






## LITHOLOGIC UNITS


-  **Tr**  
**RHYOLITE**  
 Buff to dark gray aphanitic rock with white phenocrysts of quartz and feldspar. Dikes 5-20 feet wide. Silica content 68.2-77.3 percent based on refractive indices of glass beads.


 **Td**  
**RHYODACITE**  
 Dark gray aphanitic rock with white phenocrysts of quartz and feldspar. Dikes 5-20 feet wide. Silica content 66.4-67.7 based on refractive indices of glass beads.


 **Th**  
**HORNBLENDE RHYODACITE**  
 Dark gray aphanitic rock; green-black phenocrysts of hornblende with minor quartz and feldspar. Dikes 5-20 feet wide. Silica content 62.2-62.9 percent based on refractive indices of glass beads.


  
**SHEAR ZONE TECTONITES**  
 Pink, green, and greenish-brown cataclasite, submylonite, and mylonite with abundant quartz and epidote. Commonly brecciated and rehealed.

 **Pp**  
**PEGMATITE**  
 Buff to pink, coarse-grained rock composed primarily of potash feldspar, quartz, and plagioclase (An<sub>8</sub>-An<sub>12</sub>). Late phase of Log Cabin granite.


 **Pg**  
**LOG CABIN GRANITE**  
 Buff to pink granite, quartz monzonite, and minor trondhjemite. Fine- to coarse-grained, generally equigranular with minor porphyritic phases containing large (2-3 cm.) potash feldspar phenocrysts. Primarily potash feldspar, quartz, and plagioclase (An<sub>2</sub>-An<sub>12</sub>).

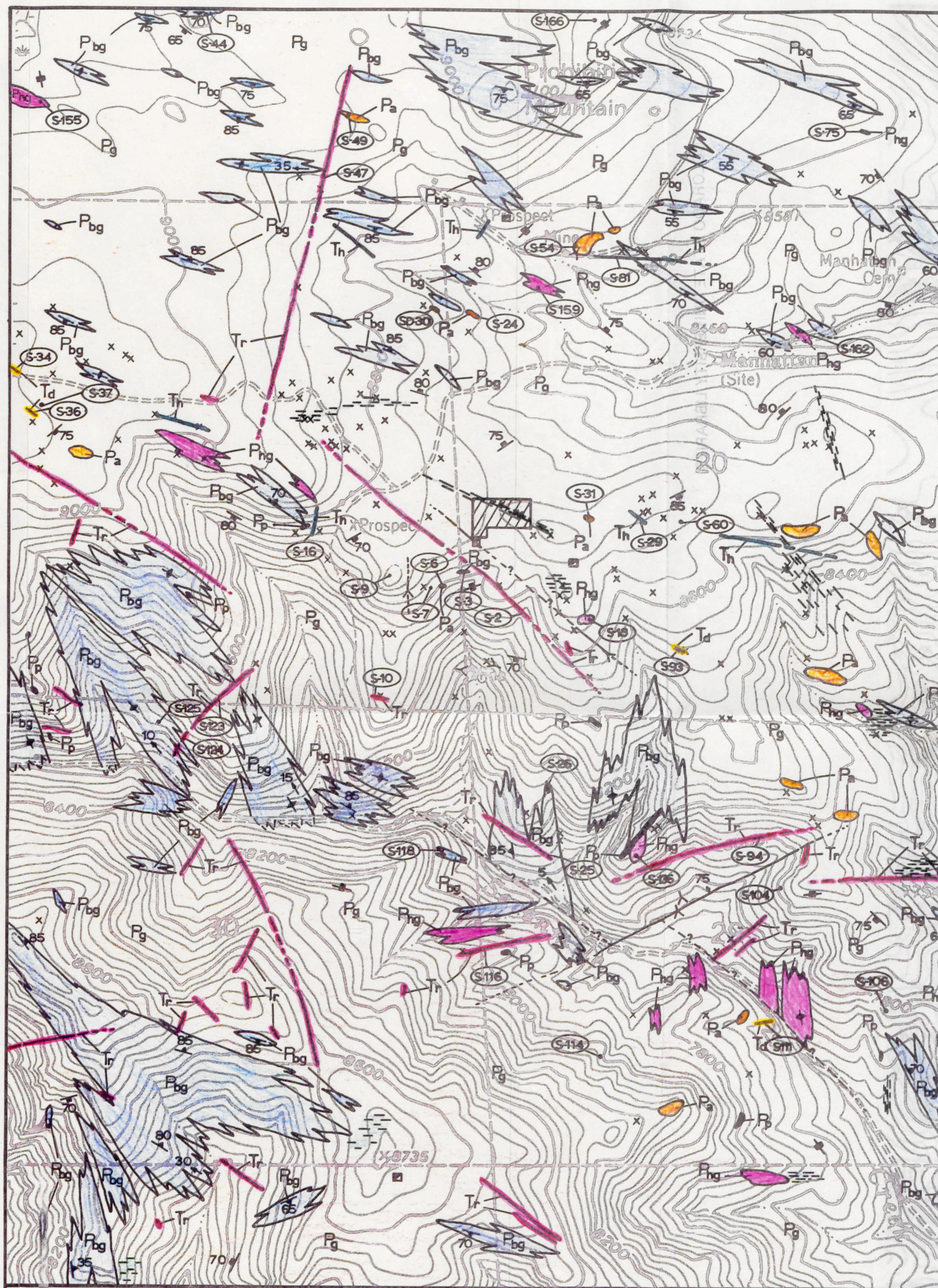
 **Pa**  
**AMPHIBOLITE**  
 Dark green to black, medium- to coarse-grained, equigranular rock composed primarily of hornblende and plagioclase (An<sub>36</sub>-An<sub>51</sub>) with locally abundant quartz and/or epidote.

 **Png**  
**HORNBLENDE GNEISS**  
 Dark green to black, fine- to coarse-grained rock with pronounced foliation defined by layers of hornblende alternating with layers of quartz and plagioclase (An<sub>36</sub>-An<sub>52</sub>). Epidote may be locally abundant.

 **Pbg**  
**BIOTITE GNEISS**  
 Buff to dark brown, fine- to medium-grained rock with prominent foliation imparted by biotite rich layers alternating with layers of quartz, potash feldspar, and plagioclase (An<sub>26</sub>-An<sub>33</sub>).

## MAP SYMBOLS

- CONTACT
- Solid where approximate,  
dashed where inferred.
- 70
- Inclined Vertical  
STRIKE AND DIP OF FOLIATION
- 20
- STRIKE AND PLUNGE OF LINEATION  
(FOLD AXES)
- 50
- Inclined Vertical  
STRIKE AND DIP OF JOINTS
- 75
- FAULT, SHOWING DIP
- ? -
- INFERRED FAULT
- x
- SMALL PROSPECT PIT
- Y
- ADIT
- 
- VERTICAL SHAFT
- 
- GEOCHEMICAL SOIL STUDY AREA
- S-2
- LOCATION OF SAMPLES REFERRED  
TO IN TEXT



Topography by  
U S. Geological Survey, 1962

Geology by  
D.R. Samuelson, 1970-71

SCALE 1:24,000

0 1000 2000 3000 4000 FEET

CONTOUR INTERVAL 40 FEET

True North  
14°  
Magnetic North

Approximate Mean  
Declination, 196:

QE655  
525