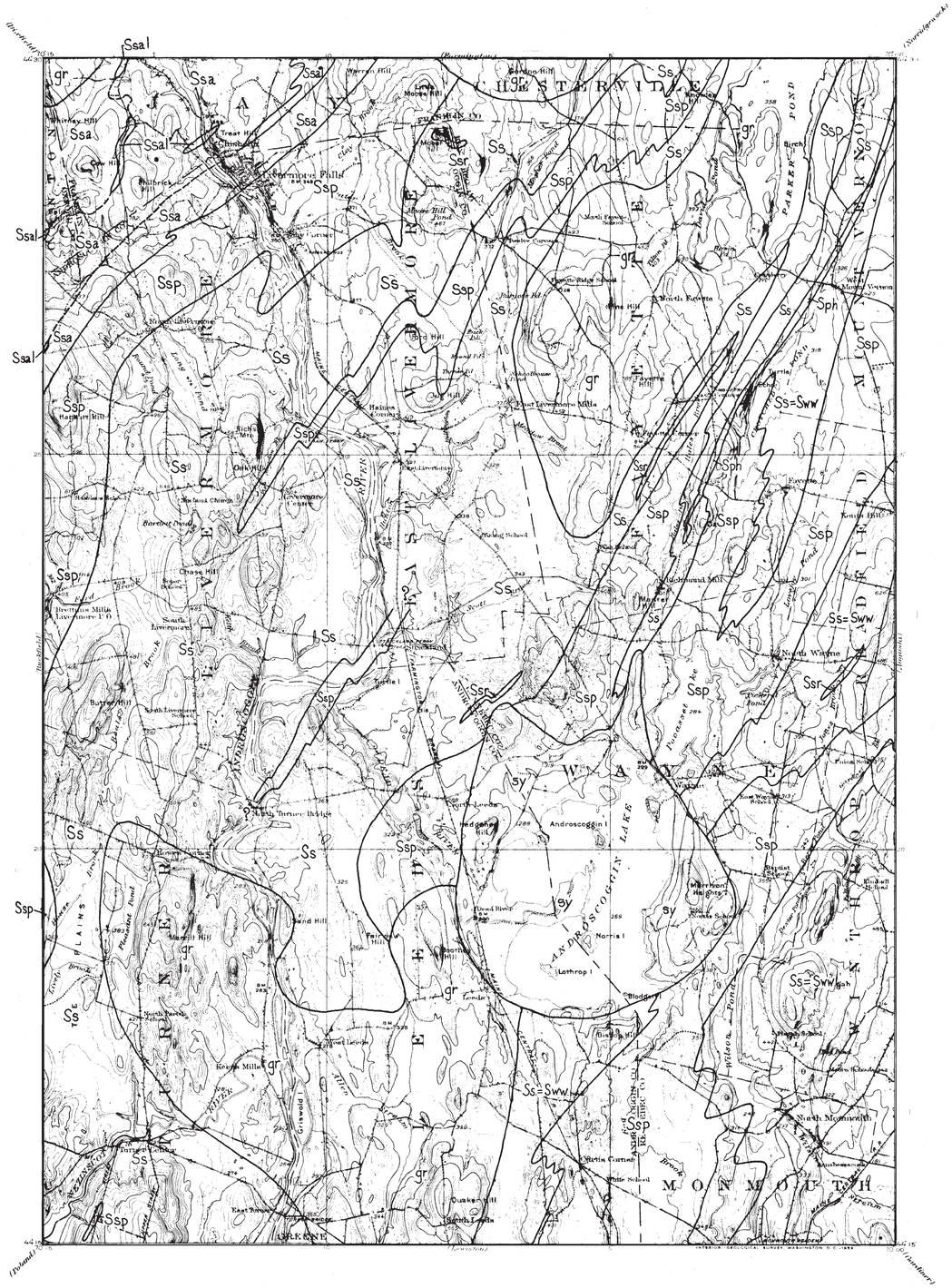

EXPLANATION

INTRUSIVE ROCKS

sy syenite
gr granite
ga gabbro

METAMORPHOSED BEDDED ROCKS

Lower Devonian

SEBOOMOOK FORMATION

Day Mountain Member

Dsd: Rythmically graded bedded, locally somewhat rusty-weathering, light gray metasiltstone and gray metapelite; fine-to medium grained, light gray to buff, weakly calcareous graywacke metasandstone in graded beds with typically graded bedded gray metasiltstone and dark gray metapelite.

Dsdc: Polymict granule metaconglomerate in graded beds with all rock types noted under (Dsd).

Dsdl: Regularly and thinly bedded, light gray arenaceous metalimestone, gray calcareous metasiltstone, and dark gray calcareous metapelite: massive greenish-gray calc-silicate granofels; rusty weathering, dark gray sulfidic metasandstone.

Dsdr: Rusty weathering dark metashale

Dsds: Calcareous metasandstone

Temple Stream Member

Dst: Typically strongly rusty-weathering, dark gray, bedded sulfidic and graphitic quartz-rich granule metaconglomerate, metasandstone, metasiltstone and metapelite; minor buff weathering, fine grained calcareous metasandstone and dark gray metapelite.

Dstc: Conglomerate.

Mount Blue Member

Dsm: Rythmically graded bedded, locally somewhat rusty-weathering, light gray metasiltstone and gray metapelite.

HILDRETHS FORMATION

Dh: Light gray, weakly calcareous, felspathic metasandstone, commonly with ellipsoidal pods of green and white calc-silicate granofels, graded bedded with minor dark gray metapelite.

Dhr: Rusty weathering dark metashale.

CARRABASSETT FORMATION

Dc: Rythmically graded bedded, light gray metasiltstone and gray metapelite; massive gray metapelite; rare polymict granule metaconglomerate near lower contact.

Dcr: Rusty-weathering, sulfidic, dark gray metasiltstone and metapelite.

Upper Silurian(?) to Lower Devonian(?)

MADRID FORMATION

Thinly to thickly bedded, purplish-gray, weakly calcareous metasandstone, commonly with pods of calc-silicate granofels, locally graded bedded with minor gray metasiltstone and dark gray metapelite; thinly layered, purplish-gray metasandstone and variably green and white calc-silicate granofels typically forming lower part of formation.

FALL BROOK FORMATION

Typically thickly bedded, purplish gray, weakly calcareous metasandstone, characteristically graded bedded with subordinate gray metasiltstone and dark gray metapelite; rhythmically graded bedded light purplish-gray metasiltstone and darker purplish-gray metapelite.

Silurian

Ludlovian

SMALLS FALLS FORMATION

Rusty weathering, dark gray sulfidic metasandstone, metasiltstone, and metapelite, minor, dark gray, quartz-rich, sulfidic metasandstone with thin bands of calc-silicate granofels.

PARKMAN HILL FORMATION

Sph: Typically strongly rusty-weathering, dark gray, sulfidic, quartz-rich, granule metaconglomerate, metasandstone, metasiltstone, and metapelite; graded bedding common, but not universally present.

Llandoverian to Wenlockian

PERRY MOUNTAIN FORMATION

Sp: Thinly rhythmically layered, light gray metasiltstone and darker, mica-rich metapelite; local massive metapelite.

Spc: Polymict granule metaconglomerate, graded bedded with thinly interbedded metasiltstone and metapelite.

Sps: Massive or thinly laminated, medium gray, weakly calcareous metasandstone and gray metasiltstone; minor calc-silicate granofels.

SANGERVILLE FORMATION

Ss: Typically thickly bedded, fine- to coarse-grained, light gray, typically calcareous, graywacke metasandstone, characteristically graded bedded with thinly interlaminated gray metasiltstone and dark gray or greenish-gray metapelite; subordinate, thinly interlaminated, gray metasiltstone and dark gray metapelite.

Ssa: (Anasagunticook Member): Dominant, thinly interlaminated, gray metasiltstone and dark gray metapelite; subordinate, light gray, calcareous graywacke metasandstone, graded bedded with gray metasiltstone and dark gray metapelite.

Ssal: Metalimestone.

Ssc1: (Lower Metaconglomerate Member): Polymict granule metaconglomerate in addition to all rock types noted under (Ss).

Ssr: Strongly rusty-weathering, sulfide-bearing rocks, indistinguishable from those of the Parkman Hill Formation.

Ssp: (Patch Mountain Member): Thinly layered, light gray, arenaceous metalimestone and gray calcareous metasiltstone, locally interbedded with dark gray calcareous metapelite.

Ssll (Lower Metalimestone Member): Similar to the Patch Mountain Member, except that it is locally interlayered with thin beds of polymict granule metaconglomerate, and of rusty-weathering dark gray sulfidic metasandstone.

WATERVILLE FORMATION

Sww: Beds with variable thickness of light-gray quartz wacke and dark-gray to greenish gray pelite belonging to the western facies. Some beds are graded.

Contact

Fault

Premetamorphic fault

Unclassified fault

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 LIVERMORE QUADRANGLE, MAINE

BY
KOST A. PANKIWSKYJ

1978
Maine Geological Survey
DEPARTMENT OF CONSERVATION
Augusta, Maine 04333
Walter A. Anderson, State Geologist
OPEN FILE NO. 78-19