



DIAGRAM SHOWING CENOZOIC ROCKS IN PARTS OF POLK AND HARDEE COUNTIES, FLORIDA

Horizontal Scale: 1 inch = 2 miles  
0 1 2 3 4 5 6 7 8 9 10 Miles

Datum is mean sea level  
1955

EXPLANATION	
Recent (in part)	<p>surficial sand Sand, quartz, loose, massive; probably partly Recent wind deposit and partly residual; position of contact uncertain in places.</p>
	<p>calcareous sand Possibly equivalent to Bone Valley formation.</p>
Upper Miocene (?)	<p>Haines City sand (coarser-grained member) Sand, quartz, clayey, generally medium-grained, white to brown.</p>
	<p>Haines City sand (finer-grained member) Sand, quartz, clayey, very fine-grained to fine-grained, white, locally dark green; local concentrations of phosphorite nodules in lower part (see site 54).</p>
Middle Miocene	<p>Hawthorn formation (sand unit) Sand, quartz, fine-grained, gray to brown; interstitial secondary phosphates; more radioactive than Haines City sand (gamma-ray logs not shown); position of upper contact uncertain.</p>
	<p>Hawthorn formation (phosphorite unit) Sand, quartz and phosphorite, clayey, gray to brown; quartz sand fine-grained; phosphorite nodules range up to pebble size.</p>
Eocene and Miocene	<p>Hawthorn formation (limestone unit) Limestone, clayey, sandy; phosphorite nodules range up to pebble size.</p>
	<p>Tampa limestone (limestone unit) Limestone, clayey, sandy; phosphorite nodules of sand size.</p>
	<p>Ocala limestone Limestone, pure.</p>

