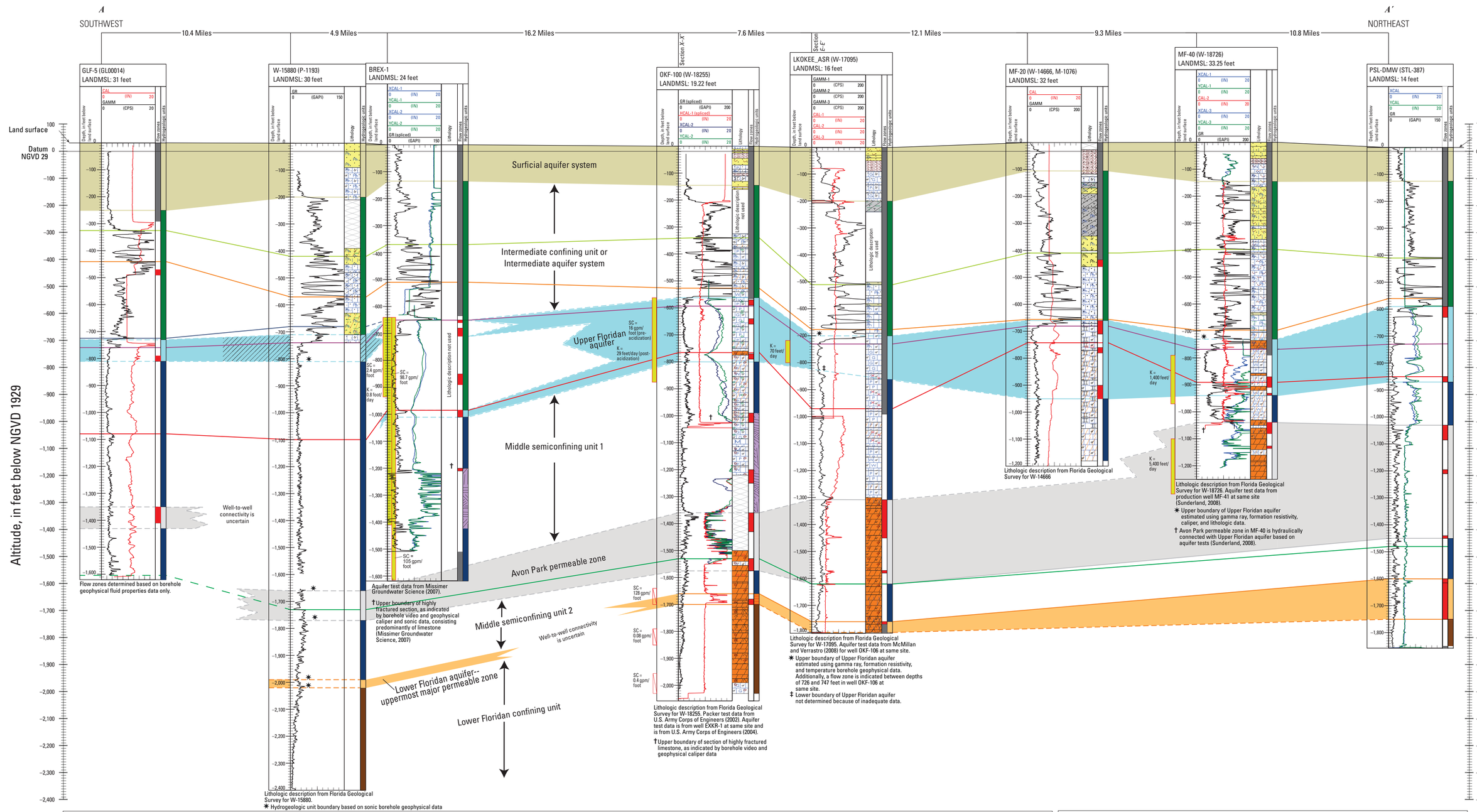
U.S. Department of the Interior
U.S. Geological Survey

Prepared in cooperation with the
U.S. Army Corps of Engineers

Scientific Investigations Map 3288
Sheet 1 of 8
Pamphlet accompanies map



EXPLANATION

Hydrogeologic unit

- Surficial aquifer system
- Intermediate confining unit
- Upper Floridan aquifer
- Upper Floridan aquifer - presence of groundwater production uncertain
- Middle semiconfining unit
- Section of permeable, fractured limestone that may or may not be connected to permeable zone below
- Avon Park permeable zone
- Lower Floridan aquifer--uppermost major permeable zone
- Lower Floridan confining unit

Hydrogeologic unit boundaries

- Surficial aquifer system
- Upper Floridan aquifer--dashed where location is uncertain
- Avon Park permeable zone--dashed where location is uncertain
- Lower Floridan aquifer, uppermost major permeable zone--dashed where location is uncertain

Lithostratigraphic unit upper boundaries

- Arcadia Formation
- Lower Arcadia Formation marker horizon
- Suwannee Limestone--dashed where location is uncertain
- Ocala Limestone
- Avon Park Formation
- Lower Avon Park Formation marker horizon--dashed where location is less certain

Lithology

Quartz sand; Silt or siltstone; Clay or claystone; Shell bed; Limestone; Grainstone; Packstone; Wackestone; Mudstone; No sample; Dolomite; Calcareous dolomite; Dolomitic limestone; Dolosilt; No data or lithologic description not used

Heavier black horizontal lines define sample description intervals. Other regularly spaced horizontal lines are part of repeated lithologic symbols, such as in limestone or dolomite

Accessory lithologic components or modifiers

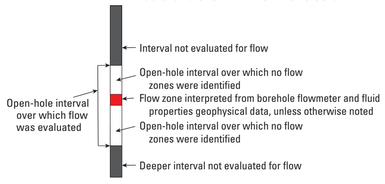
Sandy; Silty; Clayey; Calcareous; Shells; Dolomitic; Fossils or fossiliferous; Micritic; Phosphatic (trace or minor); Phosphate (common or abundant; greater than 10%); Sucrosic; Moldic porosity; Vuggy porosity; Crystals or crystalline; Anhydrite; Gypsum

Borehole geophysical data curves

Abbreviation for geophysical tool or device	Description	Unit of measure	Description
GR (spliced)[1]	Gamma ray	GAPI	American Petroleum Institute Standard Units
GAMM	Gamma ray	cps	Counts per second
CAL or HCAL	Caliper	in.	Inch
XCAL-1[2] and YCAL-1[2]	X-caliper and Y-caliper (both on same tool and 90 degrees apart)	in.	Inch

[1] (Spliced) indicates more than one data collection interval is included in the curve. If intervals overlap, splicing was done at the greatest depth of the upper interval.
[2] Number indicates separate data collection intervals with number increasing with depth

Flow zones evaluated in open-hole intervals using borehole flowmeter and fluid properties geophysical data and shown in flow zone column



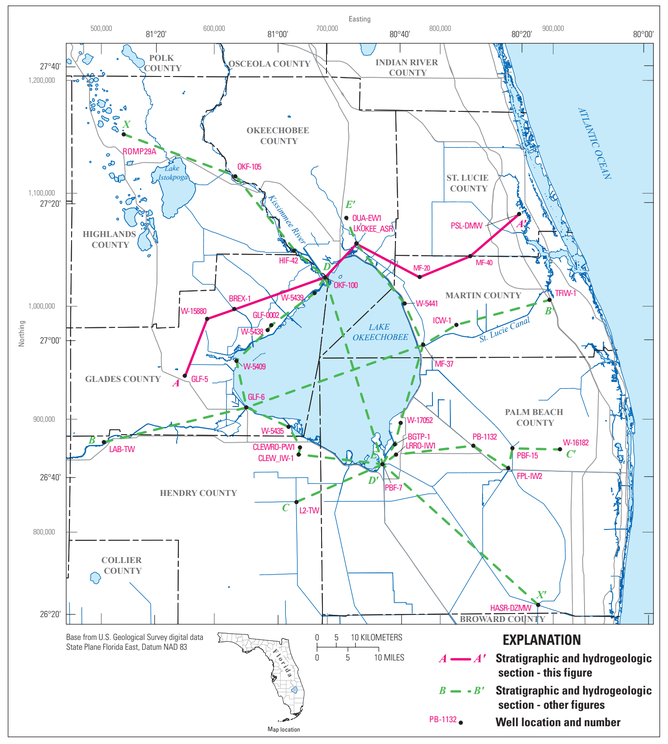
Hydraulic test data shown on left side of well plots

SC = 128 gpm/foot — Packer test interval and result. Test is done using drill pipe. SC is specific capacity, in gallons per minute per foot of drawdown

K = 70 feet/day — Aquifer test interval and result. Test is done of open interval below casing. K is hydraulic conductivity, in feet per day. Values are calculated from transmissivity and thickness of open interval in production well

LANDMSL **Altitude of land surface, in feet above NGVD 1929**

0 1.5 3.0 MILES
0 1.5 3.0 KILOMETERS



EXPLANATION

- *A* — *A′* Stratigraphic and hydrogeologic section - this figure
- *B* — *B′* Stratigraphic and hydrogeologic section - other figures
- PB-1132 Well location and number

Stratigraphic and hydrogeologic section *A–A′*

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2014

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