EXPLANATION

Diameter of circle indicates total weight of heavy-mineral concentrate, in grams

>1,000

400–999

100–399

<99

Others
Rutile
Magnetite
Zircon
Ilmenite

Heavy-mineral content
See table in text for numerical values

Quadrangle boundary

Anorthosite boundary

79°00′
79°05′
37°45′
37°40′

MASSIES MILL QUADRANGLE
PINEY RIVER QUADRANGLE
LOVINGSTON QUADRANGLE
SHIPMAN QUADRANGLE

174 175 176 177 173 172 181 170 171 182 183 184 185 180 178 188 199 187 186 192 179 191 189 169 197 193 190 198 196 194 195

Base from U S Geological Survey
1 24,000, Piney River, 1963, Massies Mill, 1965,
1 62,500, Lovingston, 1943, Shipman, 1961

SCALE 1 62 500

1 ½ 0 1 2 3 4 MILES

1 5 0 1 2 3 4 KILOMETERS

CONTOUR INTERVAL 20, 40, AND 50 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D C —1969—G69450

MAP SHOWING SAMPLE LOCATION AND HEAVY-MINERAL CONTENT OF PANNED CONCENTRATES FROM ALLUVIUM IN PRESENT STREAM CHANNELS, ROSELAND DISTRICT, VIRGINIA