

UNITED STATES DEPARTMENT OF COMMERCE
WASHINGTON

National Bureau of Standards

Certificate

FOR

Radium Content of Standard Rock Sample

BEREA SANDSTONE

Standard Sample No. 787 *

The average of several determinations made cooperatively at Massachusetts Institute of Technology, at the Geophysical Laboratory of the Carnegie Institution of Washington and at the National Bureau of Standards yields the following value for the radium content of the rock sample described below:

$0.24 \pm 0.02 \times 10^{-12}$ g Ra per gram of rock

These figures are based on measurements of 5-gram portions. The probable error given includes the variations which arise from inhomogeneity of the sample and means that one-half the 5-gram portions taken from any sample at random should fall within the indicated limits.

For the Director,
by

L. L. Stohmann
Radioactivity Section

S.S. No. PS 22921
P.S. No. Y 31428

Petrographic data:- Cleveland, Ohio. Mississippian in age. Composed of subangular sand grains, a little chert-like quartz and less calcite and feldspar. Grinding:- The rock was crushed and pulverized in a steel rod mill. It was then screened to pass 60 mesh and be retained on 100 mesh screen.

* Revised standard sample No. 4977