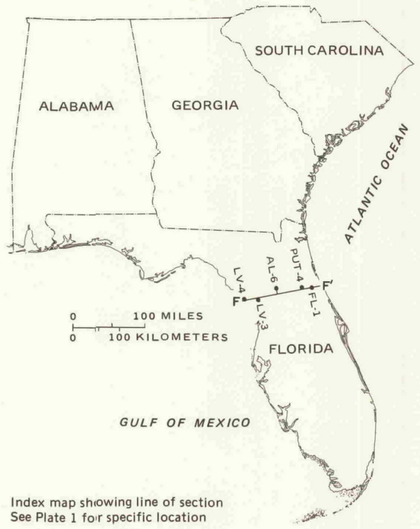
Accessories

- Microfossils
- Macrofossils
- Carbonaceous material
- Pyrite
- Chert
- Intergranular gypsum
- ME-9 Index fossil occurence (see table 1)

Hydrologic Units

High-permeability units are unpatterned

- Upper confining unit of the Floridan aquifer system
- II Confining unit of subregional extent within the Floridan aquifer system (Roman numerals keyed to text)
- Local confining unit within the Floridan aquifer system
- Lower confining unit of the Floridan aquifer system



Index map showing line of section
See Plate 1 for specific location

Scale 1:400,000

0 10 20 MILES

0 10 20 KILOMETERS

Vertical scale greatly exaggerated

Geohydrologic cross-section F-F′ from J. B. and J. P. Ragland well 1, Levy County, Florida, to J. W. Campbell well 1, Flagler County, Florida.

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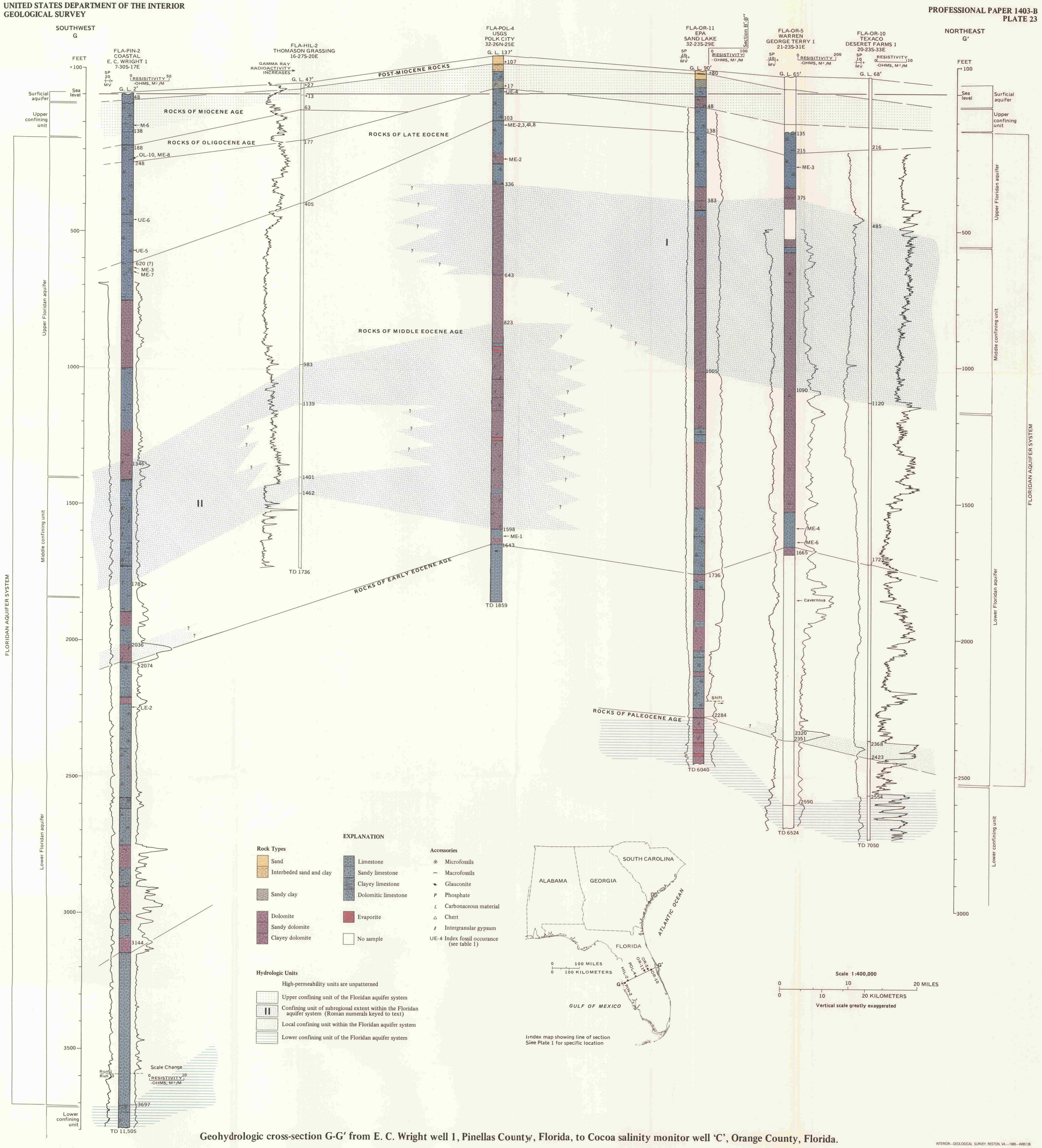

Geohydrologic cross-section G-G′ from E. C. Wright well 1, Pinellas County, Florida, to Cocoa salinity monitor well 'C', Orange County, Florida.

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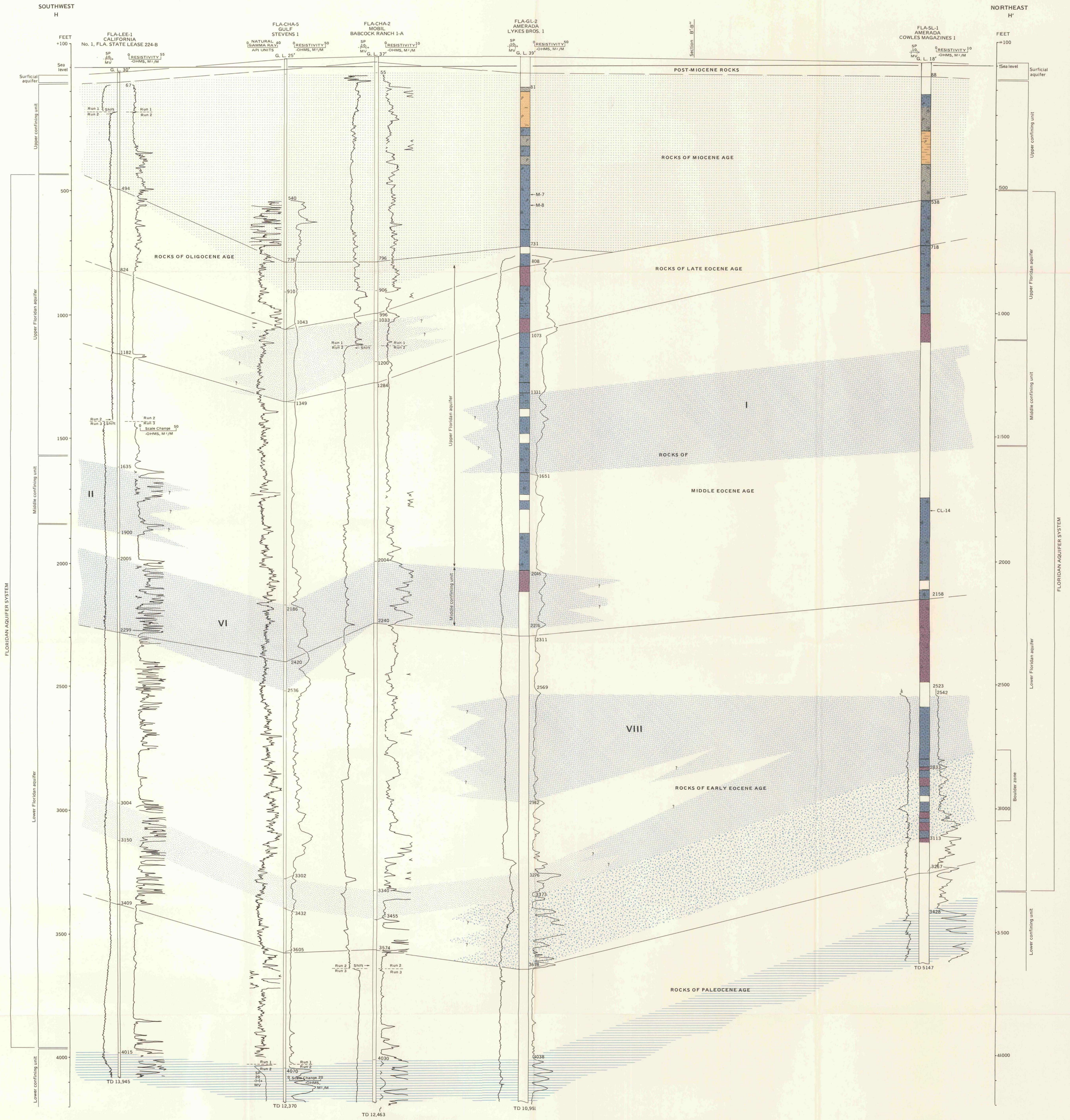


EXPLANATION

Rock Types

- Sand
- Slightly clayey sand
- Clay
- Calcareous clay
- Limestone
- Sandy limestone
- Dolomitic limestone
- Dolomite
- No sample

Accessories

- Microfossils
- Macrofossils
- P Phosphate
- L Carbonaceous material
- Chert
- M-7 Index fossil occurance (see table 1)

Hydrologic Units

High-permeability units are unpatterned

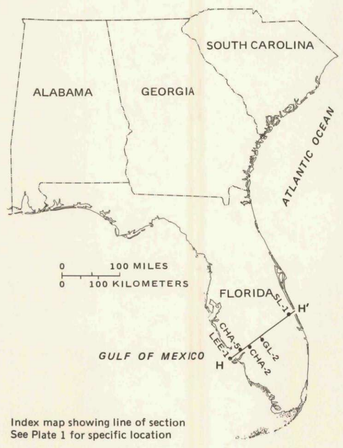
- Upper confining unit of the Floridan aquifer system
- I Confining unit of subregional extent within the Floridan aquifer system (Roman numerals keyed to text)
- Local confining unit within the Floridan aquifer system
- Lower confining unit of the Floridan aquifer system
- Boulder zone, a cavernous zone of subregional extent

Scale 1:400,000

0 10 20 MILES

0 10 20 KILOMETERS

Vertical scale greatly exaggerated



Index map showing line of section
See Plate 1 for specific location

Geohydrologic cross-section H-H′ from State Lease 224-B well 1, Lee County, Florida, to Cowles Magazines well 1, St. Lucie County, Florida.

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