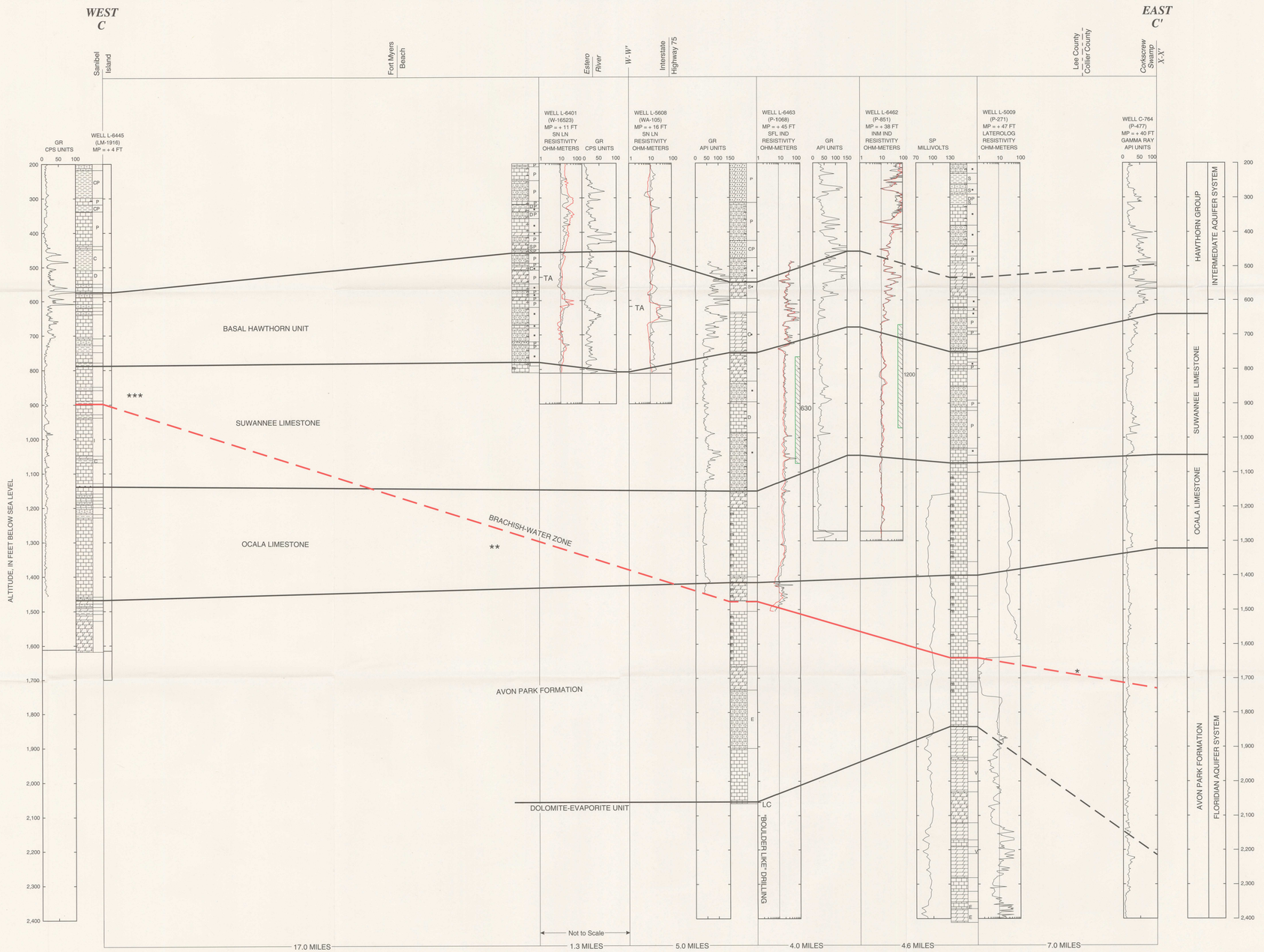
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

WATER-RESOURCES INVESTIGATIONS REPORT 98-4253
Hydrogeologic section *C-C'* – Plate 3
Reese, R.S. 2000, Hydrogeology and the Distribution of Salinity in the Floridan Aquifer System, Southwestern Florida



0 1 2 3 4 5 MILES
0 1 2 3 4 5 KILOMETERS

VERTICAL SCALE: GREATLY EXAGGERATED

GENERAL EXPLANATION

- Correlation or formation boundary. Dashed line indicates position is uncertain or inferred
- Base of the brackish-water zone. Defined as zone with less than 10,000 milligrams per liter dissolved solids (5,240 milligrams per liter chloride concentration). Dashed line indicates position is uncertain or inferred
- End of log run interval for multiple log runs or total well depth
- MP — Altitude of measuring point, in feet above sea level
- Resistivity curves: Black curve is for shallow depth of investigation resistivity. Red curve is for deep depth of investigation resistivity.
- CPS — Counts per second
- API — American Petroleum Institute standard for gamma ray
- GR — Gamma ray curve
- SP — Spontaneous potential curve
- IND — Deep induction resistivity curve
- INM — Medium induction resistivity curve
- LL — Medium or deep laterolog resistivity curve
- LL3 or LL8 — Shallow laterolog resistivity curve
- SFL — Spherically focused resistivity curve
- LN — Long normal resistivity curve
- SN — Short normal resistivity curve
- SPR — Single point resistance curve
- TA — Temperature log anomally (only the first one encountered with increasing depth)
- WF — Water flow encountered during drilling
- LC — Lost circulation or returns during drilling

LITHOLOGIC EXPLANATION

Rock Types

- Limestone
- Sandy limestone
- Dolomitic limestone or Limestone with interbedded dolomite
- Clayey limestone
- Dolomite
- Sandy dolomite
- Shell bed
- Gravel
- Sand
- Clayey sand
- Silt
- Clay
- Evaporite
- No sample

Accessories

- S — Sandy
- C — Calcareous or interbedded limestone
- D — Dolomitic, includes limestone with trace to minor dolomite
- I — Interbedded clay or clayey
- E — Evaporitic
- * — Phosphate grains, trace to 3%
- P — Phosphate grains, common to abundant (>3%)
- O — Cavities
- V — Vugs
- J — Fossiliferous (macrofossils)
- m — Microfossils common

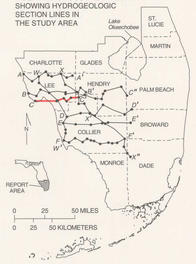
EXPLANATION FOR WATER-QUALITY DATA

1,200 — Geophysical log evaluation interval

WATER-QUALITY DATA--Number is chloride concentration of water samples collected or if intervals calculated, in milligrams per liter, (See table 5 in report for additional information on these analyses).

- * Position projected from well HE-1104 on *C*-*C'*
- ** No data available for determination of top of saline-water zone
- *** Depth of base of brackish-water zone in well L-6445 based on water--quality data collected while drilling with reverse-air rotary

INDEX MAP OF SOUTHERN FLORIDA SHOWING HYDROGEOLOGIC SECTION LINES IN THE STUDY AREA



HYDROGEOLOGIC SECTION *C-C'*

By
Ronald S. Reese

2000

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—2001