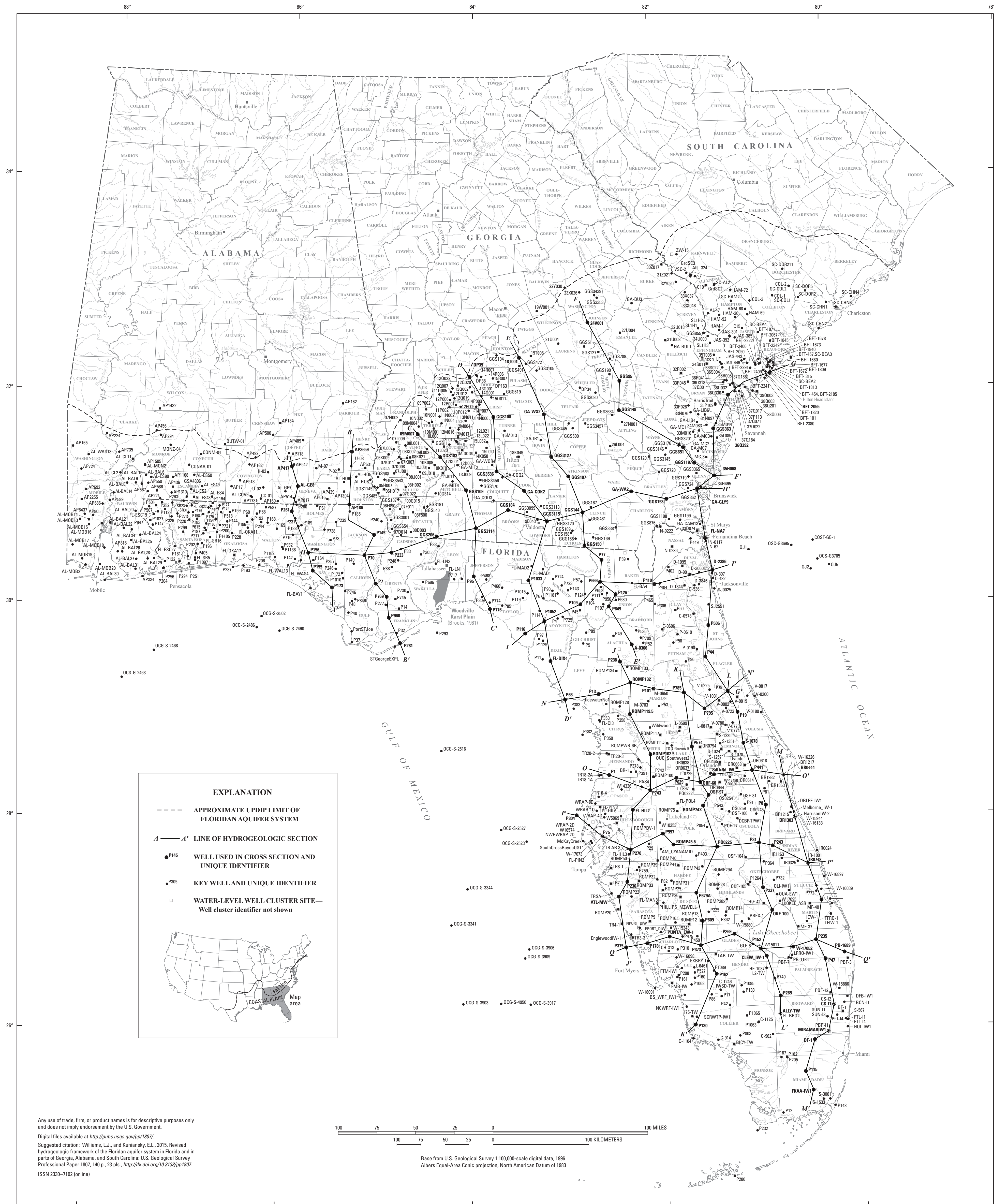
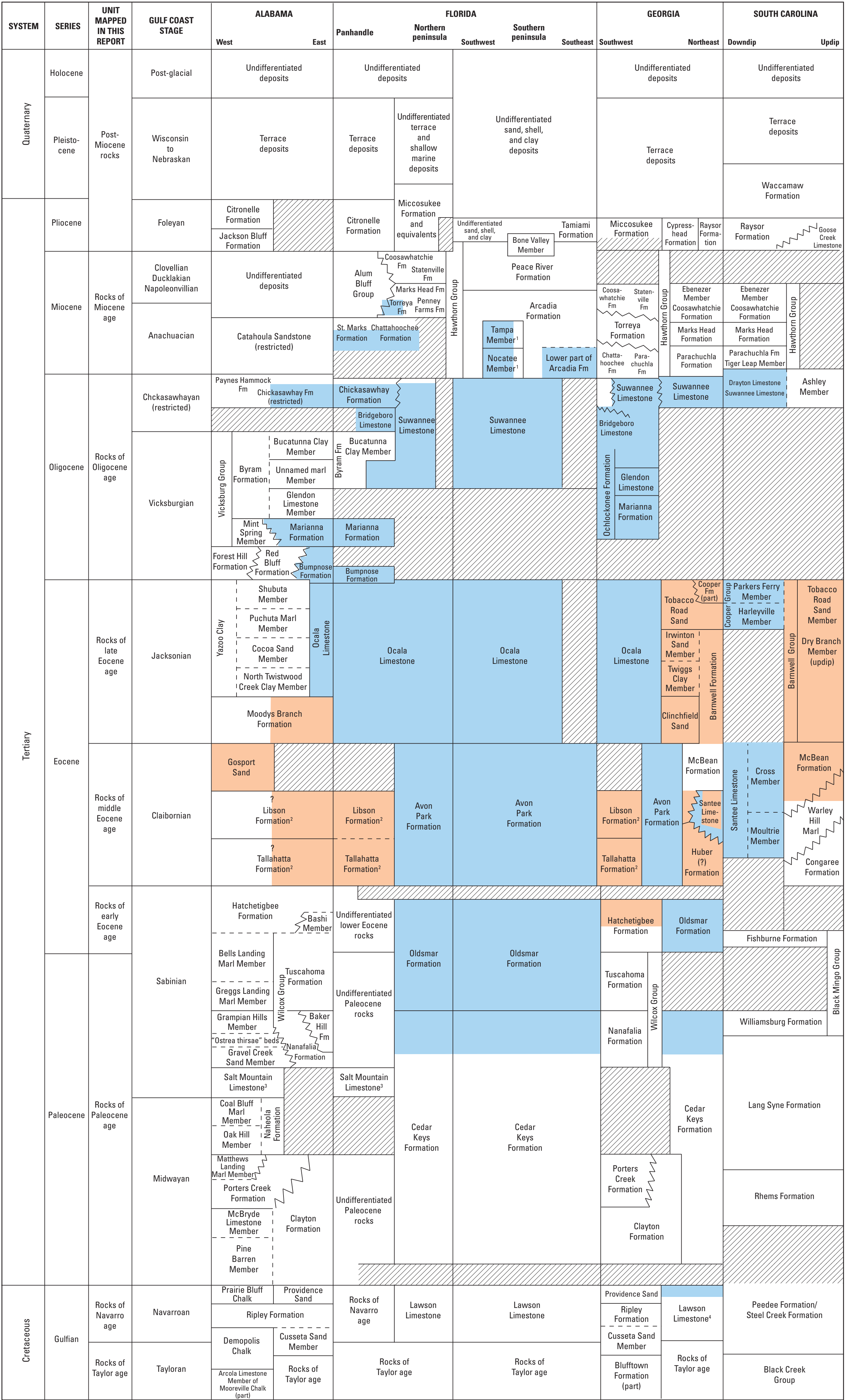




Location of Key Wells and Hydrogeologic Cross Sections Used in the Floridan Aquifer System Study, Southeastern United States

By
Lester J. Williams and Eve L. Kuniansky
2015



¹Previously included in Tampa Limestone.
²Clastic unit now included in Lower Floridan aquifer.
³Local, mostly subsurface.
⁴Very locally part of Floridan aquifer system.

EXPLANATION

Mostly carbonate rocks of Floridan aquifer system

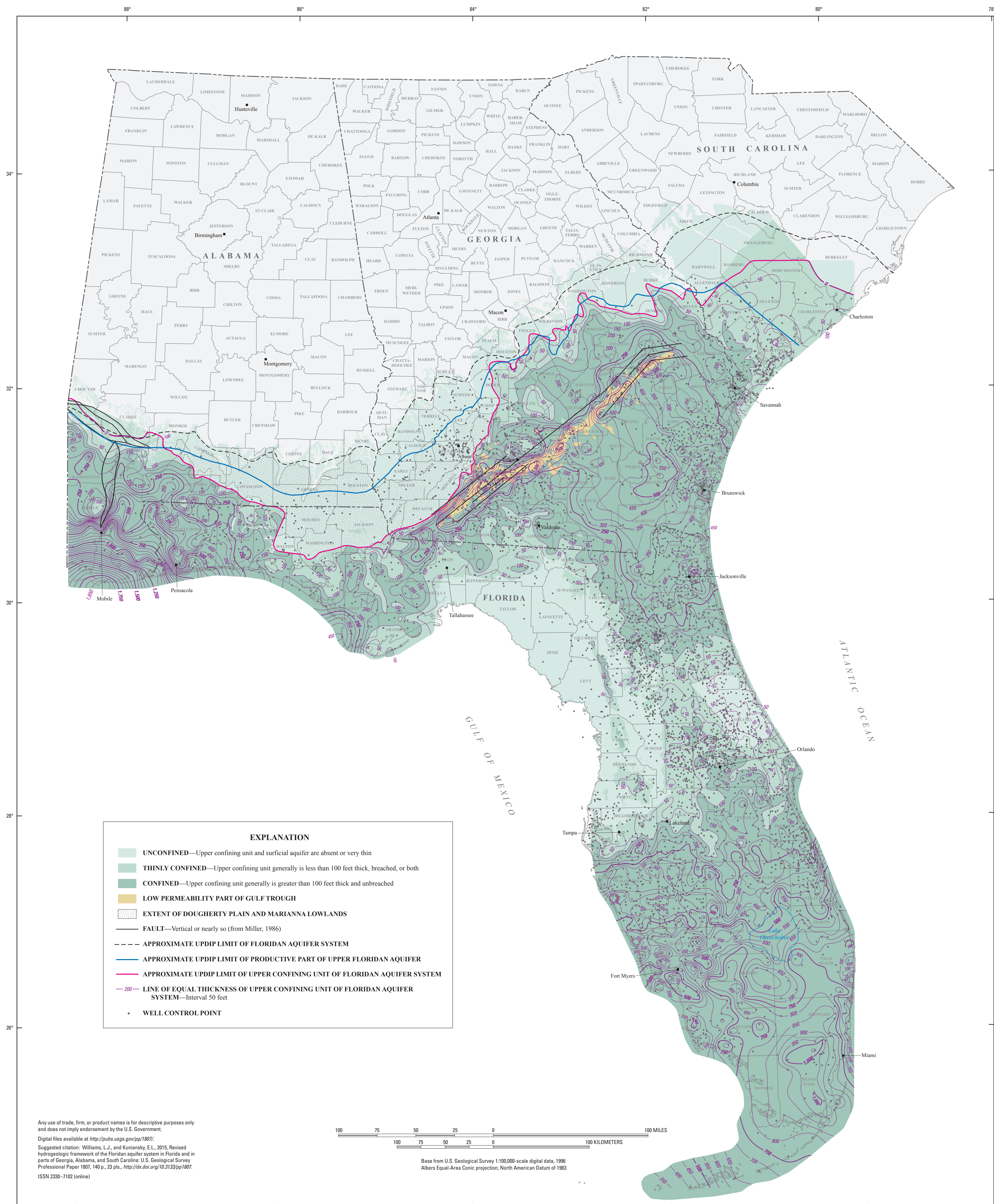
Mostly clastic rocks of Southeastern Coastal Plain aquifer system that are also included in Floridan aquifer system

Fm Formation

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Suggested citation: Williams, L.J., and Kuniansky, E.L., 2015, Revised hydrogeologic framework of the Floridan aquifer system in Florida and in parts of Georgia, Alabama, and South Carolina: U.S. Geological Survey Professional Paper 1807, 140 p., 23 pls., <http://dx.doi.org/10.3133/pp1807>.
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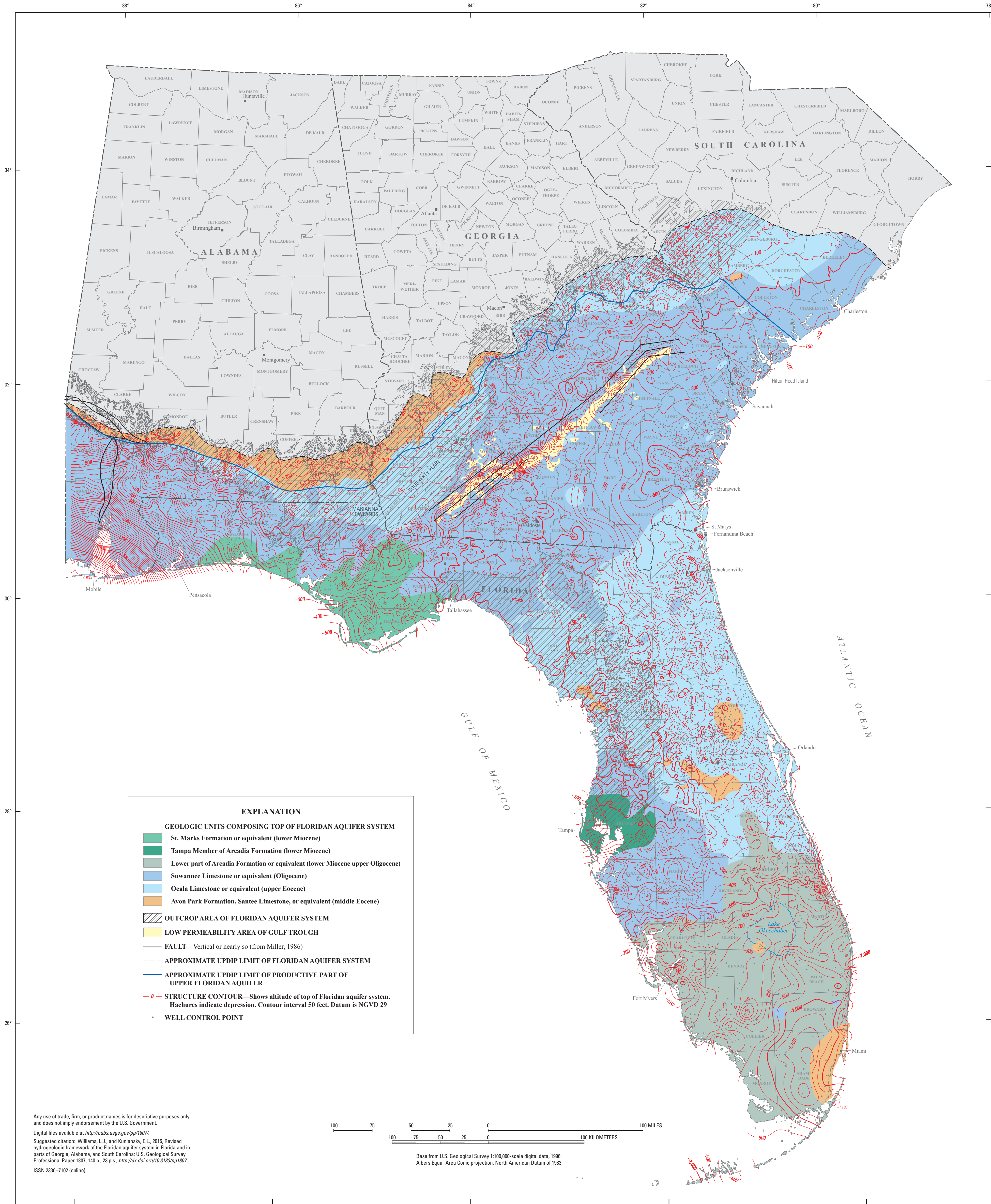
Generalized Correlation Chart Showing the Time-Stratigraphic, Rock-Stratigraphic, and Regional Hydrogeologic Units in the Floridan Aquifer System

By
Lester J. Williams and Eve L. Kuniansky
2015



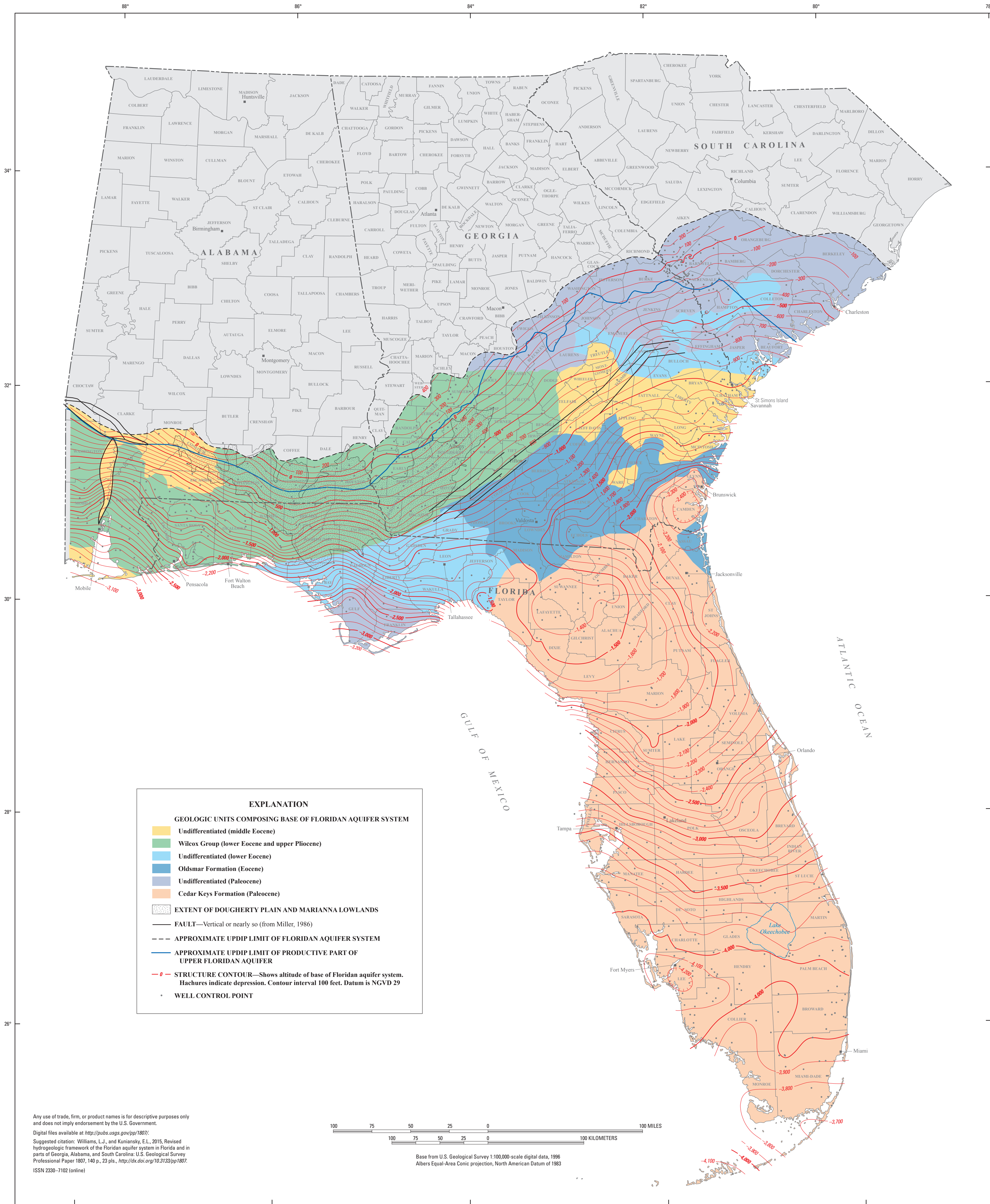
Extent and Thickness of the Upper Confining Unit of the Floridan Aquifer System and Occurrence of Confined and Unconfined Conditions, Southeastern United States

By
Lester J. Williams and Eve L. Kuniansky
2015



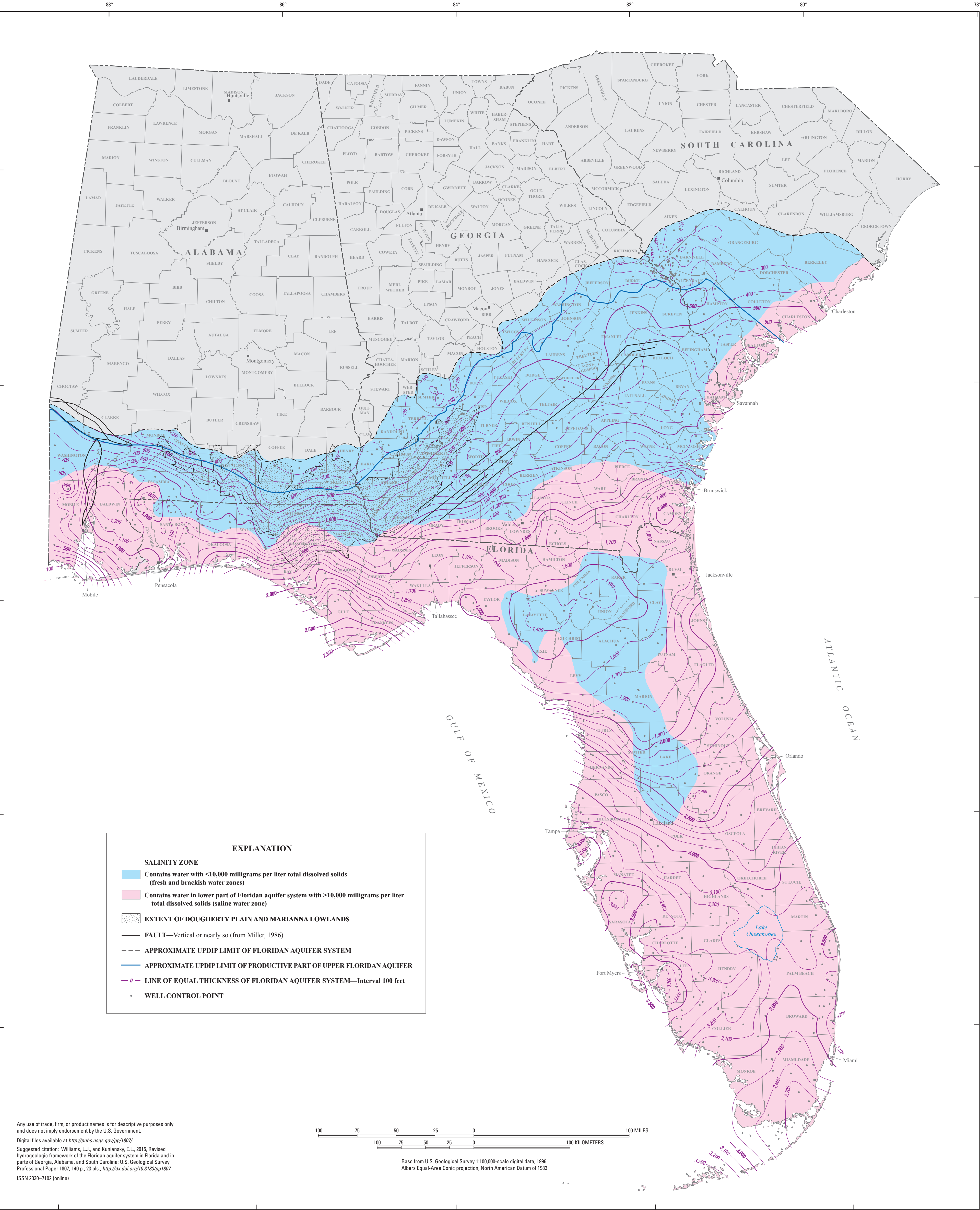
Altitude of the Top of the Floridan Aquifer System, Southeastern United States

By
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2015



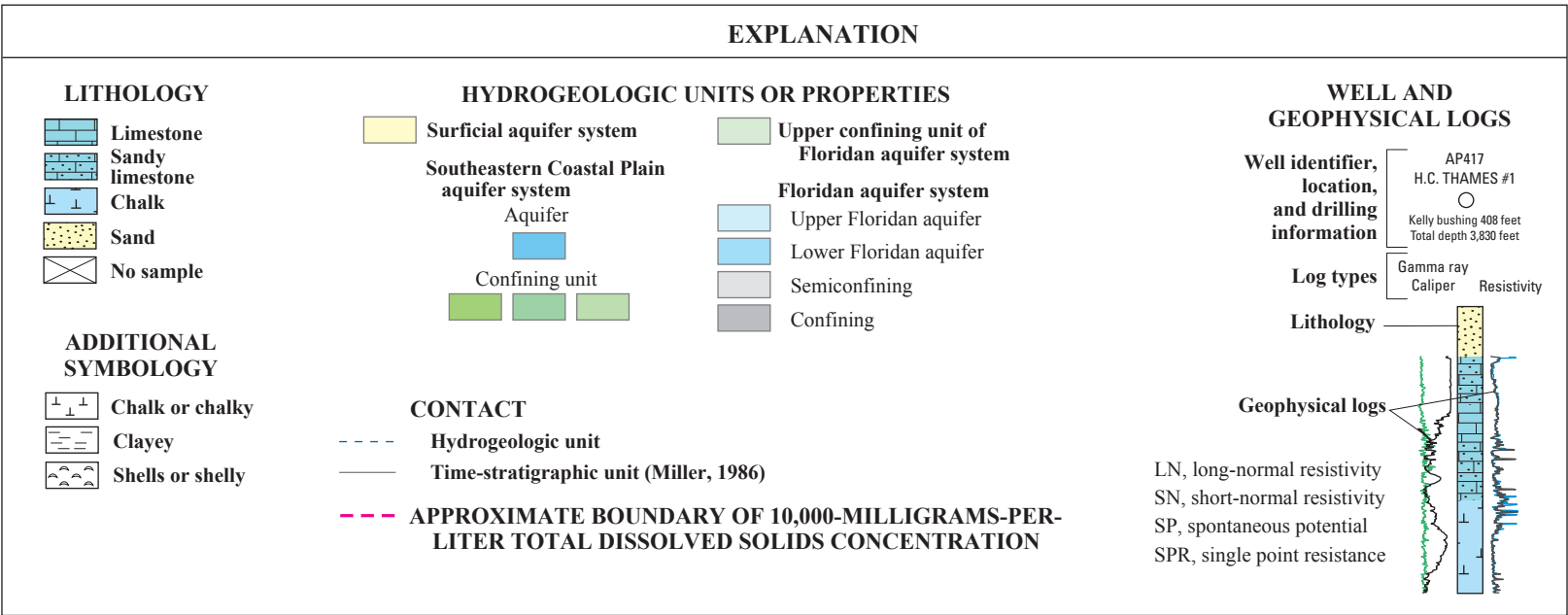
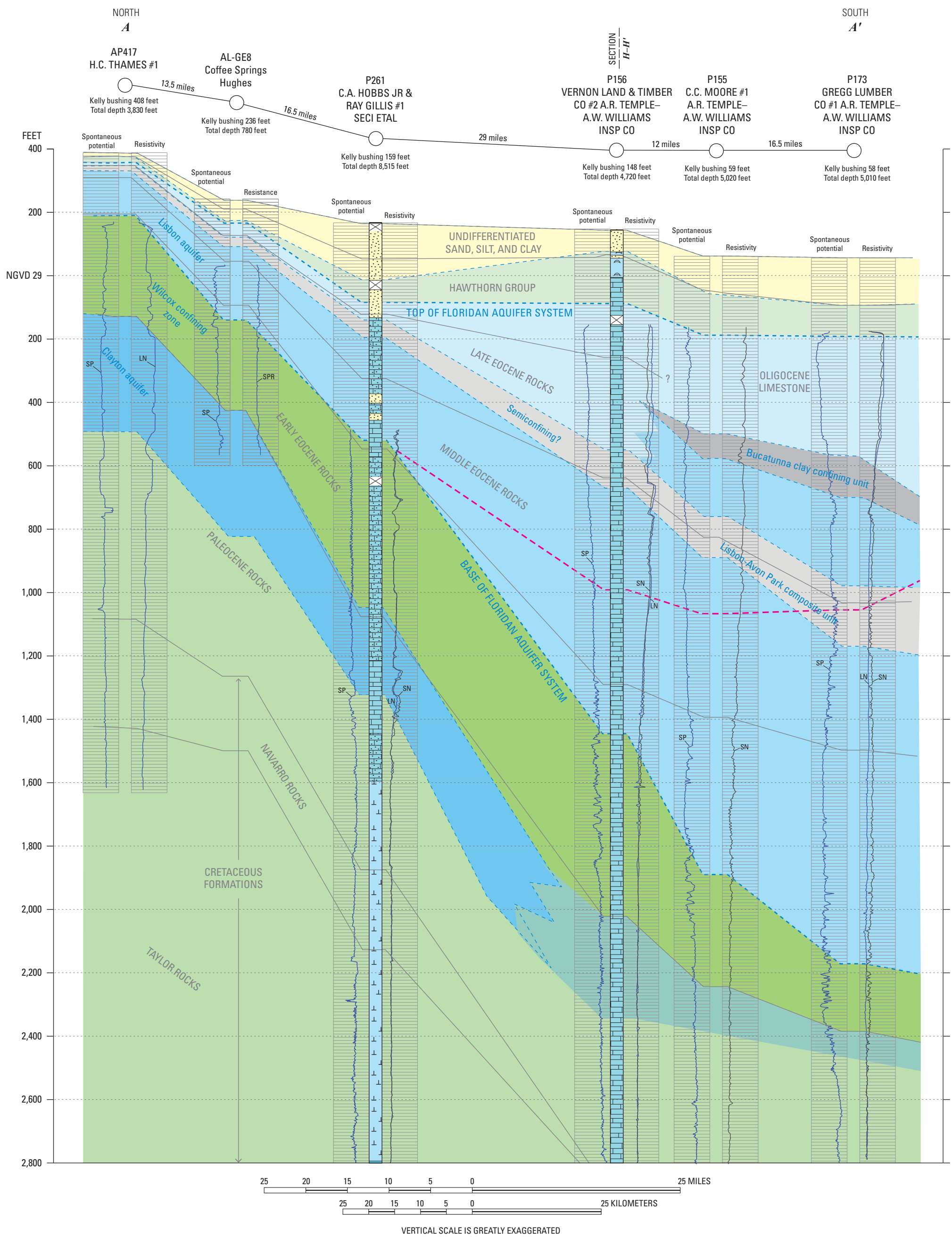
Altitude of the Base of the Floridan Aquifer System, Southeastern United States

By
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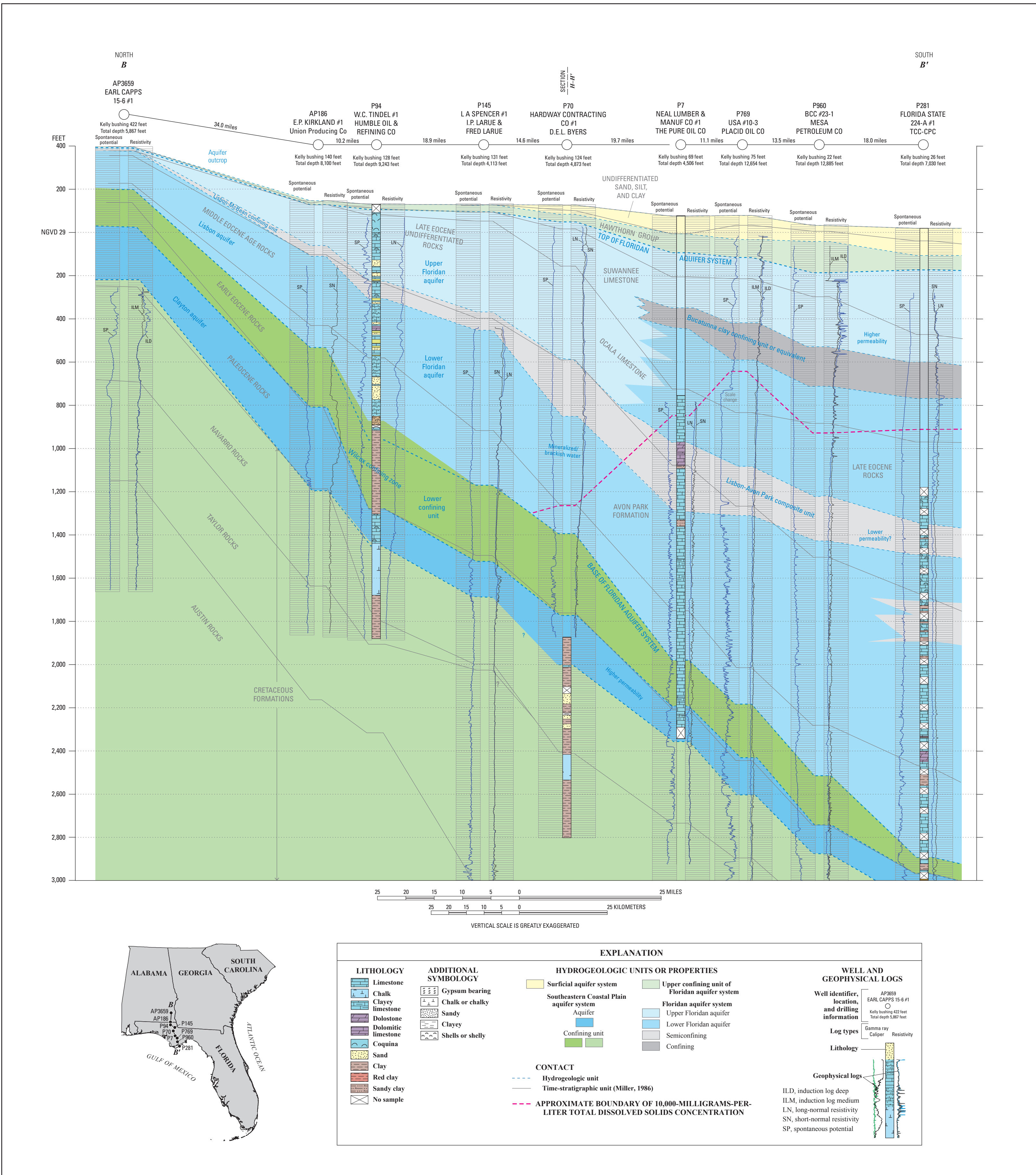
Thickness of the Floridan Aquifer System, Southeastern United States

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Lester J. Williams and Eve L. Kuniansky
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Generalized Hydrogeologic Cross Section A–A' from Coffee County, Alabama, to Bay County, Florida

By
Lester J. Williams and Eve L. Kuniansky
2015



Generalized Hydrogeologic Cross Section *B–B'* from Henry County, Alabama, to Franklin County, Florida

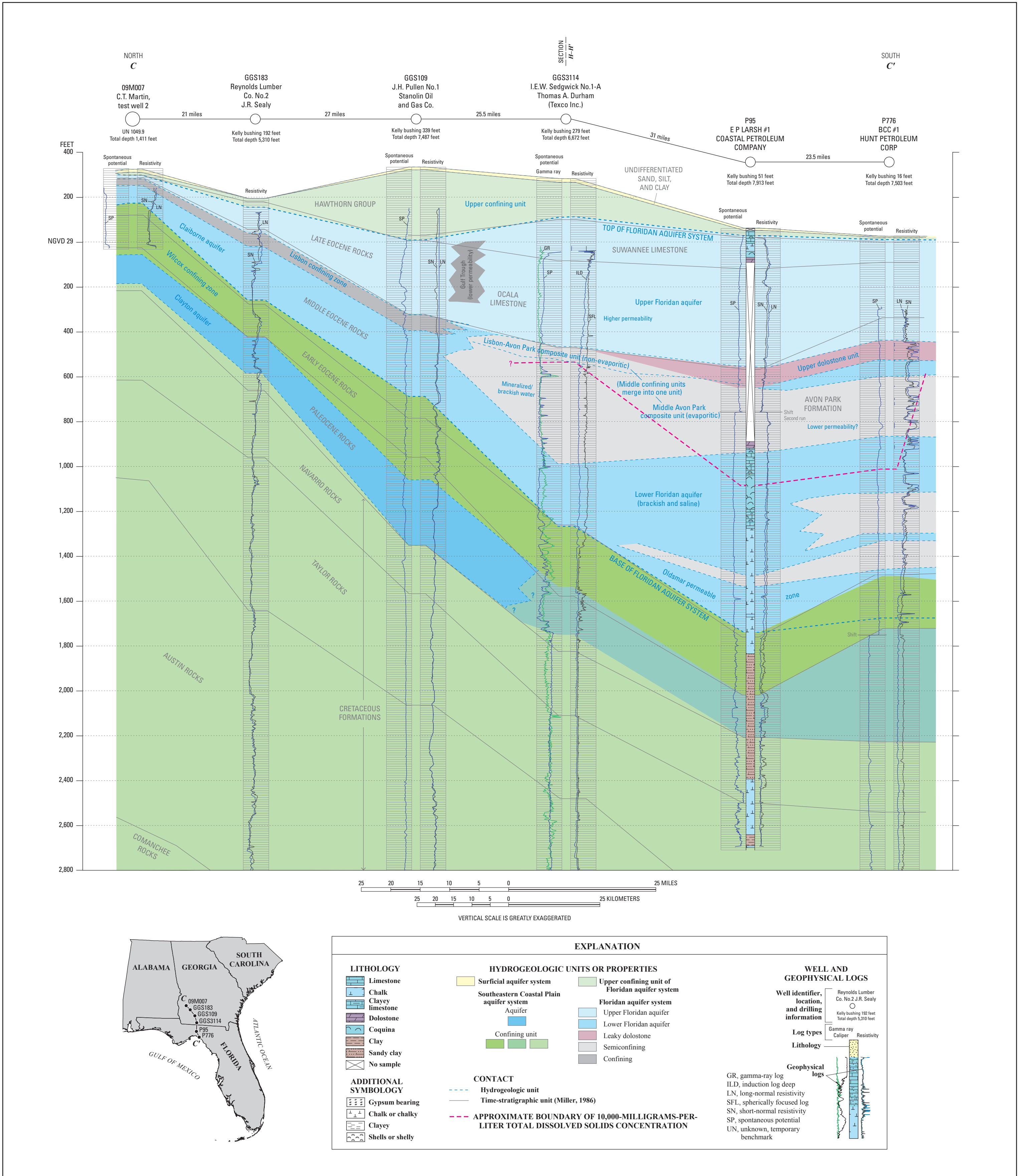
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Generalized Hydrogeologic Cross Section C–C' from Randolph County, Georgia, to Taylor County, Florida

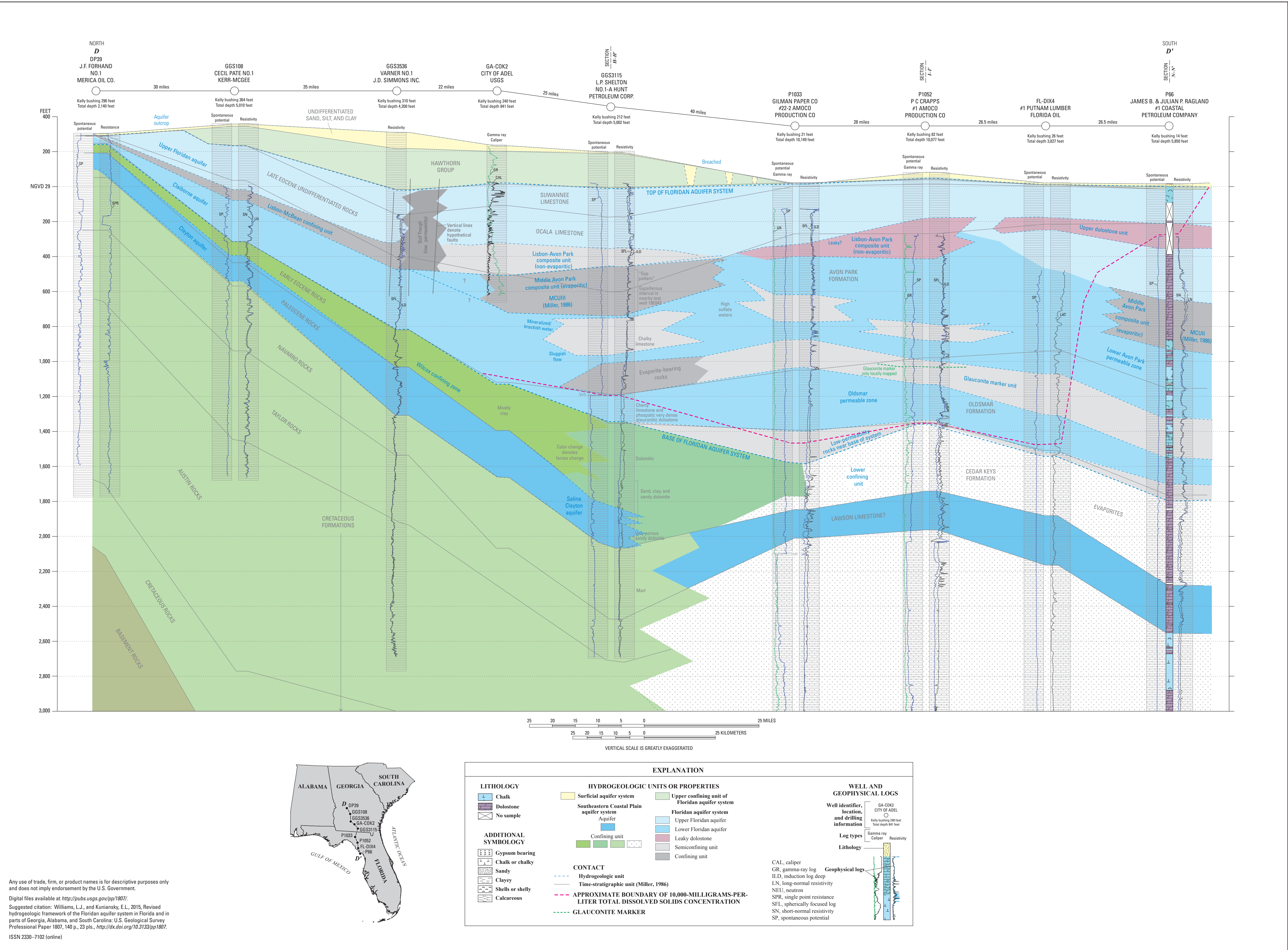
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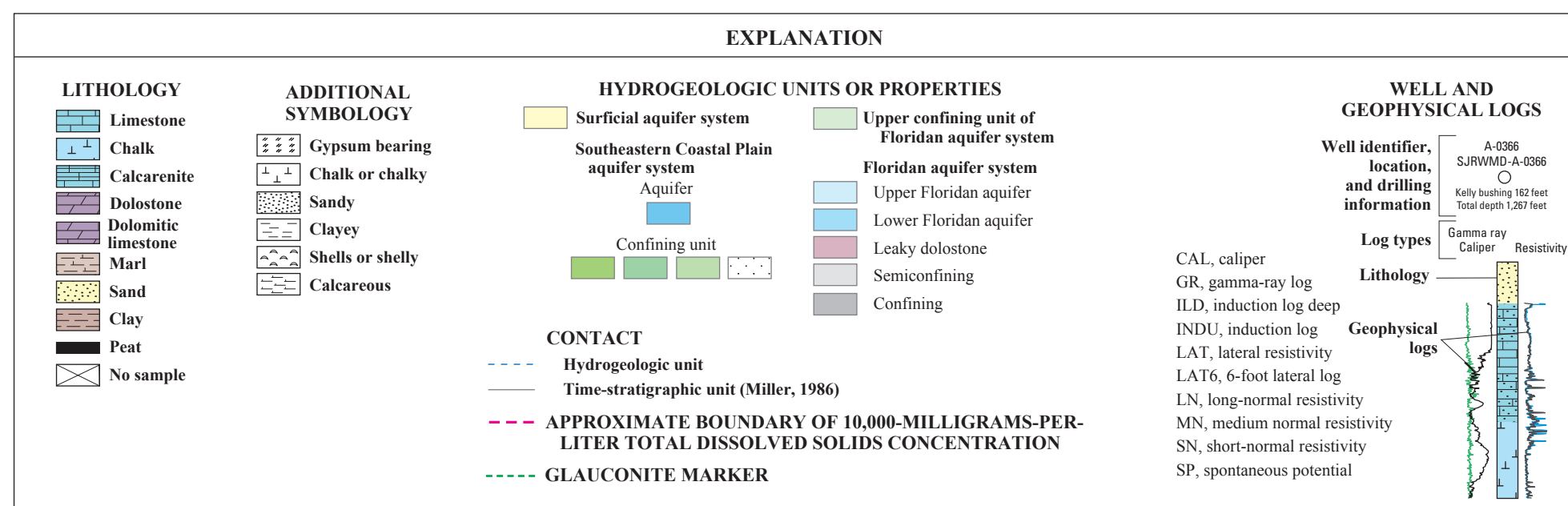
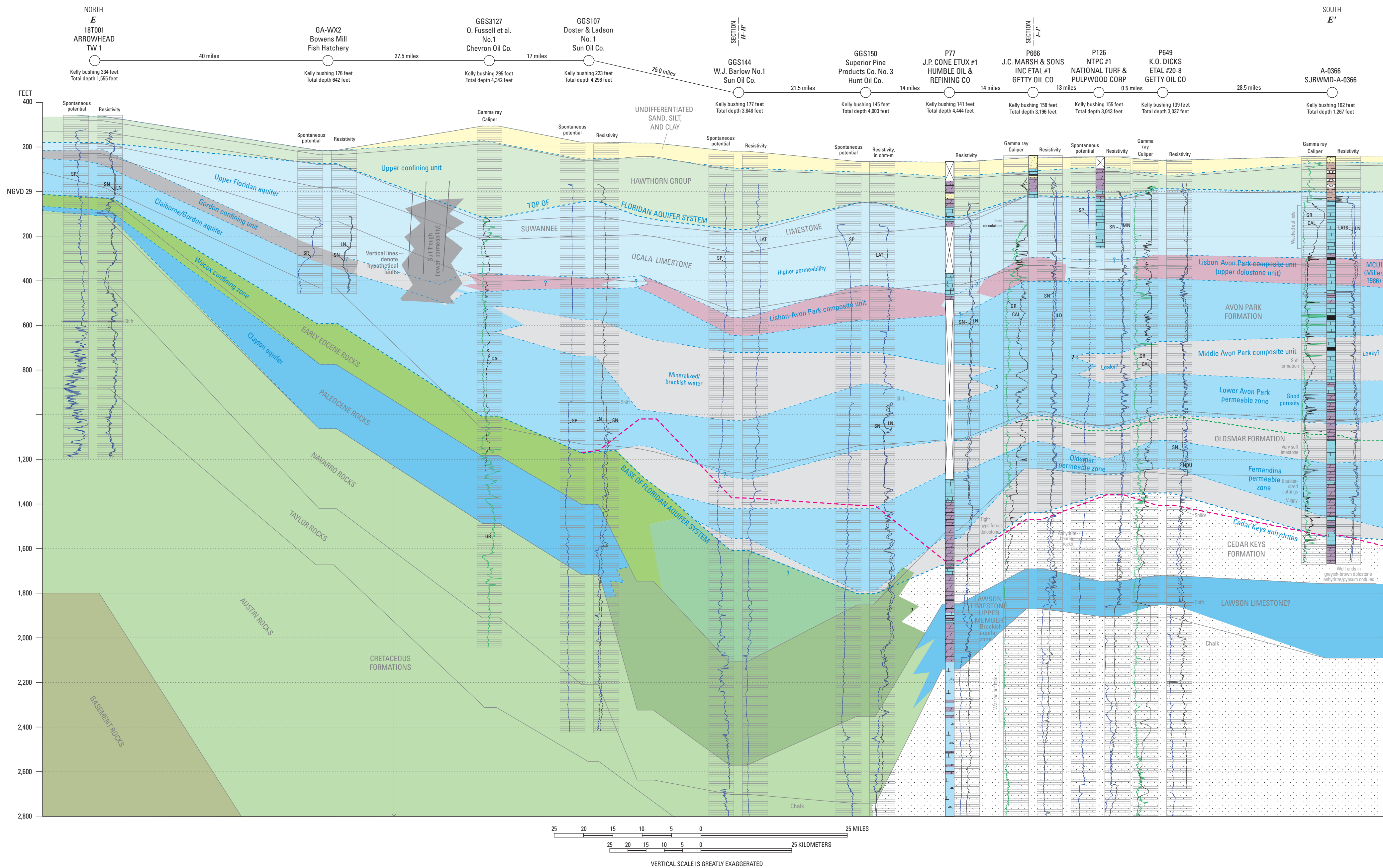


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Generalized Hydrogeologic Cross Section D-D' from Macon County, Georgia, to Levy County, Florida

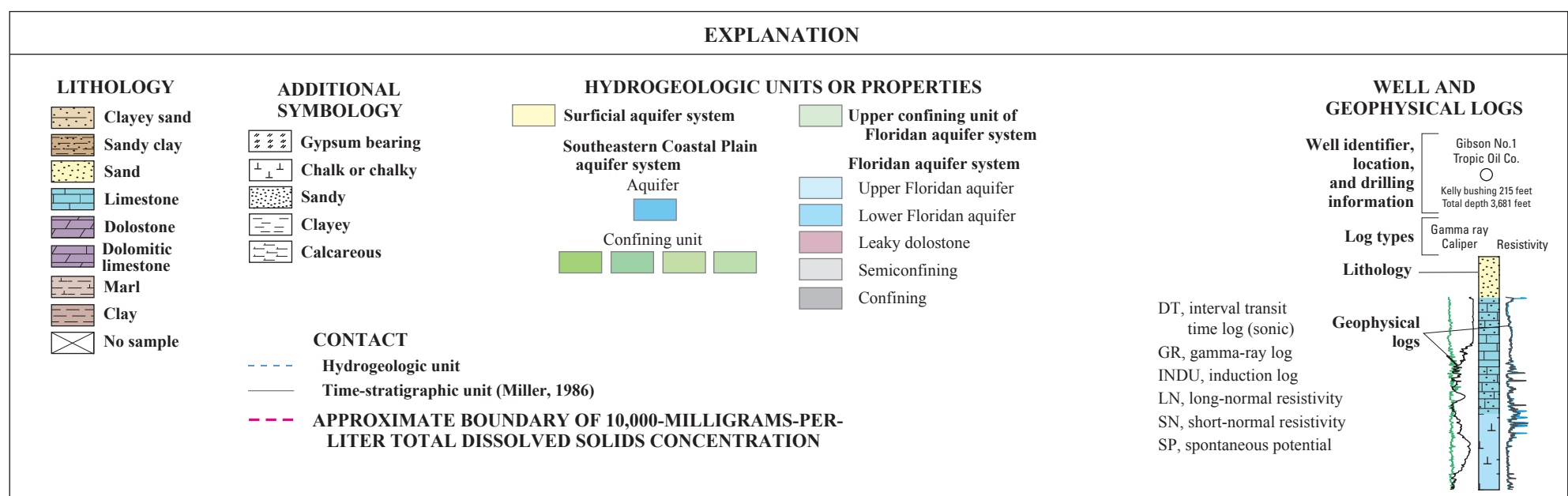
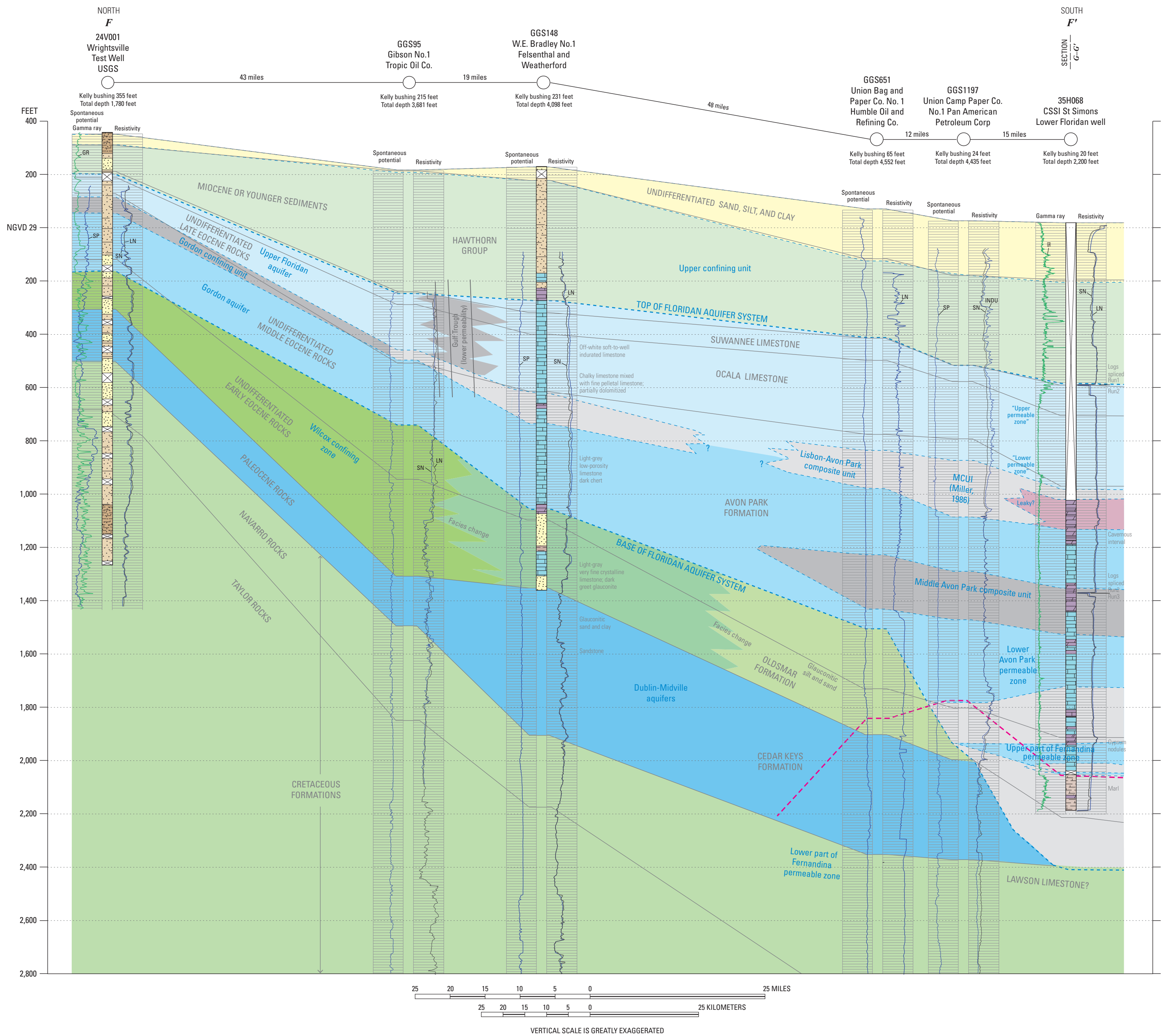
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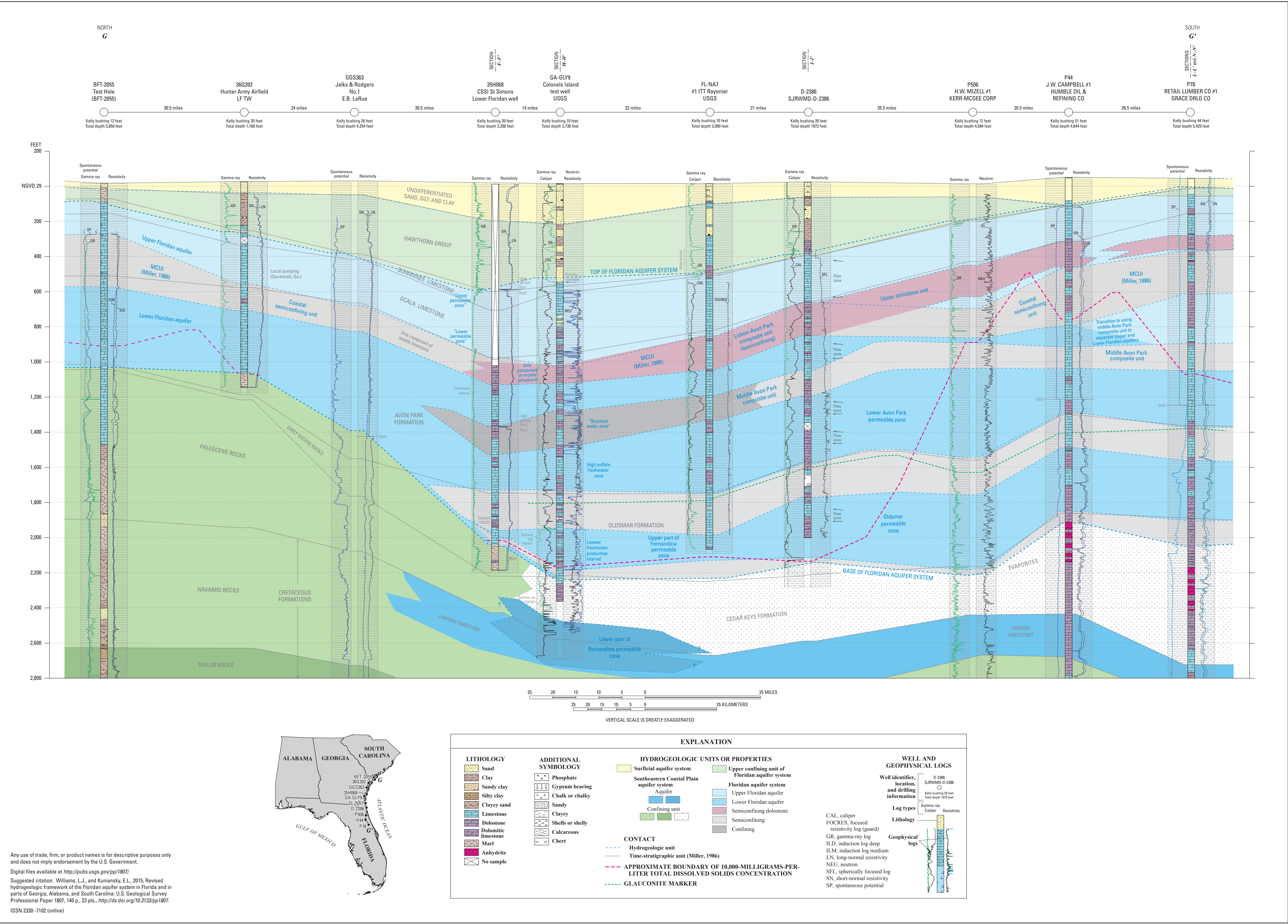
Generalized Hydrogeologic Cross Section E-E' from Houston County, Georgia, to Alachua County, Florida

By
Lester J. Williams and Eve L. Kuniansky
2015



Generalized Hydrogeologic Cross Section *F–F'* from Washington County to Glynn County, Georgia

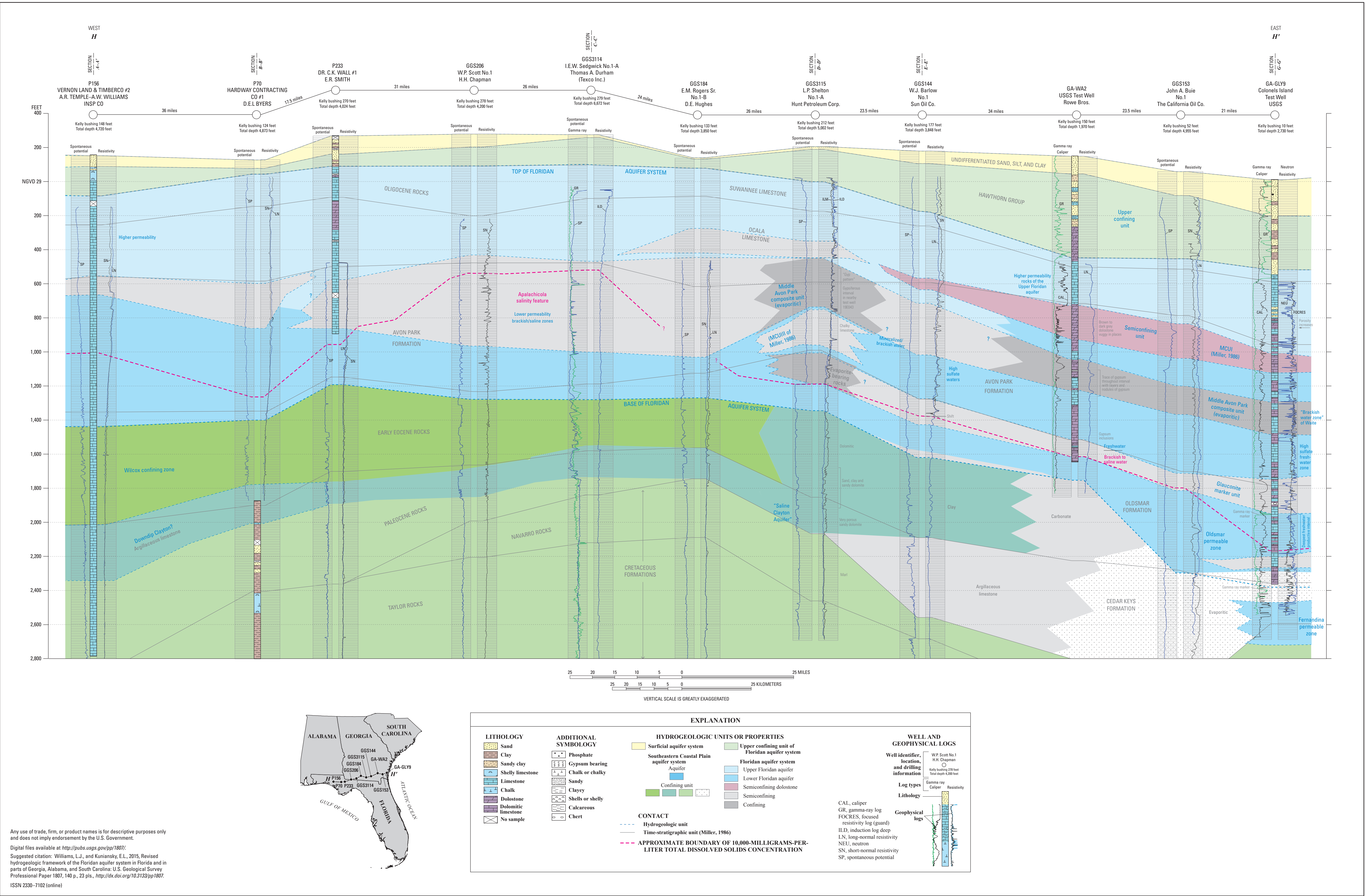
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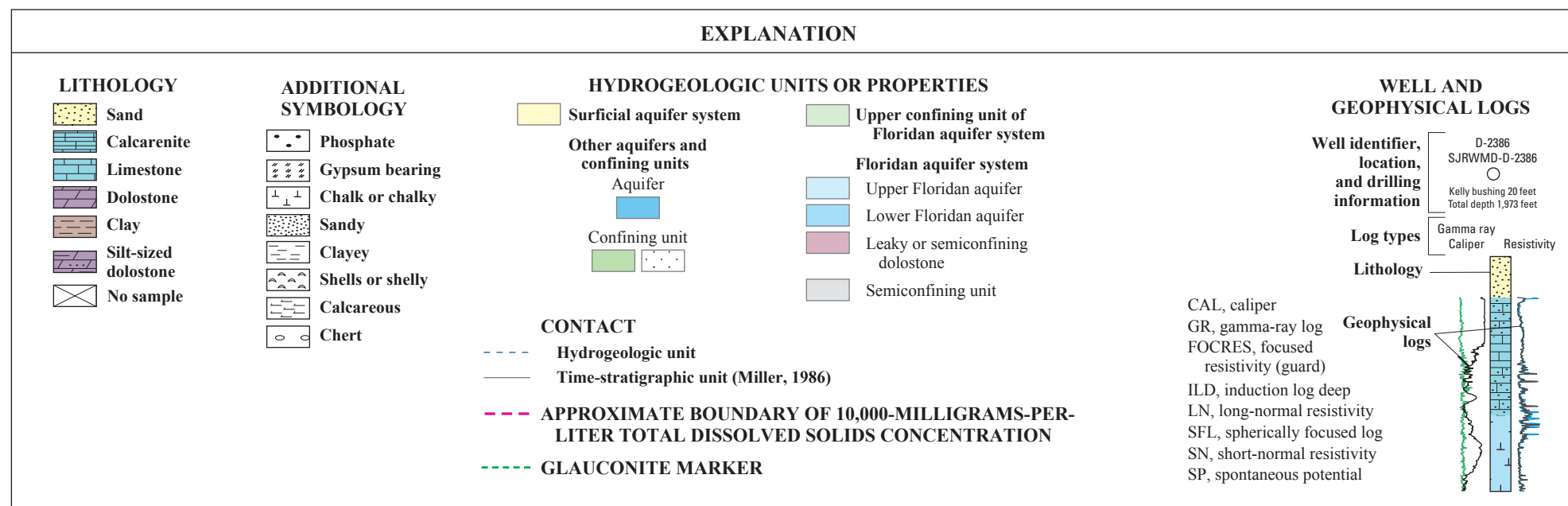
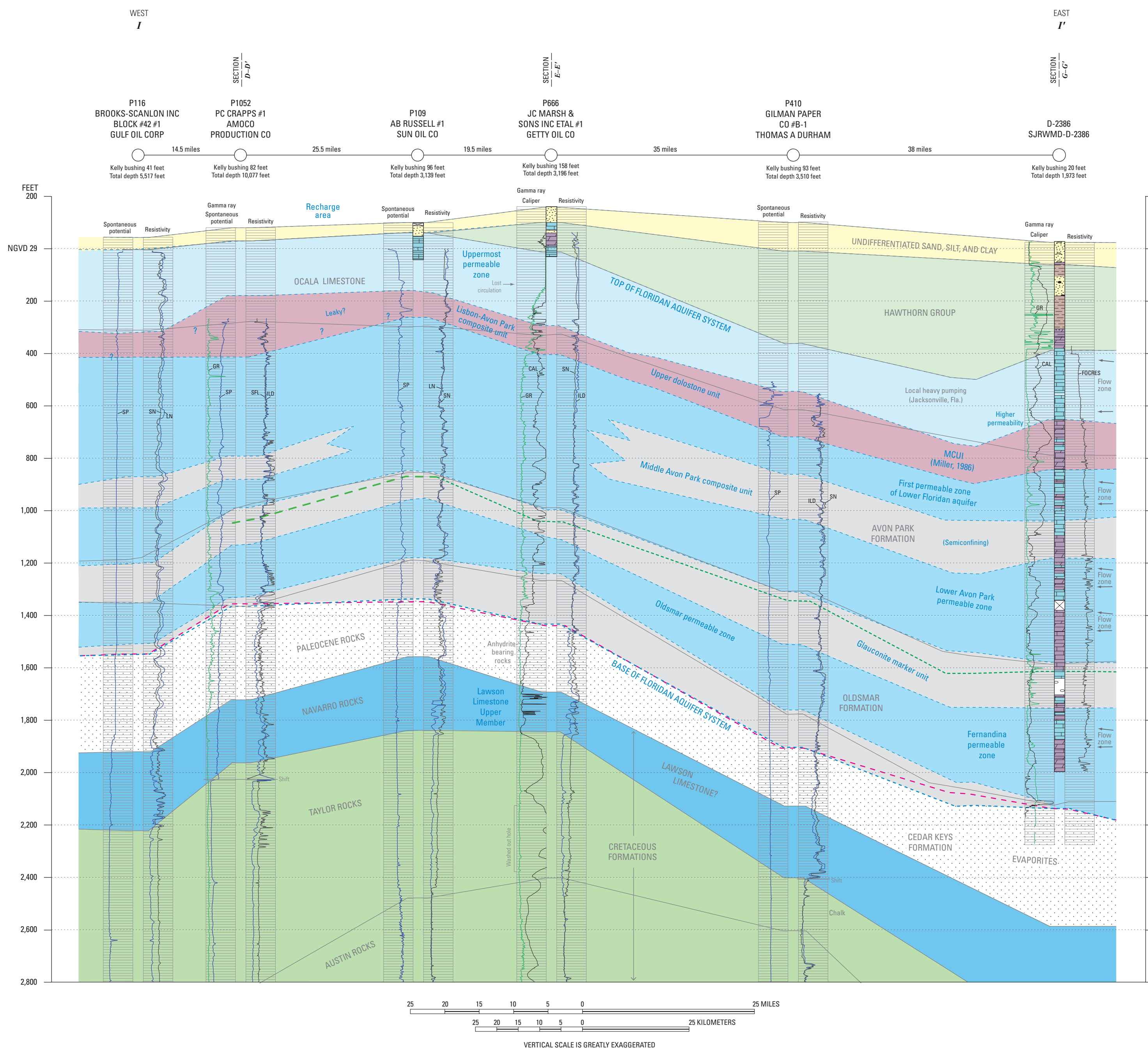
Generalized Hydrogeologic Cross Section G–G' from Beaufort County, South Carolina, to Volusia County, Florida

By
Lester J. Williams and Eve L. Kuniansky
2015



Generalized Hydrogeologic Cross Section **H–H'** from Washington County, Florida, to Glynn County, Georgia

By
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Generalized Hydrogeologic Cross Section I-I' from Taylor County to Duval County, Florida

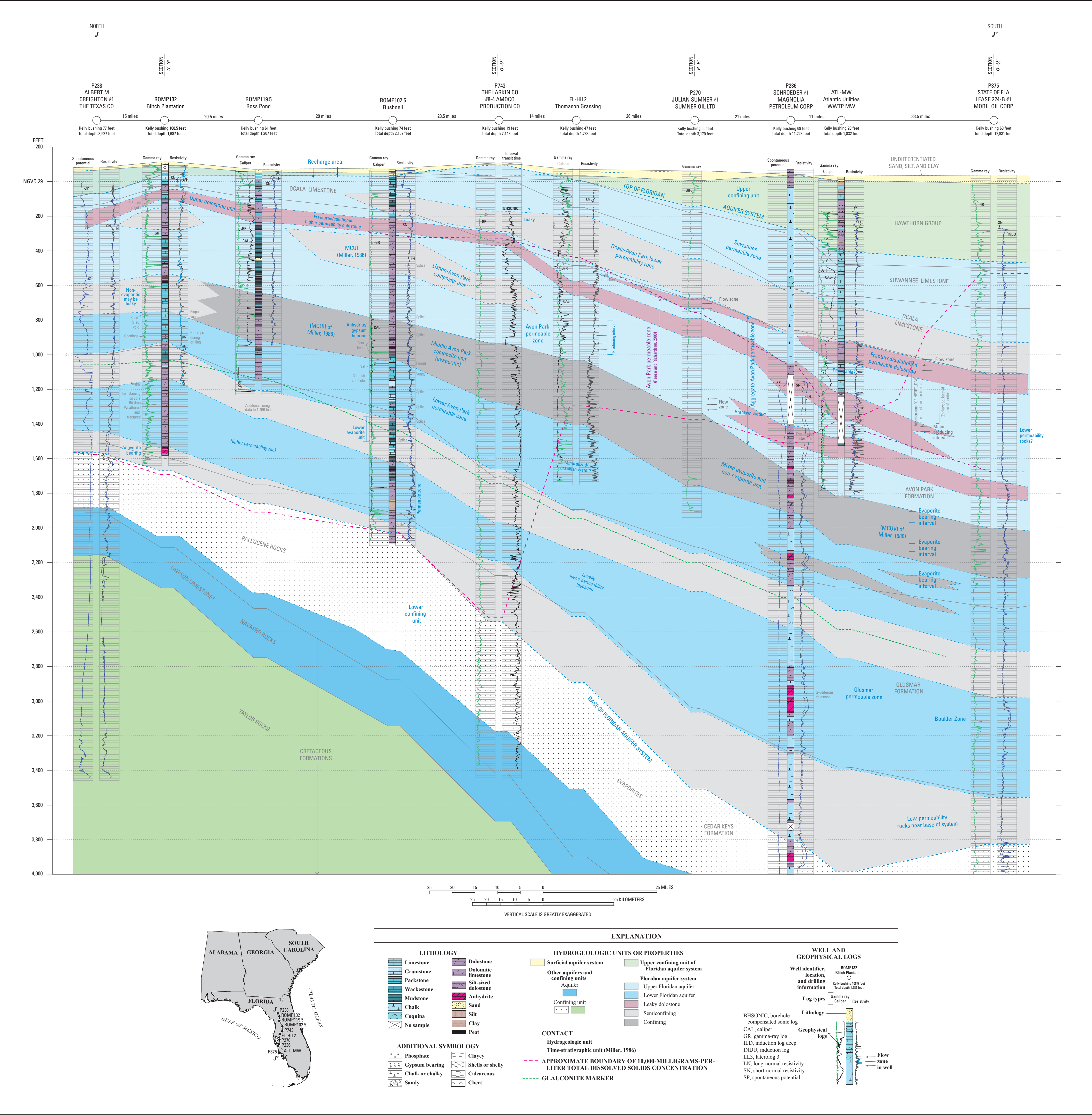
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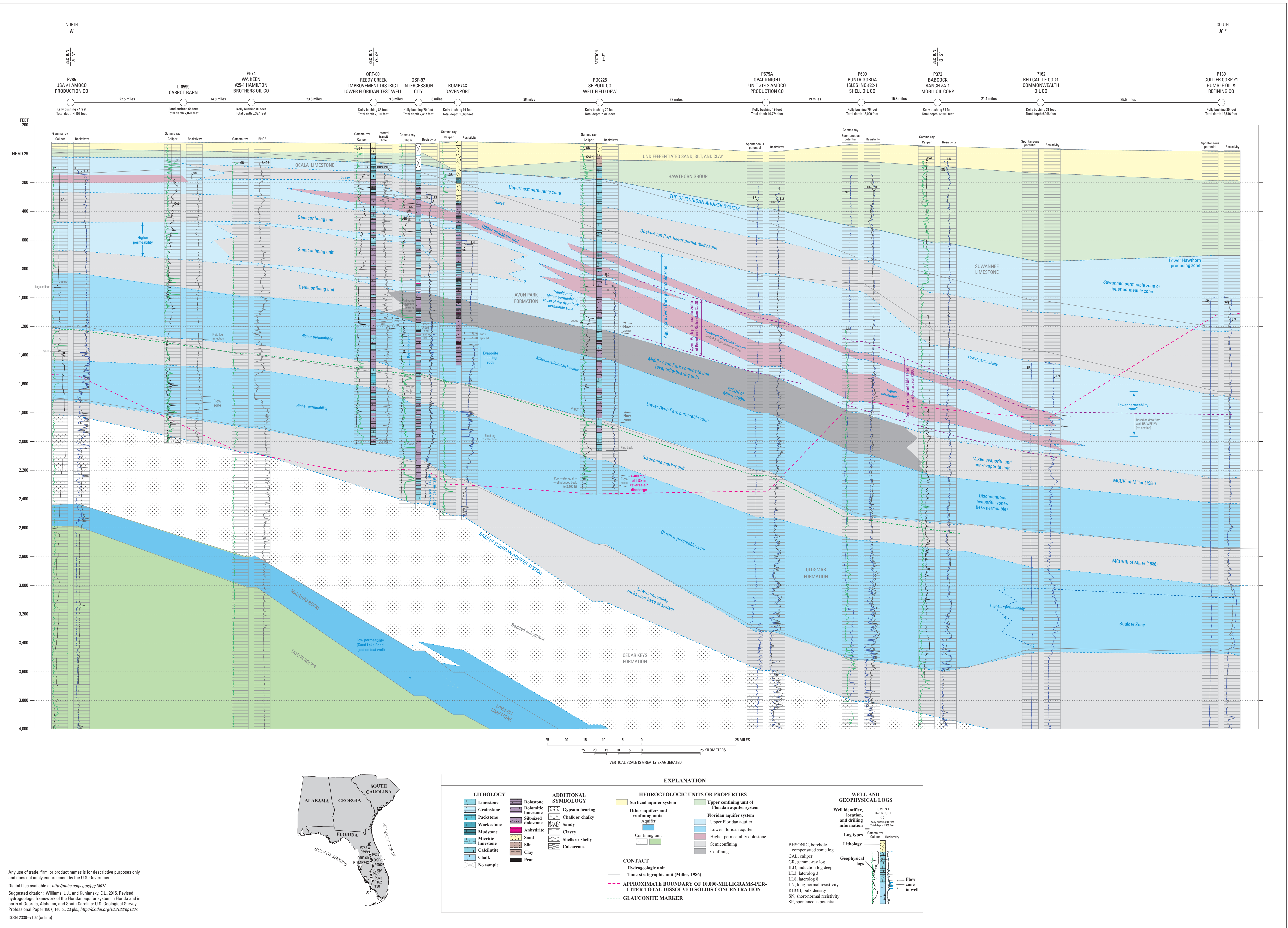
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Generalized Hydrogeologic Cross Section J–J' from Alachua County to Charlotte County, Florida

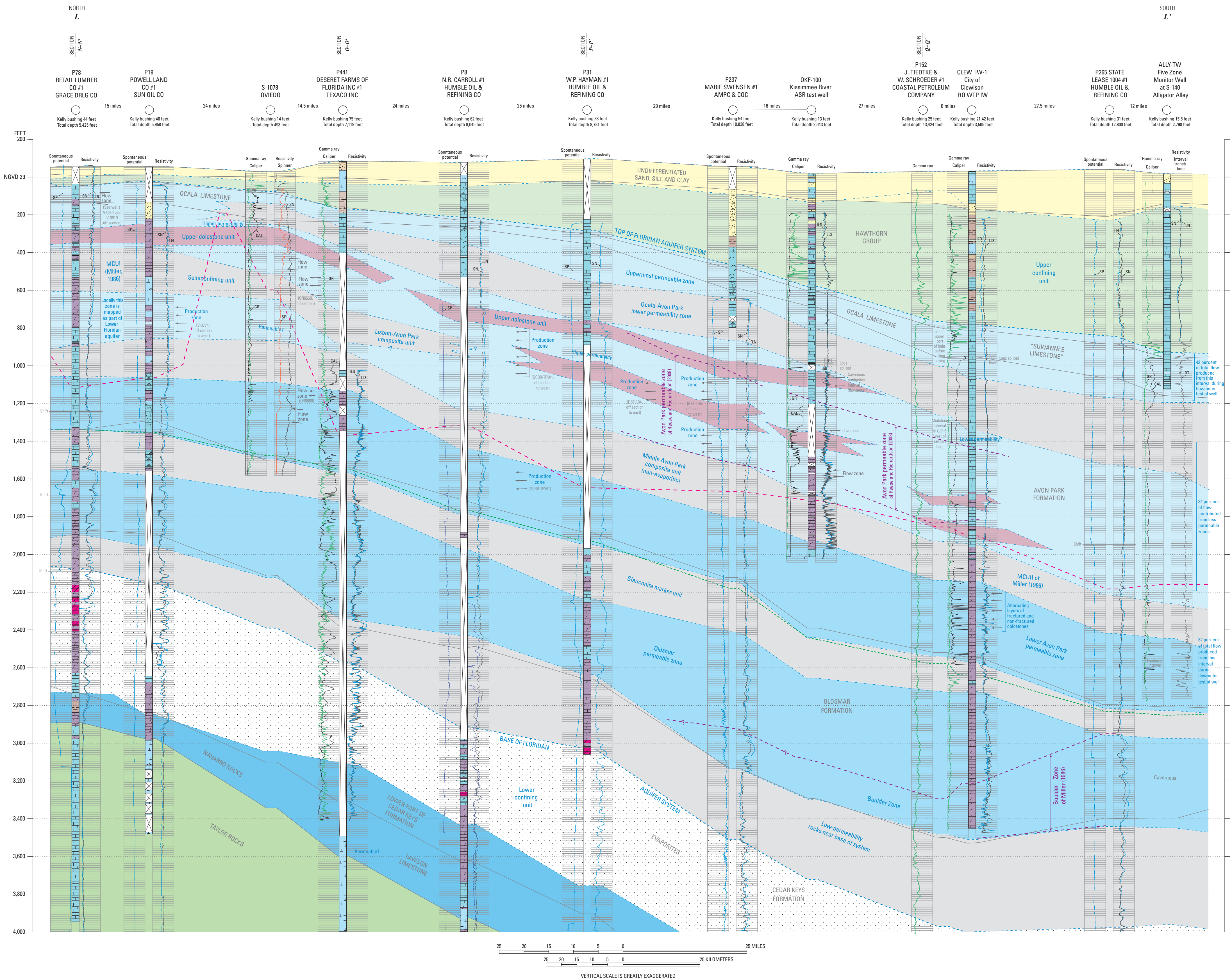
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Generalized Hydrogeologic Cross Section K-K' from Marion County to Collier County, Florida

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LITHOLOGY

[Pattern]	Limestone	[Pattern]	Anhydrite
[Pattern]	Micritic limestone	[Pattern]	Sand
[Pattern]	Calcareenite	[Pattern]	Silt
[Pattern]	Clayey limestone	[Pattern]	Clay
[Pattern]	Chalk	[Pattern]	Clayey sand
[Pattern]	Coquina	[Pattern]	Grainstone
[Pattern]	Dolostone	[Pattern]	Packstone
[Pattern]	Dolomite	[Pattern]	Wackestone
[Pattern]	Mudstone	[Pattern]	Peat
[Pattern]	Silt-sized dolostone	[Pattern]	
[Pattern]	Silt-sized dolomite	[Pattern]	
[Pattern]	No sample		

ADDITIONAL SYMBOLOGY

[Pattern]	Phosphate
[Pattern]	Gypsum bearing
[Pattern]	Chalk or chalky
[Pattern]	Sandy
[Pattern]	Clayey
[Pattern]	Shells or shelly
[Pattern]	Calcareous
[Pattern]	Chert

HYDROGEOLOGIC UNITS OR PROPERTIES

[Pattern]	Surficial aquifer system	[Pattern]	Upper confining unit of Floridan aquifer system
[Pattern]	Other aquifers and confining units	[Pattern]	Floridan aquifer system
[Pattern]	Aquifer	[Pattern]	Upper Floridan aquifer
[Pattern]	Confining unit	[Pattern]	Lower Floridan aquifer
[Pattern]		[Pattern]	Permeable dolostone
[Pattern]		[Pattern]	Semiconfining

CONTACT

- Hydrogeologic unit
- Time-stratigraphic unit (Miller, 1986)

APPROXIMATE BOUNDARY OF 10,000-MILLIGRAMS-PER-LITER TOTAL DISSOLVED SOLIDS CONCENTRATION

--- GLAUCONITE MARKER

WELL AND GEOPHYSICAL LOGS

Well identifier, location, and drilling information

S-1078
075101
Kelly bailing 14 feet
Total depth 981 feet

Log types

Gamma ray
Caliper
Resistivity

Lithology

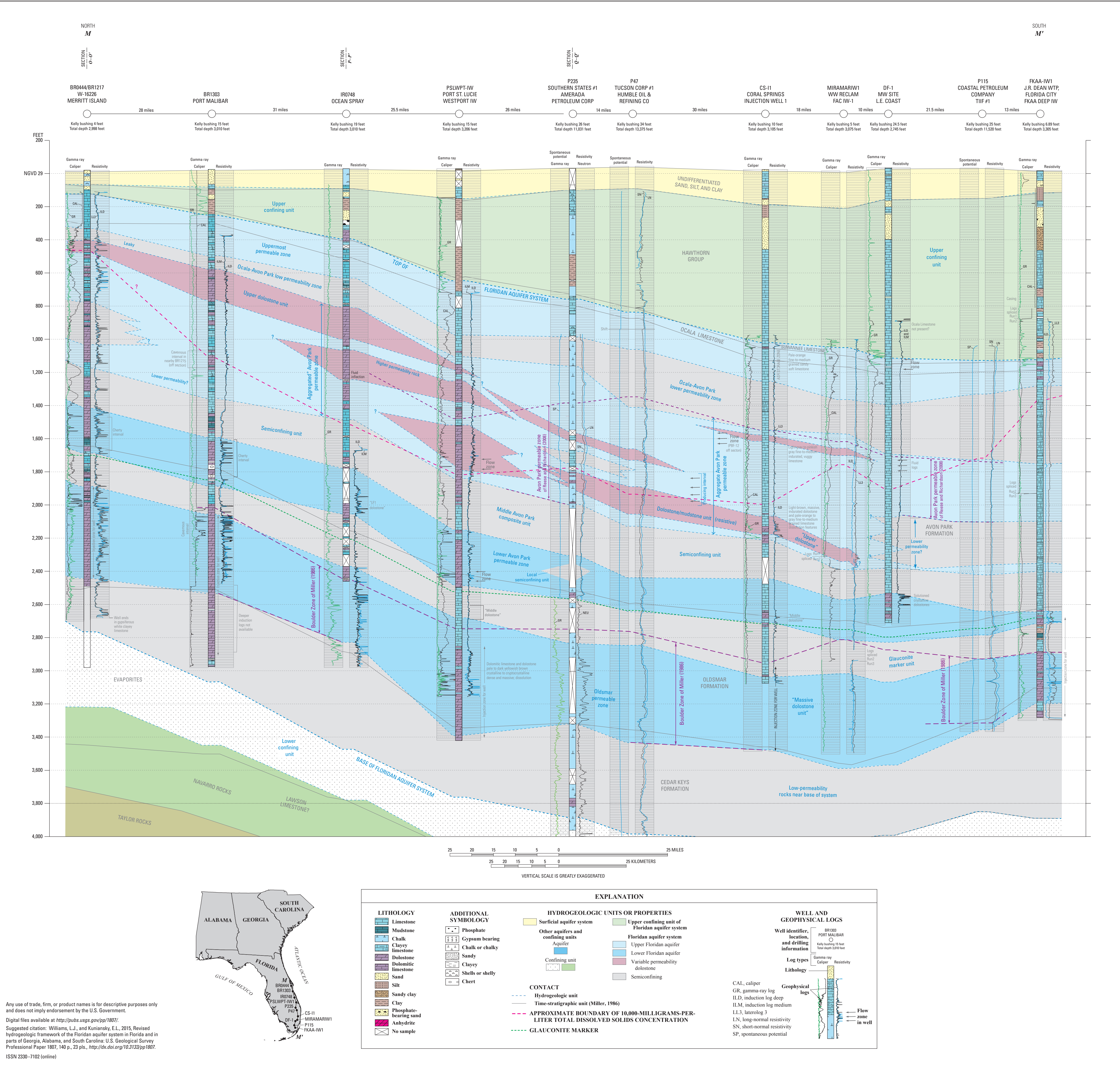
Geophysical logs

CAL, caliper
DT, interval transit time log (sonic)
GR, gamma-ray log
ILD, induction log deep
IL3, laterolog 3
IL8, laterolog 8
LN, long-normal resistivity
SN, short-normal resistivity
SP, spontaneous potential
SPL, spinner log

Flow zone in well

Generalized Hydrogeologic Cross Section L-L' from Flagler County to Broward County, Florida

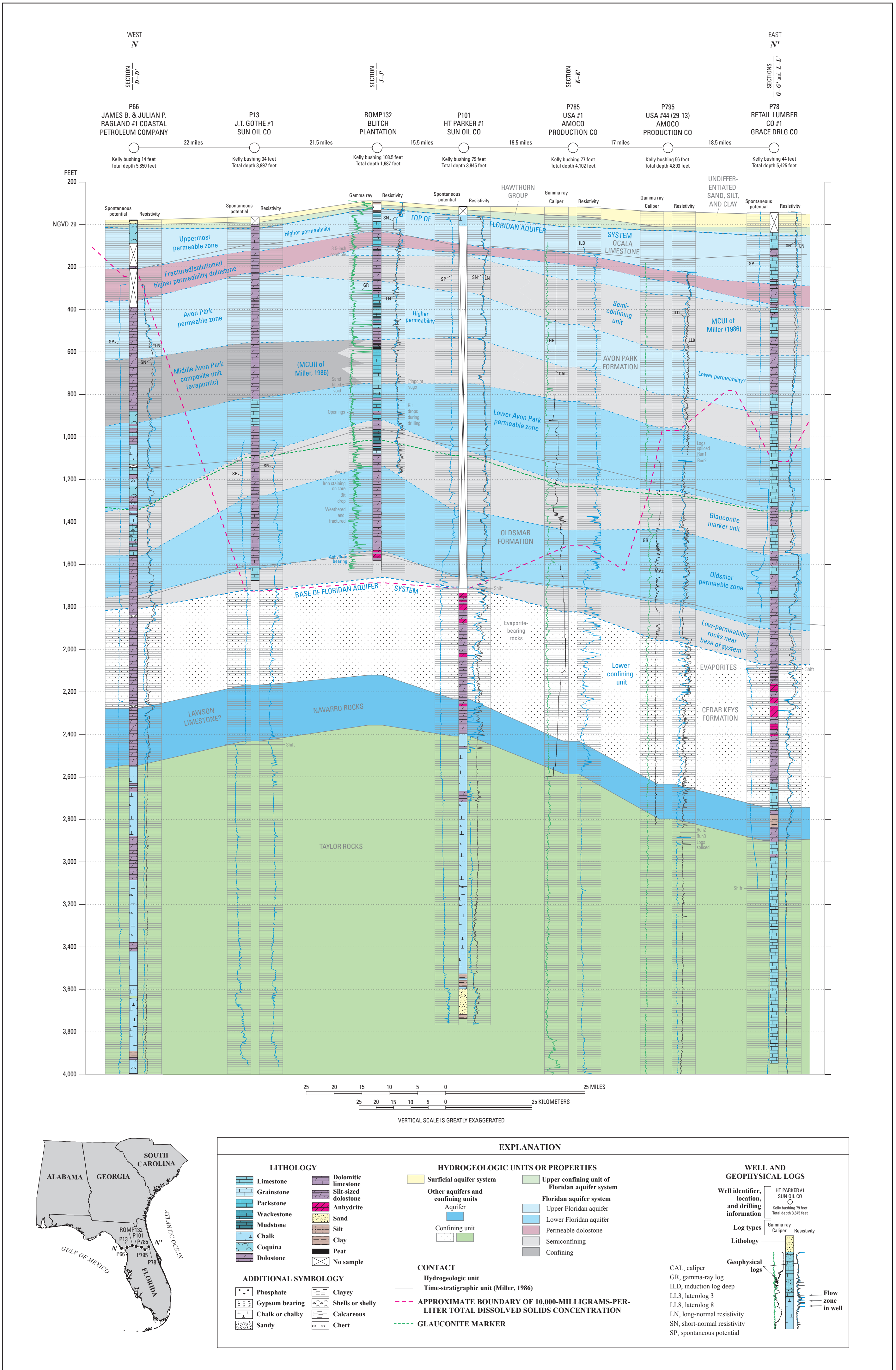
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Generalized Hydrogeologic Cross Section *M–M'* from Brevard County to Miami-Dade County, Florida

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Generalized Hydrogeologic Cross Section N–N' from Levy County to Volusia County, Florida

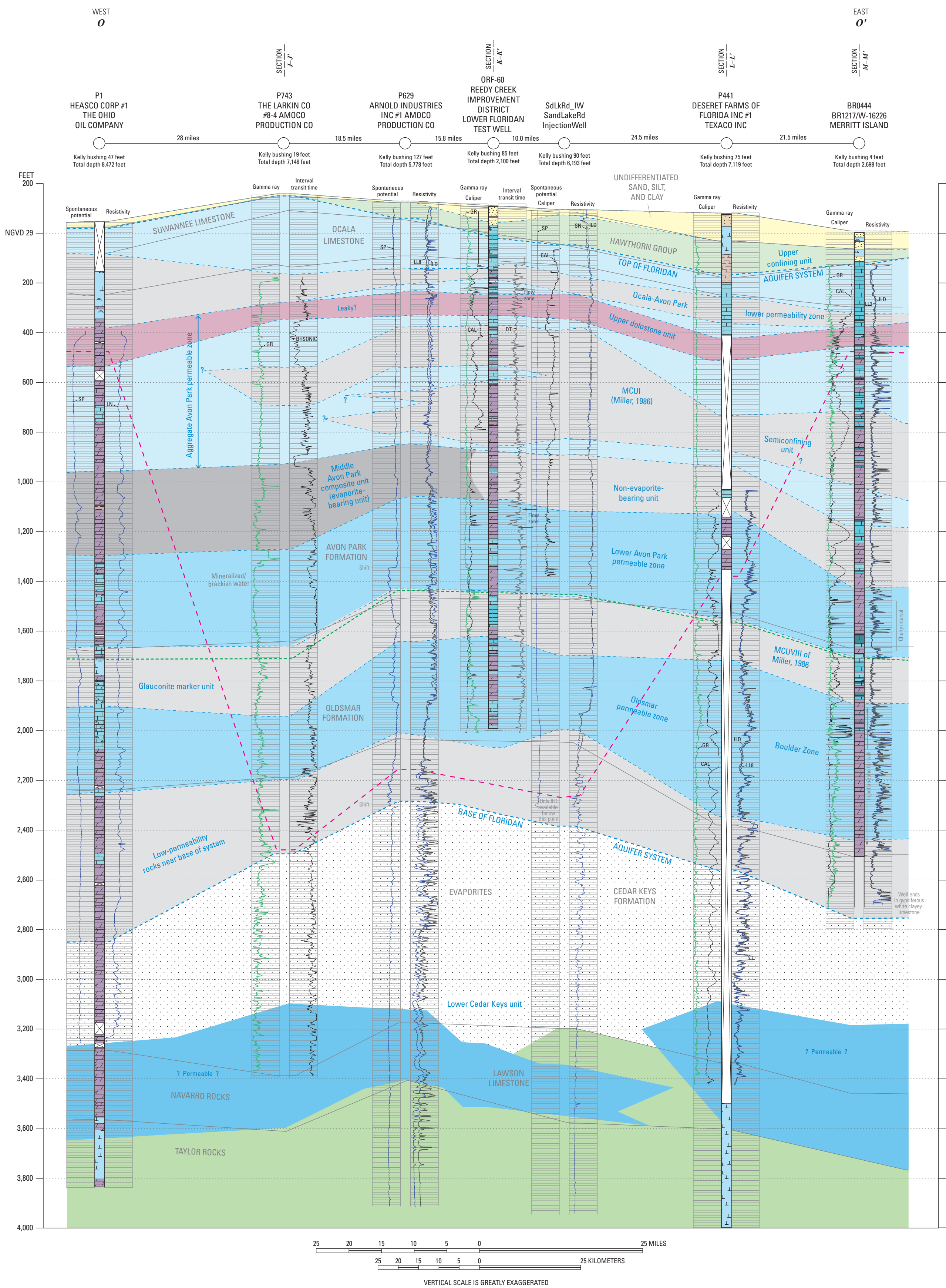
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EXPLANATION

LITHOLOGY - Limestone - Grainstone - Packstone - Wackestone - Mudstone - Chalk - Coquina - Dolostone - Dolomitic limestone - Silt-sized dolostone - Anhydrite dolostone - Sand - Clay - Clayey sand	ADDITIONAL SYMBOLOLOGY - Phosphate - Gypsum bearing - Chalk or chalky - Sandy - Clayey - Shells or shelly - Calcareous - Chert	HYDROGEOLOGIC UNITS OR PROPERTIES - Surficial aquifer system - Other aquifers and confining units - Aquifer - Confining unit - Upper confining unit of Floridan aquifer system - Floridan aquifer system - Upper Floridan aquifer - Lower Floridan aquifer - Leaky? dolostone - Semiconfining - Confining	WELL AND GEOPHYSICAL LOGS Well identifier, location, and drilling information Log types Lithology Geophysical logs BR1217/W-18226 MERRITT ISLAND Kelly casing 4 feet Total depth 2,698 feet Gamma ray Caliper Resistivity Flow zone in well
--	---	--	--

CONTACT

- Hydrogeologic unit
- Time-stratigraphic unit (Miller, 1986)

APPROXIMATE BOUNDARY OF 10,000-MILLIGRAMS-PER-LITER TOTAL DISSOLVED SOLIDS CONCENTRATION

GLAUCONITE MARKER

Generalized Hydrogeologic Cross Section *O–O'* from Hernando County to Orange County, Florida

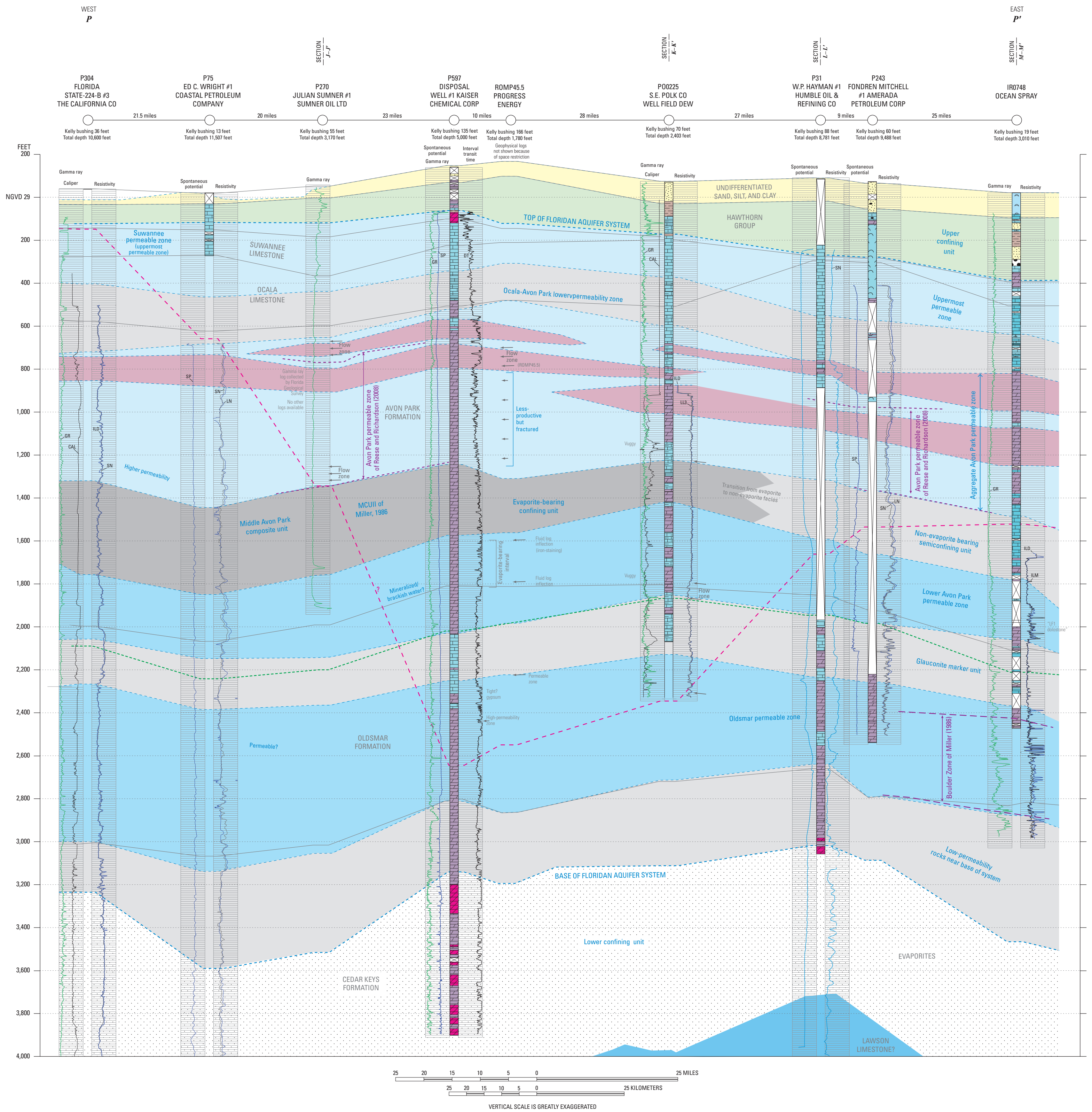
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EXPLANATION			
LITHOLOGY		HYDROGEOLOGIC UNITS OR PROPERTIES	
	Limestone		Surficial aquifer system
	Grainstone		Other aquifers and confining units
	Packstone		Aquifer
	Wackestone		Confining unit
	Mudstone		Upper confining unit of Floridan aquifer system
	Micritic limestone		Floridan aquifer system
	Chalk		Upper Floridan aquifer
	Coquina		Lower Floridan aquifer
	Dolomite		Permeable dolomite
	Dolomitic limestone		Semiconfining
	Anhydrite		Confining
	Sand	CONTACT	
	Clay		Hydrogeologic unit
	No sample		Time-stratigraphic unit (Miller, 1986)
ADDITIONAL SYMBOLOLOGY			
	Phosphate		
	Gypsum bearing		
	Chalk or chalky		
	Sandy		
	Clayey		
	Shells or shelly		
	Calcareous		
	Chert		
WELL AND GEOPHYSICAL LOGS			
Well identifier, location, and drilling information			
Log types			
Lithology			
Geophysical logs			
CAL, caliper			
DT, interval transit time log (sonic)			
GR, gamma-ray log			
ILD, induction log deep			
ILM, induction log medium			
LL3, laterolog 3			
LN, long-normal resistivity			
SN, short-normal resistivity			
SP, spontaneous potential			

Generalized Hydrogeologic Cross Section $P-P'$ from Pinellas County to Indian River County, Florida

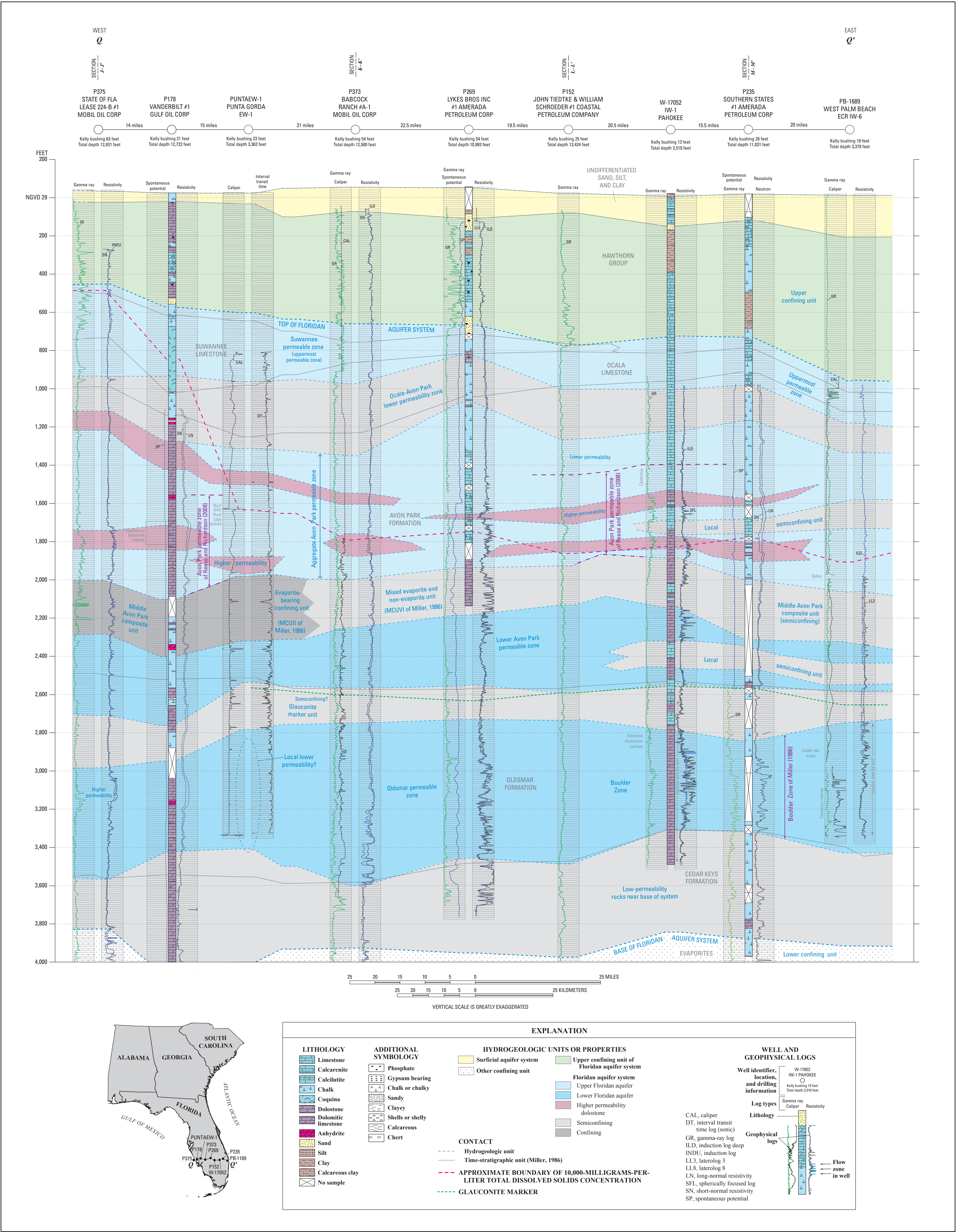
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Generalized Hydrogeologic Cross Section $Q-Q'$ from Charlotte County to Palm Beach County, Florida

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