

TERRESTRIAL HEAT FLOW AND  
THERMAL CONDUCTIVITY  
IN SOUTHWESTERN VIRGINIA

by

Marshall Allan Reiter

Thesis submitted to the Graduate Faculty of the  
Virginia Polytechnic Institute  
in partial fulfillment of the requirements for the degree of  
DOCTOR OF PHILOSOPHY  
in  
Geophysics

APPROVED:

John K. Costain  
Chairman, John K. Costain  
Prof., Dept. of Geol. Sci.

Edwin S. Robinson  
Edwin S. Robinson  
Assoc. Prof., Dept. of Geol. Sci.

Byron N. Cooper  
Byron N. Cooper  
Chairman, Dept. of Geol. Sci.  
Prof., Dept. of Geol. Sci.

Gilbert A. Bollinger  
Gilbert A. Bollinger  
Asst. Prof., Dept. of Geol. Sci.

Charles E. Sears  
Charles E. Sears  
Assoc. Prof., Dept. of Geol. Sci.

C. B. Ling  
C. B. Ling  
Prof., Dept. of Mathematics

October, 1969  
Blacksburg, Virginia

TABLE XVI

Hole CC-D

Depth(feet)	$K_z$ (mcal/cm-sec-°C)	$\bar{K}_z$ (mcal/cm-sec-°C)
786	13.9	
837	12.7	13.5 ± 0.7
887	14.0	
986	8.87	
1036	10.0	10.5 ± 1.9
1086	12.6	
1186	8.86	
1236	13.5	11.5 ± 2.2
1285	12.1	
1337	11.8	