

**EXPLANATION**

Loose quartz sand of Pleistocene age not shown. Sands cover the entire quadrangle. Units shown below are exposed only in the channels of the Hillsborough River and Blackwater Creek

**Pliocene**

**Bone Valley formation**  
Tbu, upper part; white or gray clayey sand, traces of phosphate  
Tbl, lower part; phosphorite: sand, clay, and gravel, containing abundant phosphate

**UNCONFORMITY**

**Miocene**

**Hawthorn formation**  
Limestone, dolomite, or calcareous clay. Minor amounts of brown sandy clay. Some phosphate

**CONTACT RELATIONS UNCERTAIN**

**Oligocene**

**Tampa limestone**  
Impure limestone and calcareous sandy clay, with chert nodules and traces of phosphate

**UNCONFORMITY**

**Suwannee limestone**  
Limestone, minor amounts of impurities; no phosphate

**Contact**  
Dashed where approximately located; short dashed where inferred

**Limits of the lower phosphorite unit of the Bone Valley formation (subsurface)**  
Hachures point to areas where the lower unit is absent

**cD1**  
Drill hole  
Location of drill hole listed on table 3, discussed in text and used in sections

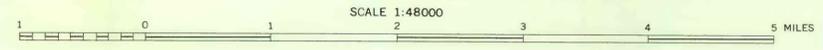
**3** ● **Figure 8** ● **4**  
Section, showing location of drill holes  
See indicated figures

TERTIARY

Base by Topographic Division  
U. S. Geological Survey



**GEOLOGIC MAP OF THE PLANT CITY QUADRANGLE, FLORIDA**



Compiled by J. B. Cathcart, 1958, from drilling data, gamma logs, and surface mapping. Northwest part modified from Carr and Alverson (1959)