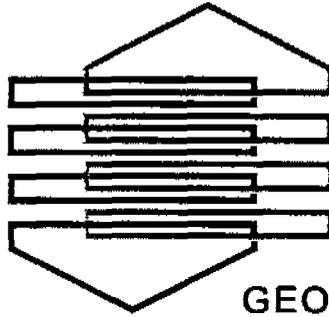


Thermal Conductivity Test Report

# Thermal Test



**Ewbank**  
and associates

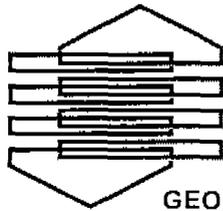
GEO SYSTEMS PROFESSIONALS

*Bank of Blairsville  
Blairsville, Georgia*

*Thermal Test*

*Earth Energy Engineering*

Ewbank and Associates  
P.O. Box 148  
Fairview, Oklahoma 73737  
580-227-3352



**Ewbank  
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GEO SYSTEMS PROFESSIONALS

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**Thermal Conductivity Test Results  
Bank of Blairsville  
Blairsville, Georgia**

Earth Energy Engineering performed a thermal conductivity test at the Bank of Blairsville in Blairsville, Georgia on February 15, 2001. Testing was done by Fred Allison with a Ewbank portable test unit.

The test borehole was 300 feet in depth and 6" in diameter. A 1" inch loop was installed and the borehole was backfilled with #8 stone. Static water level was reported at 30 feet. The formations encountered were reported as primarily limestone.

The thermal conductivity (**k**) value for this borehole is **2.0 btu/degree F-hr-foot**. This is an average conductivity per foot for the borehole. This value represents the rate at which the borehole and rock will transfer heat.

To accurately measure the thermal conductivity of the formation a borehole should be drilled and grouted with a bentonite grout to prevent any flow of water through the borehole.

All test equipment, methods, procedures, calculations, and interpretation is done in accordance with the recommendations and guidelines of the International Ground Source Heat Pump Association.