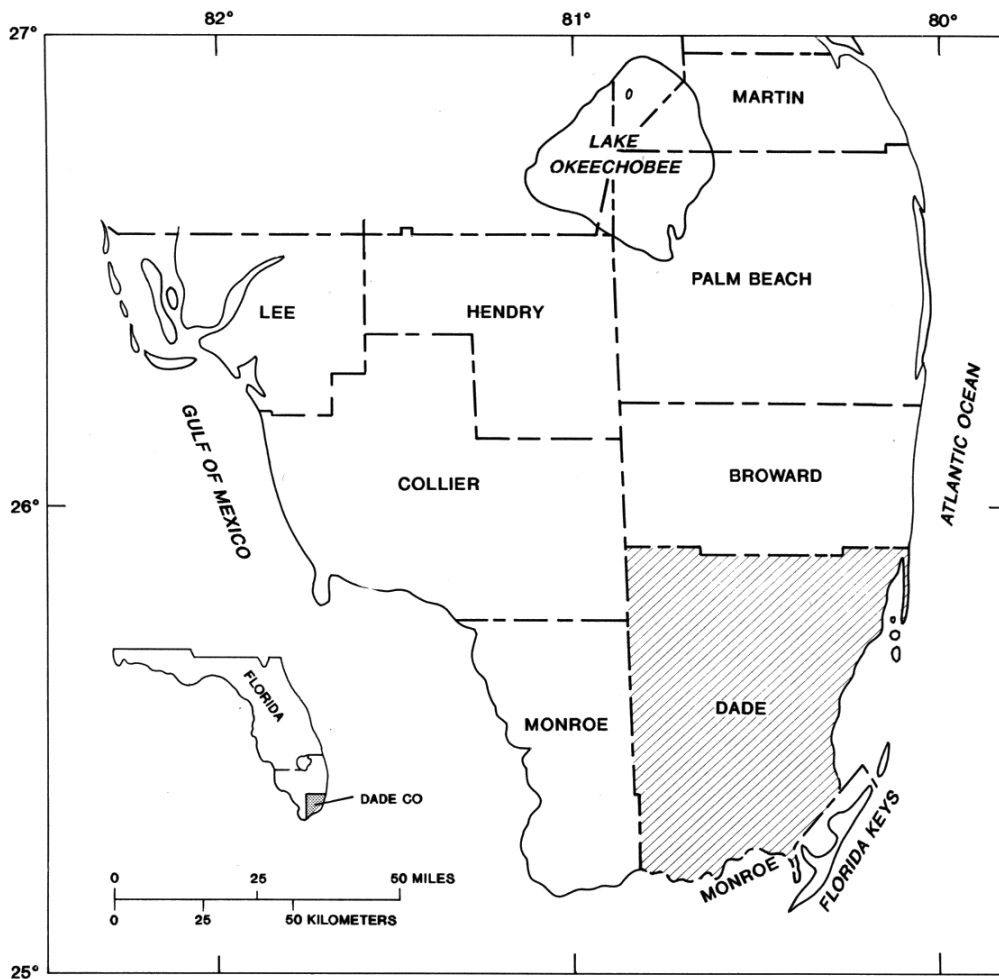


Hydrogeology of the Surficial Aquifer System Dade County, Florida

U.S. GEOLOGICAL SURVEY
Water-Resources Investigations Report 90-4108

Prepared in cooperation with the
SOUTH FLORIDA WATER MANAGEMENT DISTRICT



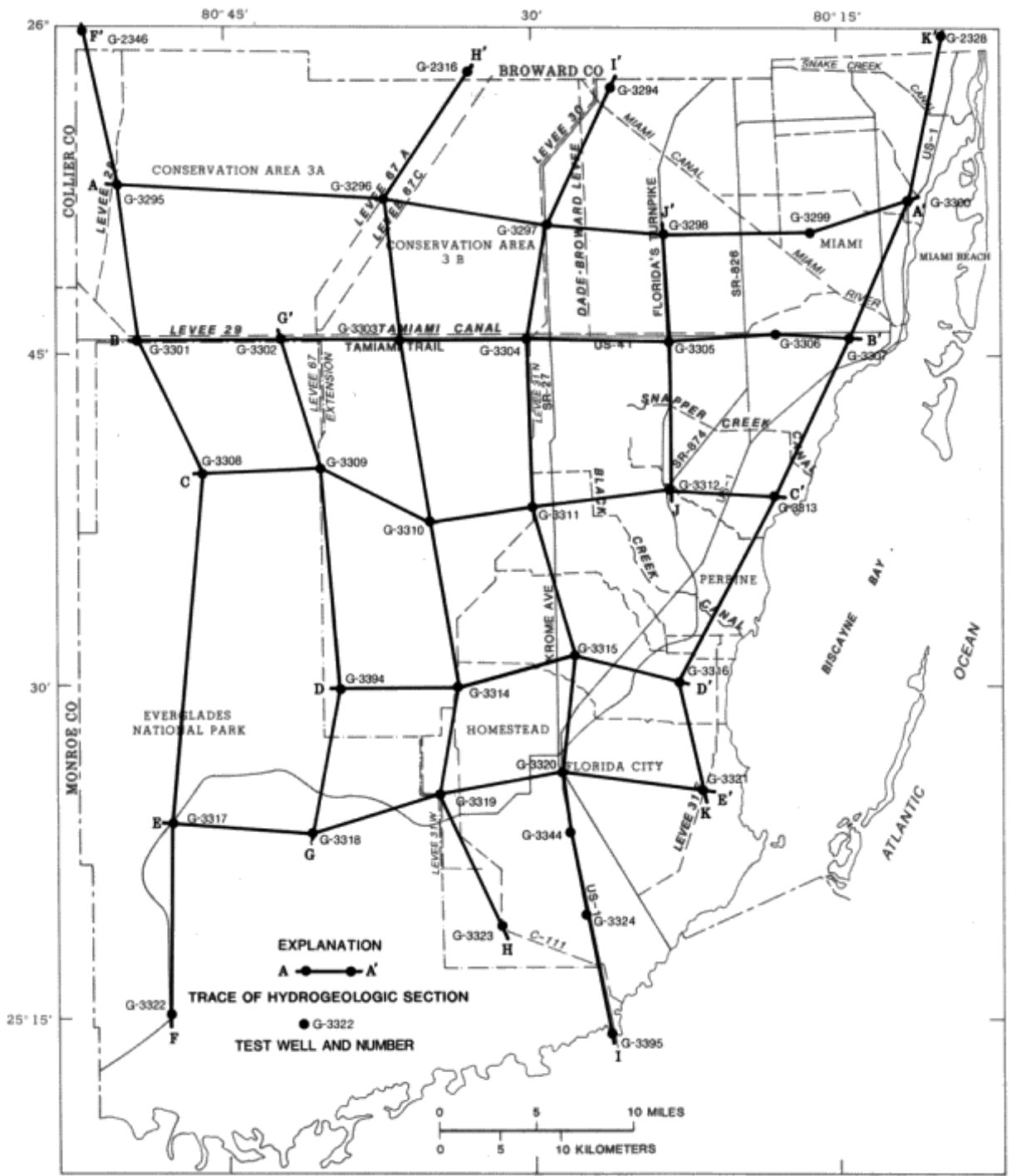
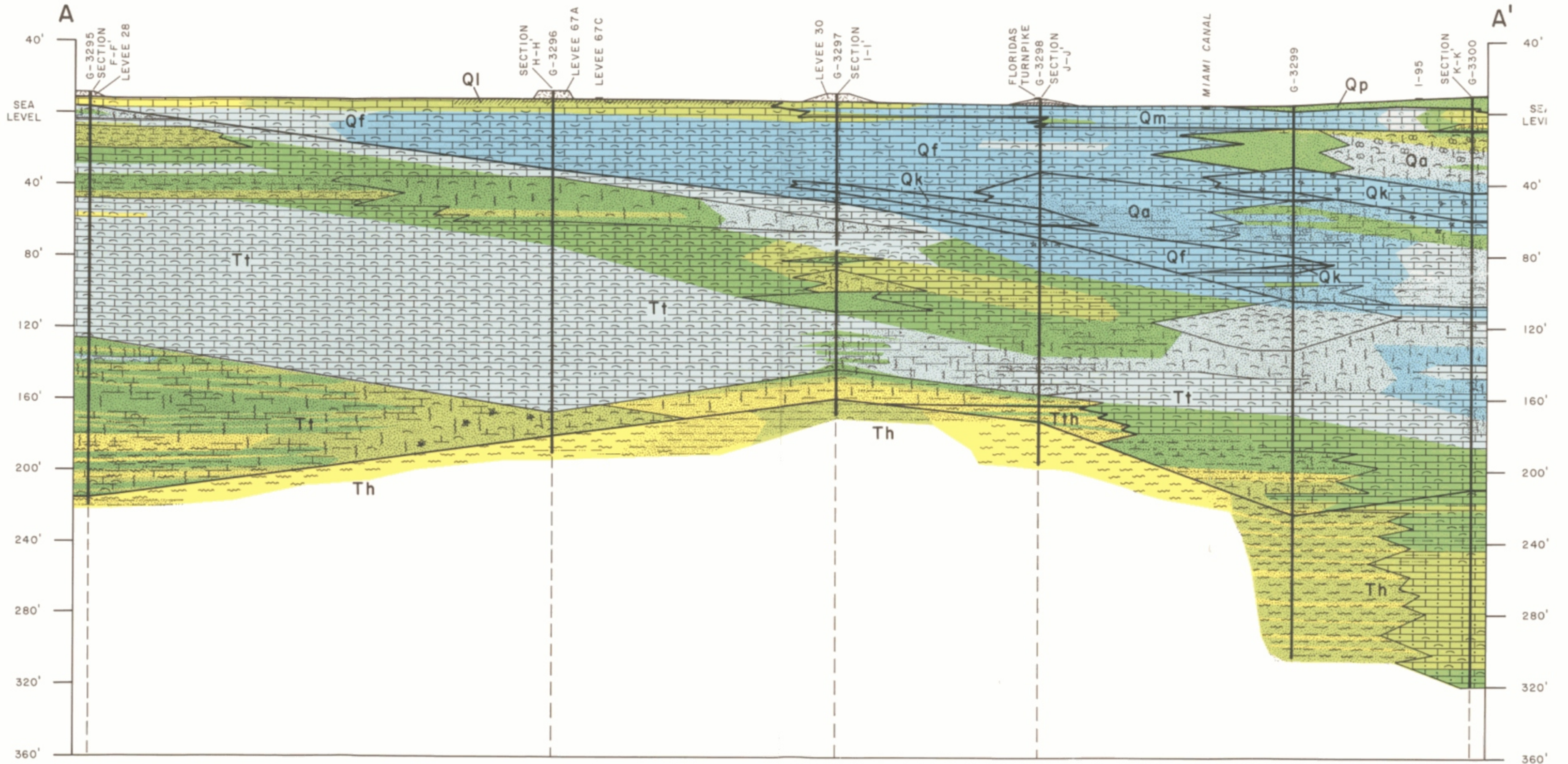


Figure 3. Location of test drilling sites and hydrogeologic sections. Hydrogeologic sections from Causaras (1987). Well numbers and site names are listed in table 1.

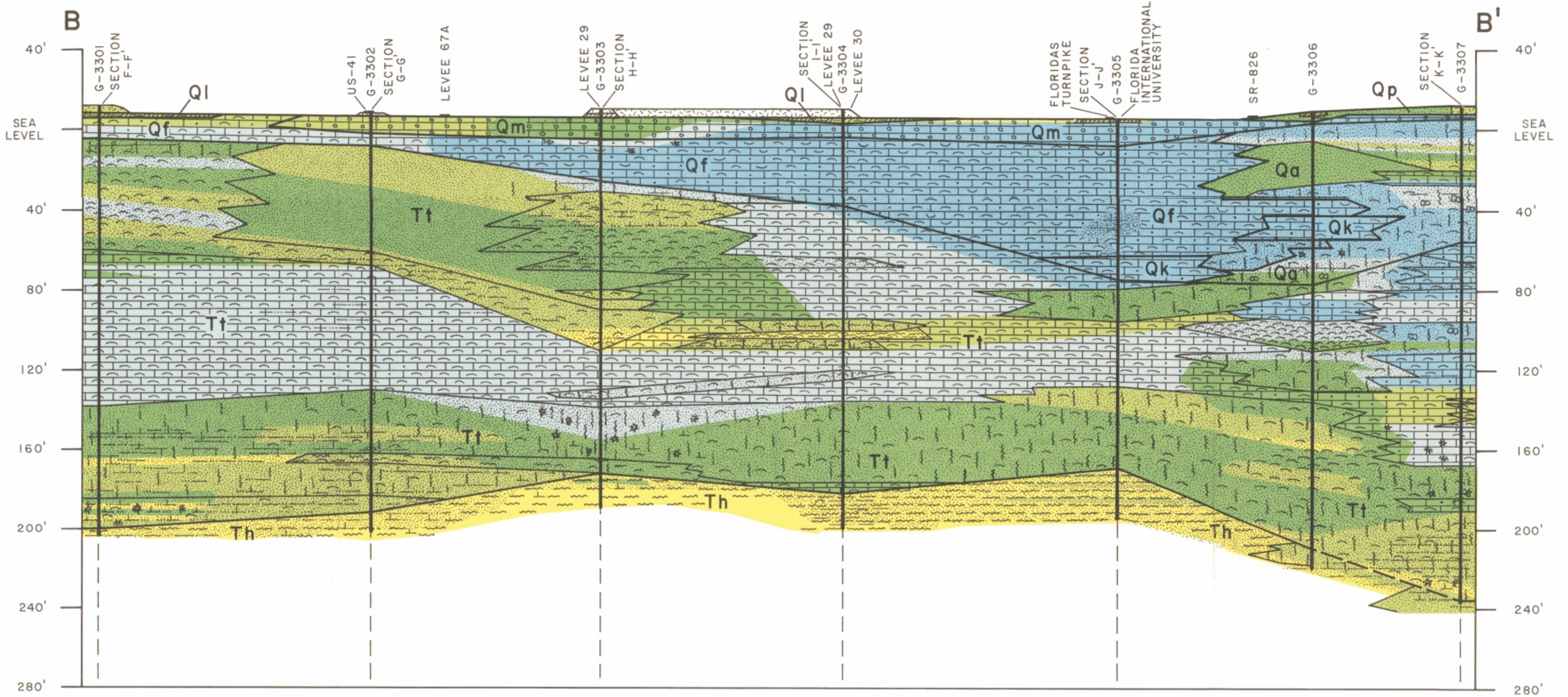


EXPLANATION		GEOLOGIC FORMATIONS		RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY	
	Fill	Ql	Lake Flirt Marl		Greater than or equal to 1,000
	Peat or muck	Qp	Pamlico Sand		100 to 1,000
	Sand	Qm	Miami Oolite		10 to 100
	Sandstone	Qa	Anastasia Formation		0.1 to 10
	Detrital carbonate sand	Qk	Key Largo Limestone		Less than or equal to 0.1
	Rock fragments	Qf	Fort Thompson Formation		
	Concretions	Tt	Tamiami Formation		
	Marine shells	Th	Hawthorn Formation		
	Freshwater shells	Tth	Tamiami Formation and Hawthorn Formation undifferentiated		
	Silt				
	Clay				
	Claystone or siltstone				
	Micrite, lime mud				
	Limestone				
	Oolitic limestone				
	Coralline limestone, biolithite				
					Formation boundary
					Test well and number

0 5 10 MILES
 0 5 10 KILOMETERS
 Vertical Scale Greatly Exaggerated

LINE OF SECTION ON FIGURE 3

HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA



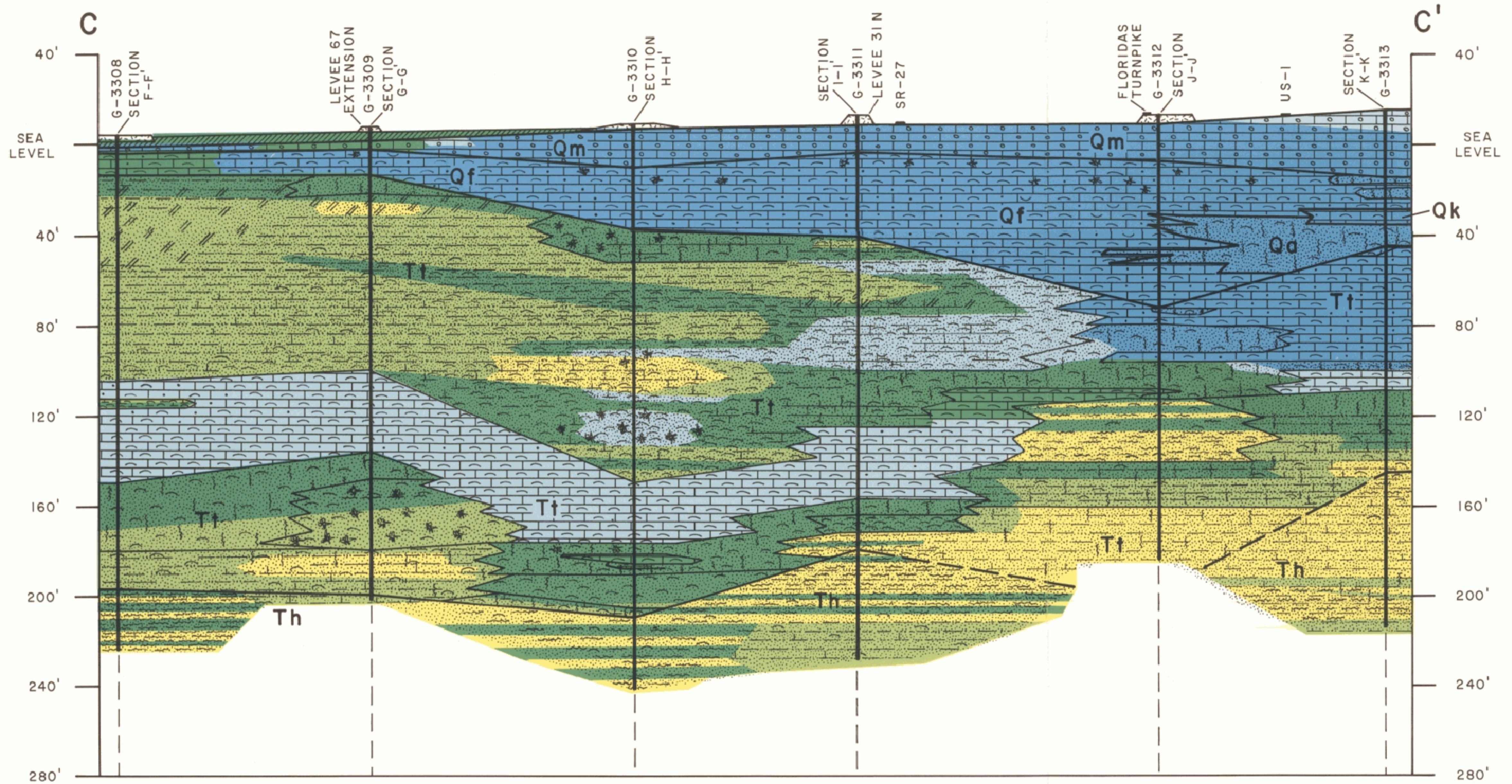
EXPLANATION

<ul style="list-style-type: none"> Fill Peat or muck Sand Sandstone Detrital carbonate sand Rock fragments Concretions Marine shells 	<ul style="list-style-type: none"> Freshwater shells Silt Clay Claystone or siltstone Micrite, lime mud Limestone Oolitic limestone Coralline limestone, biolithite 	<p>GEOLOGIC FORMATIONS</p> <ul style="list-style-type: none"> Ql Lake Flirt Marl Qp Pamlico Sand Qm Miami Oolite Qa Anastasia Formation Qk Key Largo Limestone Qf Fort Thompson Formation Tt Tamiami Formation Th Hawthorn Formation Tth Tamiami Formation and Hawthorn Formation undifferentiated 	<p>RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY</p> <ul style="list-style-type: none"> Greater than or equal to 1,000 100 to 1,000 10 to 100 0.1 to 10 Less than or equal to 0.1
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Formation boundary
 Test well and number
 0 5 10 MILES
 0 5 10 KILOMETERS
 Vertical Scale Greatly Exaggerated

LINE OF SECTION ON FIGURE 3

**HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA**



EXPLANATION

<ul style="list-style-type: none"> Fill Peat or muck Sand Sandstone Detrital carbonate sand Rock fragments Concretions Marine shells 	<ul style="list-style-type: none"> Freshwater shells Silt Clay Claystone or siltstone Micrite, lime mud Limestone Oolitic limestone Coralline limestone, biolithite 	<p style="text-align: center;">GEOLOGIC FORMATIONS</p> <ul style="list-style-type: none"> Ql Lake Flirt Marl Qp Pamlico Sand Qm Miami Oolite Qa Anastasia Formation Qk Key Largo Limestone Qf Fort Thompson Formation Tt Tamiami Formation Th Hawthorn Formation Tth Tamiami Formation and Hawthorn Formation undifferentiated 	<p style="text-align: center;">RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY</p> <ul style="list-style-type: none"> Greater than or equal to 1,000 100 to 1,000 10 to 100 0.1 to 10 Less than or equal to 0.1
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Formation boundary

Test well and number

G-3295

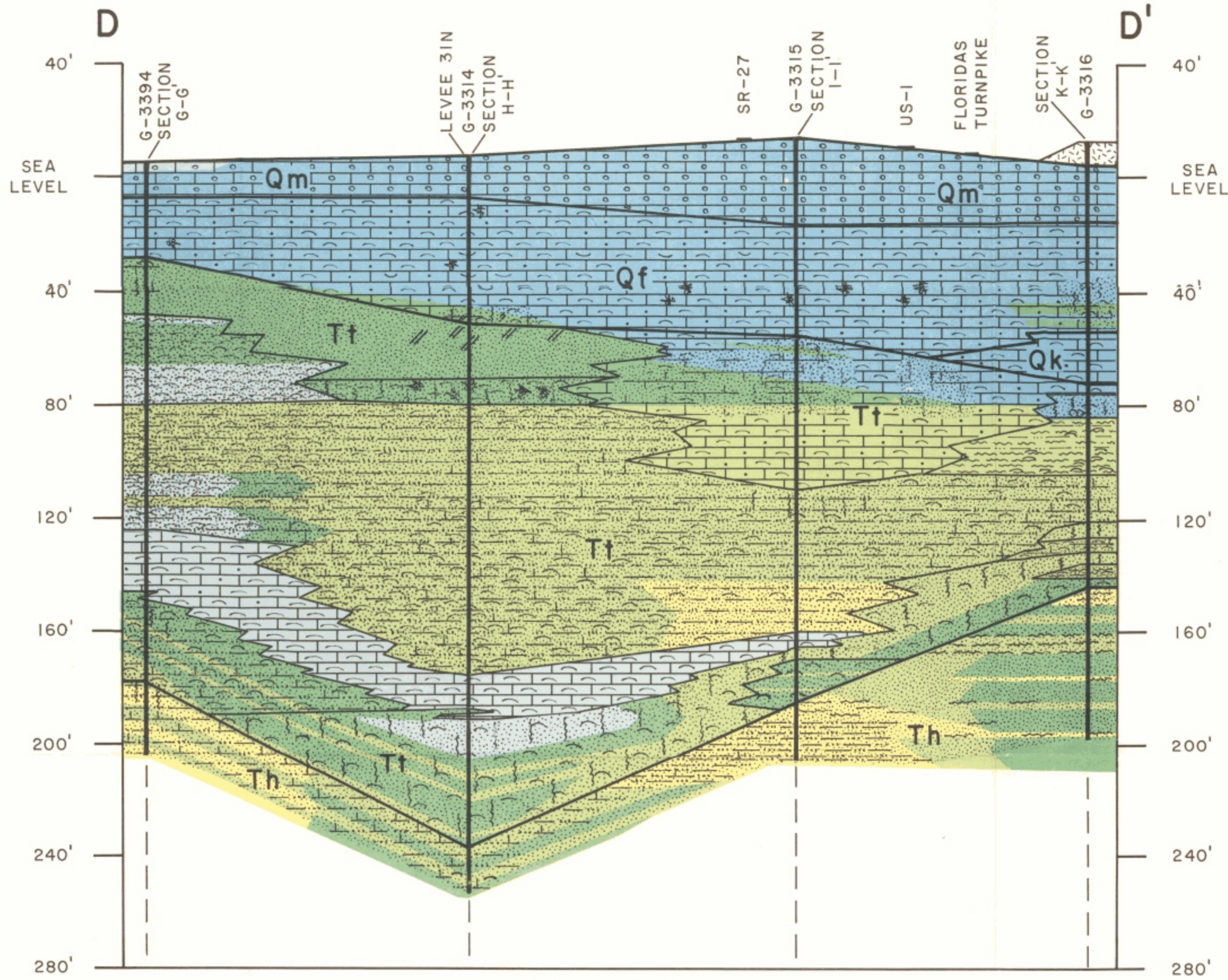
0 5 10 MILES

0 5 10 KILOMETERS

Vertical Scale Greatly Exaggerated

LINE OF SECTION ON FIGURE 3

**HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA**



EXPLANATION

<ul style="list-style-type: none"> Fill Peat or muck Sand Sandstone Detrital carbonate sand Rock fragments Concretions Marine shells 	<ul style="list-style-type: none"> Freshwater shells Silt Clay Claystone or siltstone Micrite, lime mud Limestone Oolitic limestone Coralline limestone, biolithite 	<p style="text-align: center;">GEOLOGIC FORMATIONS</p> <ul style="list-style-type: none"> Ql Lake Flirt Marl Qp Pamlico Sand Qm Miami Oolite Qa Anastasia Formation Qk Key Largo Limestone Qf Fort Thompson Formation Tt Tamiami Formation Th Hawthorn Formation Tth Tamiami Formation and Hawthorn Formation undifferentiated 	<ul style="list-style-type: none"> Formation boundary Test well and number
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0 5 10 MILES

0 5 10 KILOMETERS

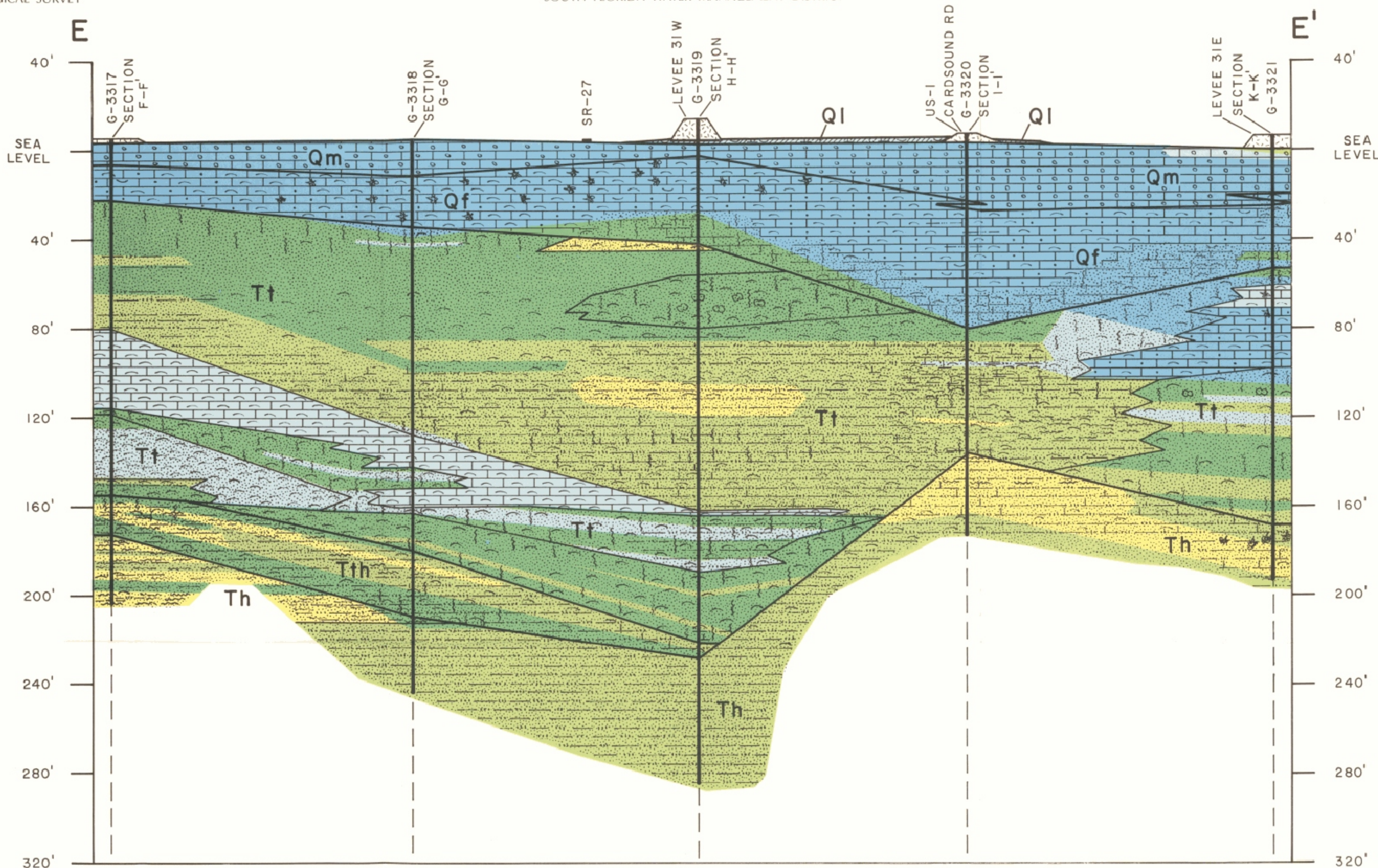
Vertical Scale Greatly Exaggerated

RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY

- Greater than or equal to 1,000
- 100 to 1,000
- 10 to 100
- 0.1 to 10
- Less than or equal to 0.1

LINE OF SECTION ON FIGURE 3

**HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA**



EXPLANATION

- Fill
- Peat or muck
- Sand
- Sandstone
- Detrital carbonate sand
- Rock fragments
- Concretions
- Marine shells

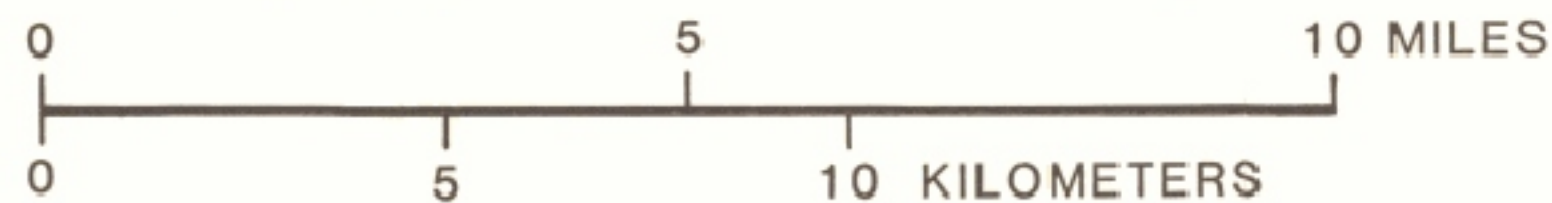
- Freshwater shells
- Silt
- Clay
- Claystone or siltstone
- Micrite, lime mud
- Limestone
- Oolitic limestone
- Coralline limestone, biolithite

GEOLOGIC FORMATIONS

- Ql Lake Flirt Marl
- Qp Pamlico Sand
- Qm Miami Oolite
- Qa Anastasia Formation
- Qk Key Largo Limestone
- Qf Fort Thompson Formation
- Tt Tamiami Formation
- Th Hawthorn Formation
- Tth Tamiami Formation and Hawthorn Formation undifferentiated

Formation boundary

Test well and number



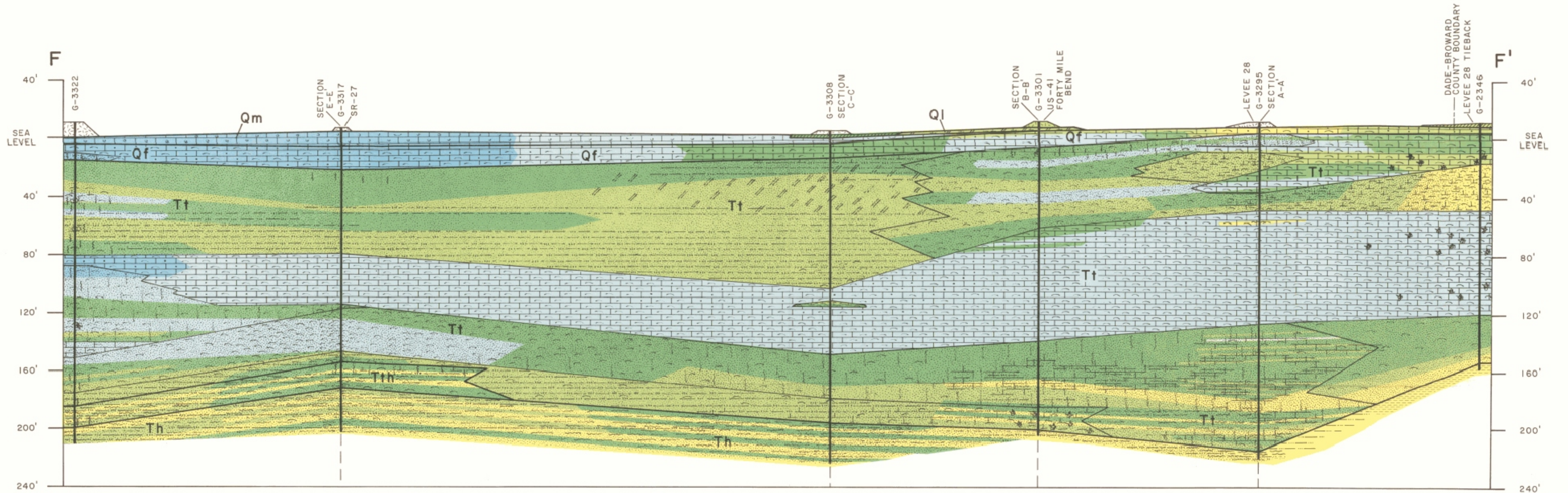
Vertical Scale Greatly Exaggerated

RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY

- Greater than or equal to 1,000
- 100 to 1,000
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- Less than or equal to 0.1

LINE OF SECTION ON FIGURE 3

HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA



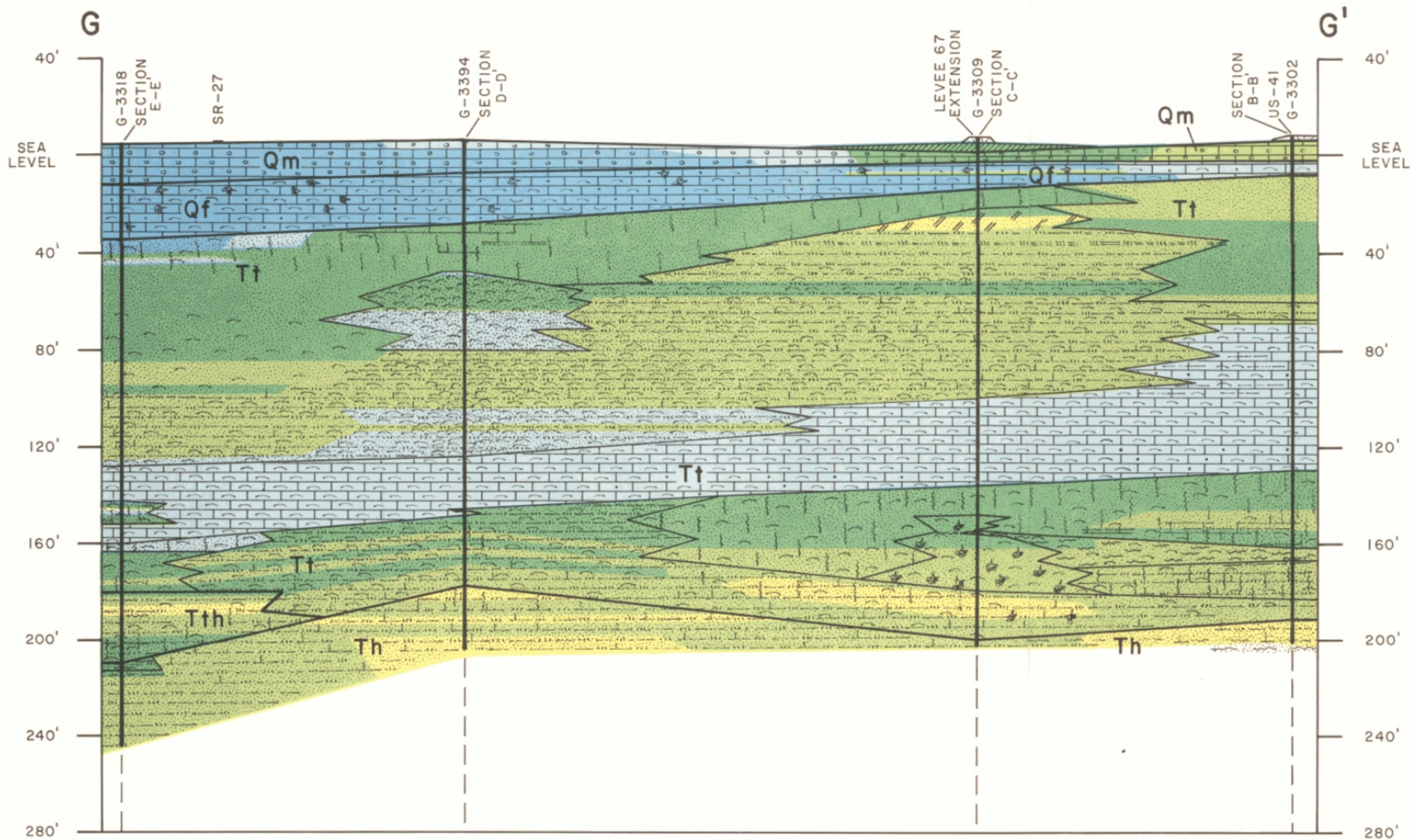
EXPLANATION		GEOLOGIC FORMATIONS		RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY	
	Fill	Ql	Lake Flirt Marl		Greater than or equal to 1,000
	Peat or muck	Qp	Pamlico Sand		100 to 1,000
	Sand	Qm	Miami Oolite		10 to 100
	Sandstone	Qa	Anastasia Formation		0.1 to 10
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	Marine shells	Th	Hawthorn Formation		
	Freshwater shells	Tth	Tamiami Formation and Hawthorn Formation undifferentiated		
	Silt				
	Clay				
	Claystone or siltstone				
	Micrite, lime mud				
	Limestone				
	Oolitic limestone				
	Coraline limestone, biolithite				
					Formation boundary
					Test well and number

Vertical Scale Greatly Exaggerated

0 5 10 MILES
0 5 10 KILOMETERS

LINE OF SECTION ON FIGURE 3

HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA



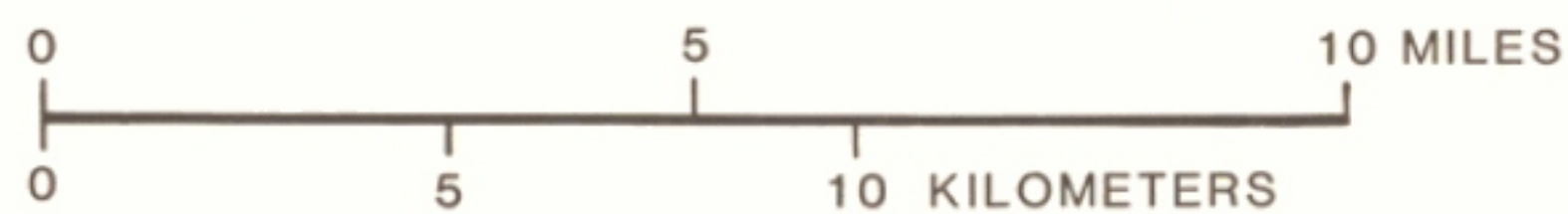
EXPLANATION

GEOLOGIC FORMATIONS

- Ql Lake Flirt Marl
- Qp Pamlico Sand
- Qm Miami Oolite
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Formation boundary

Test well and number



Vertical Scale Greatly Exaggerated

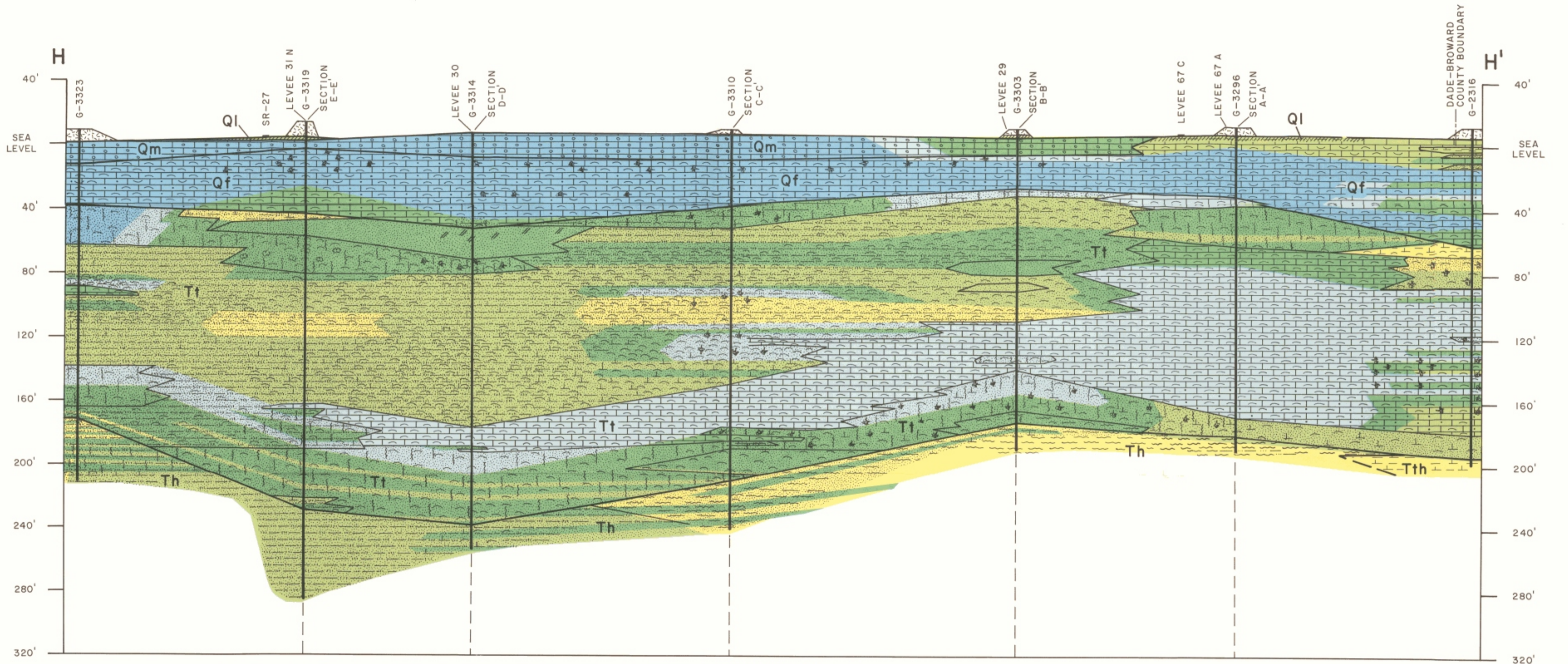
RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY

- Greater than or equal to 1,000
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- Fill
- Peat or muck
- Sand
- Sandstone
- Detrital carbonate sand
- Rock fragments
- Concretions
- Marine shells
- Freshwater shells
- Silt
- Clay
- Claystone or siltstone
- Micrite, lime mud
- Limestone
- Oolitic limestone
- Coralline limestone, biolithite

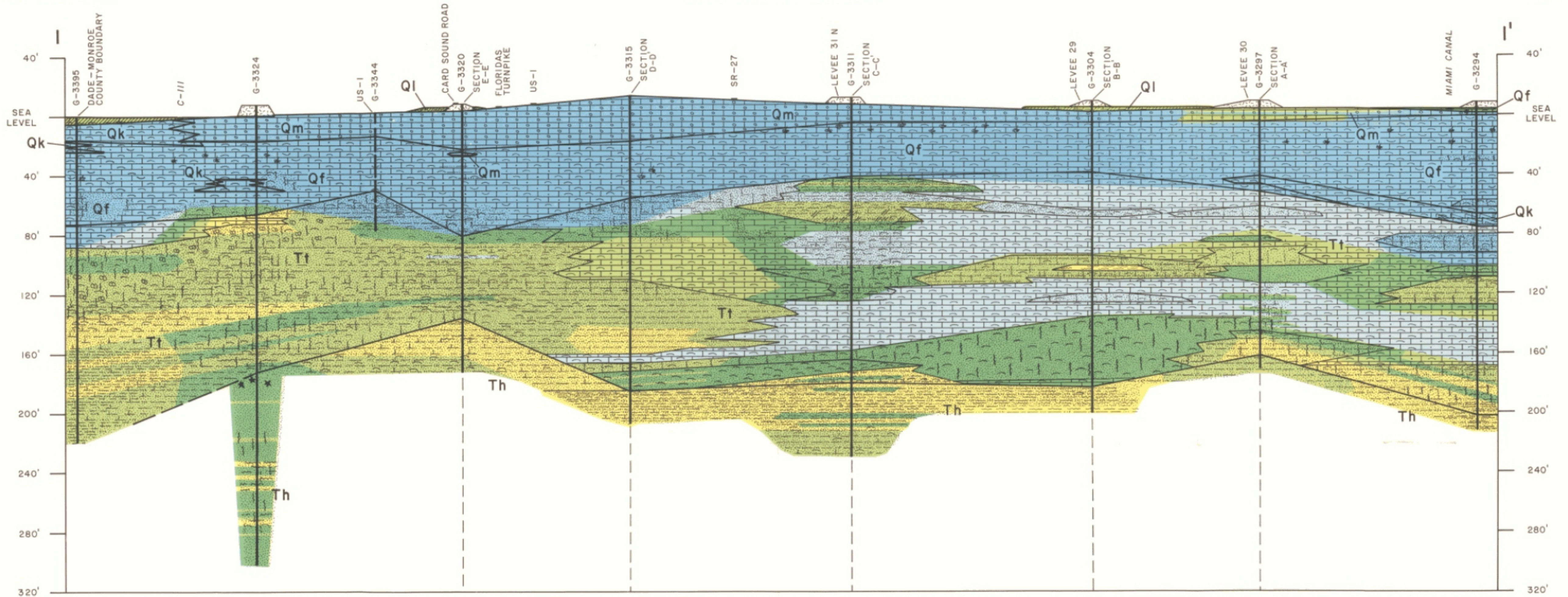
LINE OF SECTION ON FIGURE 3

HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA



EXPLANATION			
	Fill		Freshwater shells
	Peat or muck		Silt
	Sand		Clay
	Sandstone		Claystone or siltstone
	Detrital carbonate sand		Micrite, lime mud
	Rock fragments		Limestone
	Concretions		Oolitic limestone
	Marine shells		Coralline limestone, biolithite
GEOLOGIC FORMATIONS Ql Lake Flirt Marl Qp Pamlico Sand Qm Miami Oolite Qa Anastasia Formation Qk Key Largo Limestone Qf Fort Thompson Formation Tt Tamiami Formation Th Hawthorn Formation Tth Tamiami Formation and Hawthorn Formation undifferentiated			
			Formation boundary
			Test well and number
RANGE OF HYDRAULIC CONDUCTIVITY, IN FEET PER DAY Greater than or equal to 1,000 100 to 1,000 10 to 100 0.1 to 10 Less than or equal to 0.1			
0 5 10 MILES 0 5 10 KILOMETERS Vertical Scale Greatly Exaggerated			
LINE OF SECTION ON FIGURE 3			

HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA



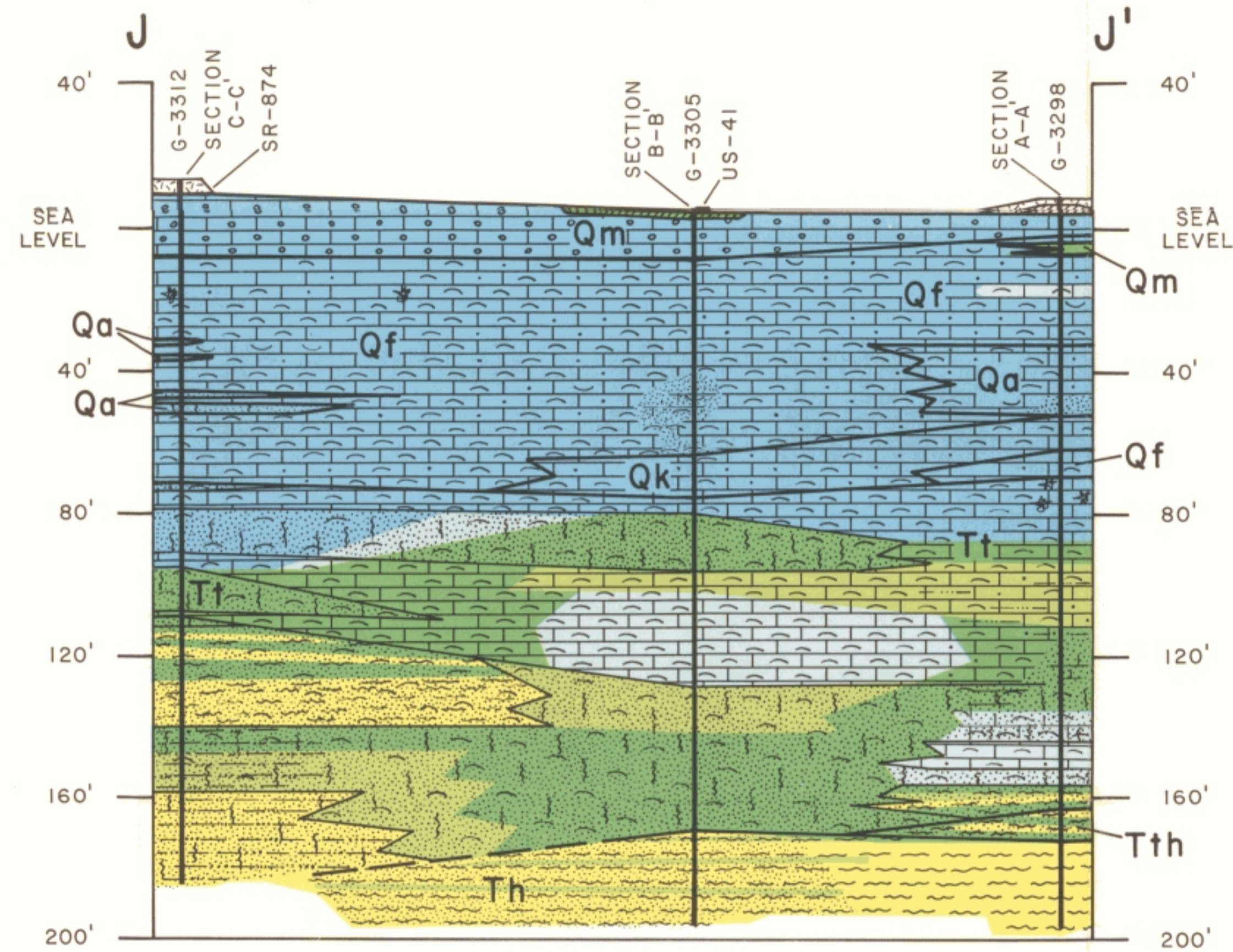
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Vertical Scale Greatly Exaggerated

0 5 10 MILES
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LINE OF SECTION ON FIGURE 3

HYDROGEOLOGY OF THE SURFICIAL AQUIFER SYSTEM,
DADE COUNTY, FLORIDA



EXPLANATION

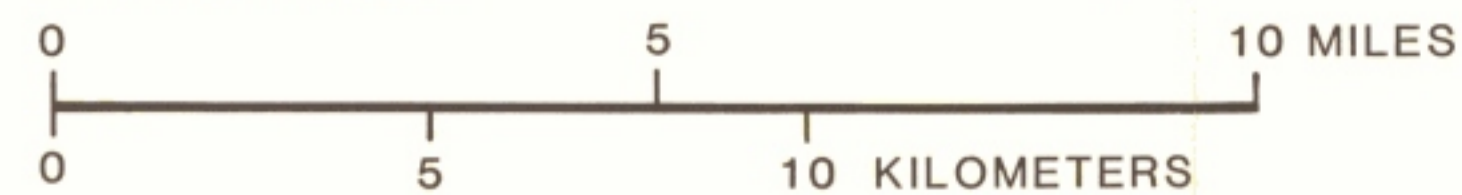
- | | | | |
|--|-------------------------|--|---------------------------------|
| | Fill | | Freshwater shells |
| | Peat or muck | | Silt |
| | Sand | | Clay |
| | Sandstone | | Claystone or siltstone |
| | Detrital carbonate sand | | Micrite, lime mud |
| | Rock fragments | | Limestone |
| | Concretions | | Oolitic limestone |
| | Marine shells | | Coralline limestone, biolithite |

GEOLOGIC FORMATIONS

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- Qp Pamlico Sand
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- Tth Tamiami Formation and Hawthorn Formation undifferentiated

Formation boundary

Test well and number



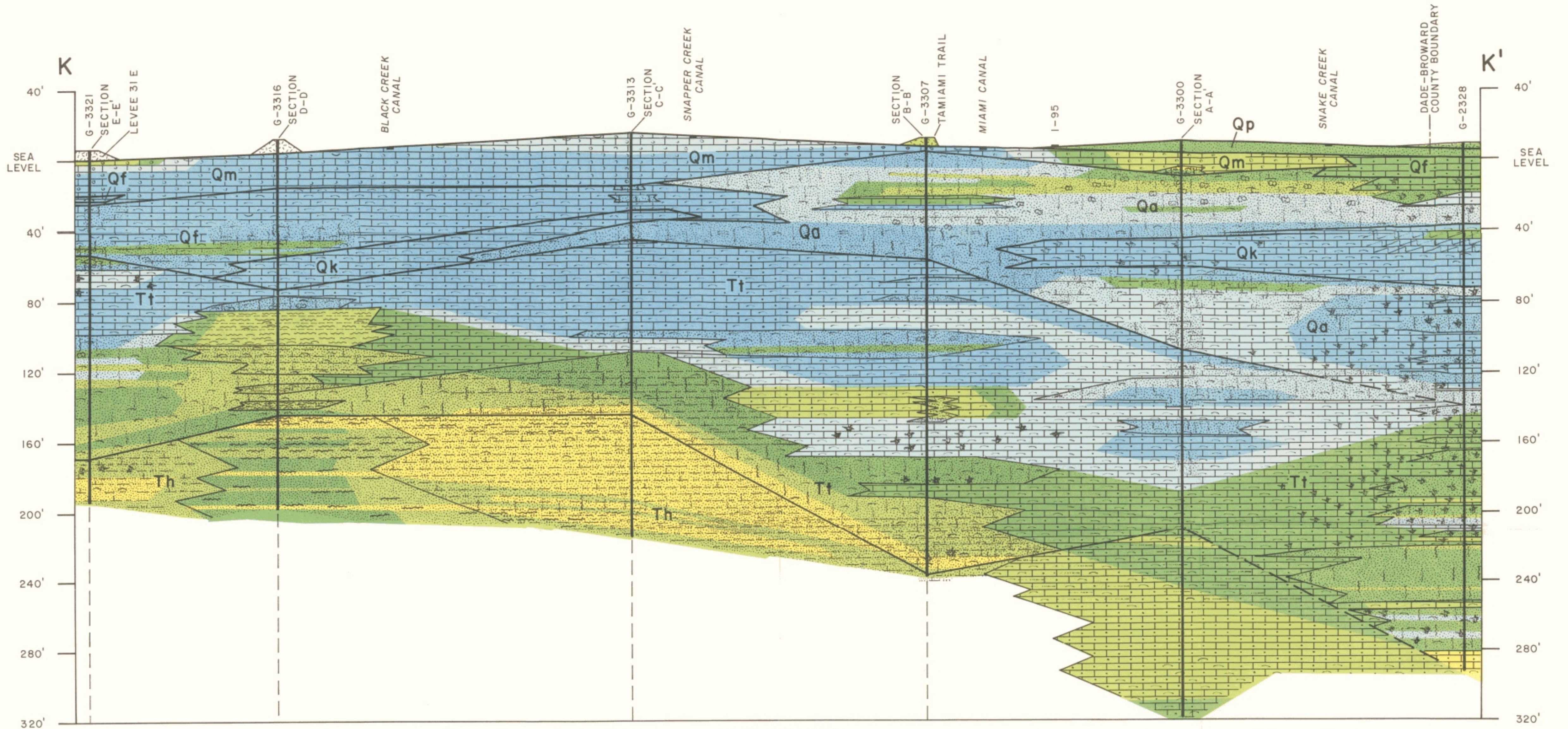
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DADE COUNTY, FLORIDA



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	Coralline limestone, biolithite				
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Vertical Scale Greatly Exaggerated

LINE OF SECTION ON FIGURE 3

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DADE COUNTY, FLORIDA**