EXPLANATION

Devonian

Dbgr	Biotite quartz monzonite.
Dhgr	Hornblende granodiorite and quartz monzonite. Some local granophyre.
Dqd	Hornblende-biotite quartz diorite.
Dd	Biotite diorite locally with hornblende.
Dg	Gabbro. Intergranular to ophitic. Original pyroxene commonly replaced by hornblende.
a	Basaltic-andesite.

Sil. and Dev.

d	Diabase and gabbro in dikes, sills and small hypabyssal plutons.

Silurian

LEIGHTON FORMATION

Sls	Shale and minor tuff.

EDMUNDS FORMATION

Set	Coarse tuff-breccia. Pyroclasts of basalt, dacite, rhyolite, and sedimentary rocks.
Sev	Devitrified vitrophyre. Rhyolite.

DENNYS FORMATION

Sds	Shale and bedded lapilli to fine-grained tuffs.
Sdb	Basalt flows.
Sdv	Flow banded and autobrecciated devitrified vitrophyre. Local vent breccias. Rhyolite and keratophyre.
Sdt	Coarse massive to bedded basaltic tuff-breccia.
Sdc	Round-pebble, open-framework conglomerate. Clasts of volcanic rocks and minor granophyre.

QUODDY FORMATION

Sqs	Dark rusty-weathering pyritiferous argillite and siliceous shale. Local bedded tuff-breccia.
Sqb	Basalt flows.
Sqv	Devitrified vitrophyre and autobreccia. Keratophyre.

Silurian?

UNDIFFERENTIATED: Stratigraphic position unknown

Su?	Assumed Silurian rocks in areas of no exposure.
Su	Probable Silurian rocks. Shale, argillite and volcanics.
Suh	Hornfelsed probable Silurian rocks. Granoblastic quartz-biotitic. Locally foliated.
Suhb	Contact breccia. Hornfelsed rock fragments veined by quartz-diorite and granitic rocks.

NOTE: No stratigraphic order implied within formations.

PRE-SILURIAN

Cambro-Ord.

Oc?	Probable Cookson Formation. Pelitic quartz biotite schist in areas of no outcrop.

SYMBOLS

- Contact located
- Contact approximate
- Contact inferred
- F — Fault located
- Fault approximate
- Fault inferred
- Strike and dip of bedding or flowbanding in vitrophyre
- Strike and dip of metamorphic foliation or strong fracture cleavage

SCALE 1 62,500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

Quadrangle Location

RECONNAISSANCE

BEDROCK GEOLOGY OF THE GARDNER LAKE QUADRANGLE, MAINE

BY

OLCOTT GATES

1978

Maine Geological Survey

DEPARTMENT OF CONSERVATION

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