




**PRELIMINARY GEOLOGIC MAP
OF PARTS OF
CRANBERRY LAKE
AND
STARK QUADRANGLES,
NEW YORK**

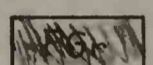
Geology by
A. F. Buddington and B. F. Leonard
Parts of July - October, 1943


EXPLANATION

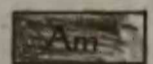
 107
Granite,
medium even grained, commonly
with gneissoid to gneissic structure.
May include locally an occasional
tabular layer of Grenville meta-
sediments.

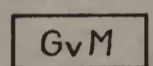
 124
Granite
with subordinate amphibolite layers.

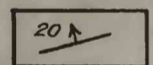
 121
Granite
with local tabular layers of
Grenville metasediments.

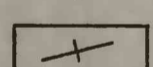
 122
Phacoidal granite gneiss
with conspicuous pink and green
phacoidal (almond-shaped) structure;
a member of the quartz syenitic
series.

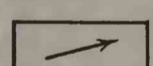
 123
Quartz syenite gneiss,
green where fresh.


 126
Amphibolite
(? metagabbro gneiss):
hornblende-plagioclase gneiss with
varying amounts of pyroxene; locally
with injected granite.

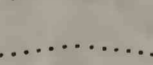
 GvM
Grenville metasediments
and migmatites:
thin-layered feldspathic quartzite
beds, in part pyroxenic with some
conformable pegmatite injection;
migmatites (mixed rocks consisting
of alternate thin layers of igneous
and metasedimentary material);
pyroxene gneiss; local beds of
mica and sillimanite gneiss, of
pyroxene skarn, and of amphibolite;
some intrusive sheets of granite
in part contaminated with incorpo-
rated metasediments. Rare
coarsely crystalline limestone beds.


 20
Strike and dip of foliation

 21
Foliation steeply dipping,
80° or greater.

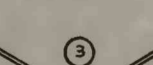
 22
Linear structure

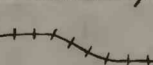
 23
Geologic boundary,
where closely inferred.

 24
Geologic boundary,
inferred where rocks are effect-
ively concealed by glacial and
glacio-fluvial deposits and
alluvium.

 25
Magnetite ore body

CORRECTIONS TO CULTURE

 26
Highway,
Benson Mines through Cranberry Lake.

 27
Clifton Extension
of the New York Central Railroad,
Newton Falls to Clifton (Russell
Quadrangle)

and
Emporium Forestry Co. Railroad
(roadbed only; rails removed),
Cranberry Lake to Gulf Creek.

