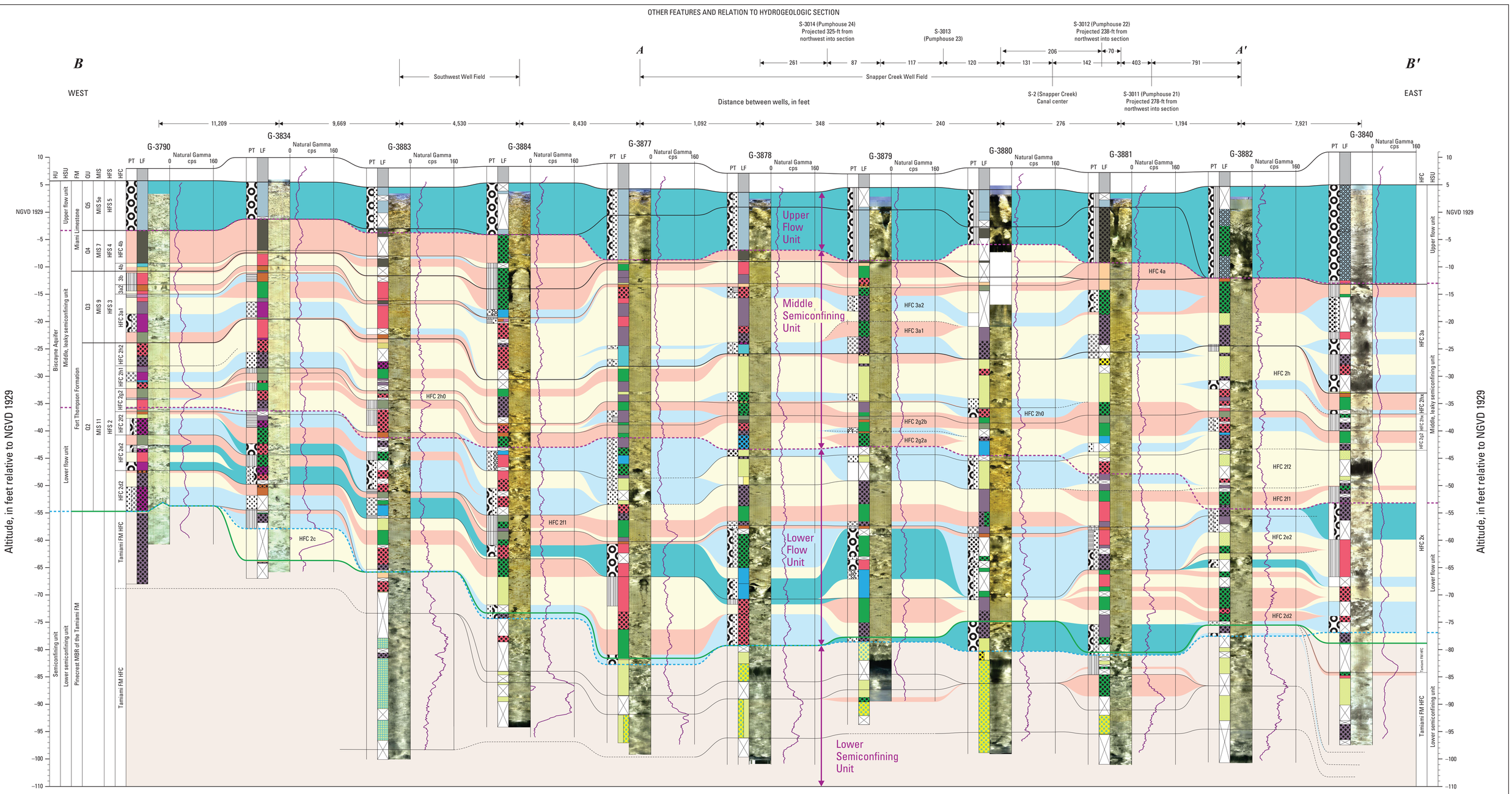
U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the
Miami-Dade County Water and Sewer Department

Scientific Investigations Report 2014-5138
Plate 3 of 3

OTHER FEATURES AND RELATION TO HYDROGEOLOGIC SECTION



EXPLANATION

VERTICAL SCALE GREATLY EXAGGERATED, HORIZONTAL SCALE NOT TO SCALE

Lithofacies

- Peloid packstone/grainstone
- Autobreccia
- Coral boundstone and arenaceous coral boundstone
- Fill
- Ooid grainstone/packstone
- Pedogenic limestone and arenaceous pedogenic limestone
- Pelecypod floatstone/rudstone and arenaceous pelecypod floatstone/rudstone
- No recovery
- Peloid wackestone/packstone and arenaceous peloid wackestone/packstone
- Mudstone/wackestone and arenaceous mudstone/wackestone
- Touching-vug pelecypod floatstone/rudstone and arenaceous touching-vug pelecypod floatstone/rudstone
- *Planorbella* floatstone/rudstone and arenaceous *Planorbella* floatstone/rudstone
- Laminated peloid packstone/grainstone
- Quartz sandstone and skeletal quartz sandstone
- Gastropod floatstone/rudstone and arenaceous gastropod floatstone/rudstone
- Skeletal wackestone/packstone and arenaceous skeletal wackestone/packstone
- Skeletal quartz sand
- Conglomerate and arenaceous conglomerate
- Skeletal packstone/grainstone and arenaceous skeletal packstone/grainstone
- Quartz sand

Miscellaneous

- Base of Biscayne Aquifer
- Hydrologic Boundary
- Stratigraphic boundary--dashed where uncertain
- Top of Tamiami Formation

cps	counts per second
DBI	Digital borehole image
FM	Formation
FZ	Flow zone
HFC	High-frequency cycle
HFS	High-frequency sequence
HU	Hydrogeologic unit
HSU	Hydrogeologic subunit
LF	Lithofacies
MBR	Formation Member
MIS	Marine isotope stage
	Natural gamma ray log
PT	Pore type
QU	Q-unit (Perkins, 1977)
2x	High-frequency nomenclature not yet defined

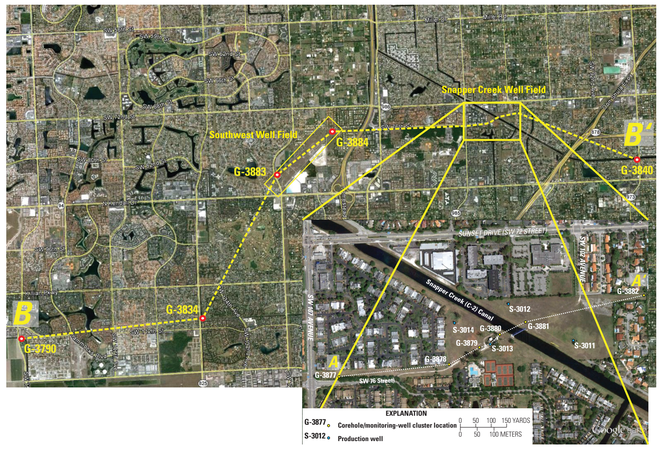
Pore class

Carbonate pore classes of the Fort Thompson Formation and Miami Limestone

- Pore Class III (leaky, low permeability flow)
- Pore Class II (diffuse-carbonate flow, moderate permeability)
- Pore Class Ia (Major FZ of high permeability concentrated flow)
- Pore Class Ib (Minor FZ of high permeability concentrated flow)
- Pore Class II (mixed siliciclastics and carbonates)

Pore types of flow zones

- Irregular vugs
- Bedding plane vugs
- Fossil-moldic vugs
- Vertical solution pipe
- Burrow-related vugs
- Interparticle and intraparticle
- Uncertain



Hydrogeologic Section *B*–*B′* Showing Cyclostratigraphy, Lithology, and Groundwater Pore Classes for the Biscayne Aquifer in Central Miami-Dade County, Florida

By
M.A. Wacker, K.J. Cunningham, and J.H. Williams

2014

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