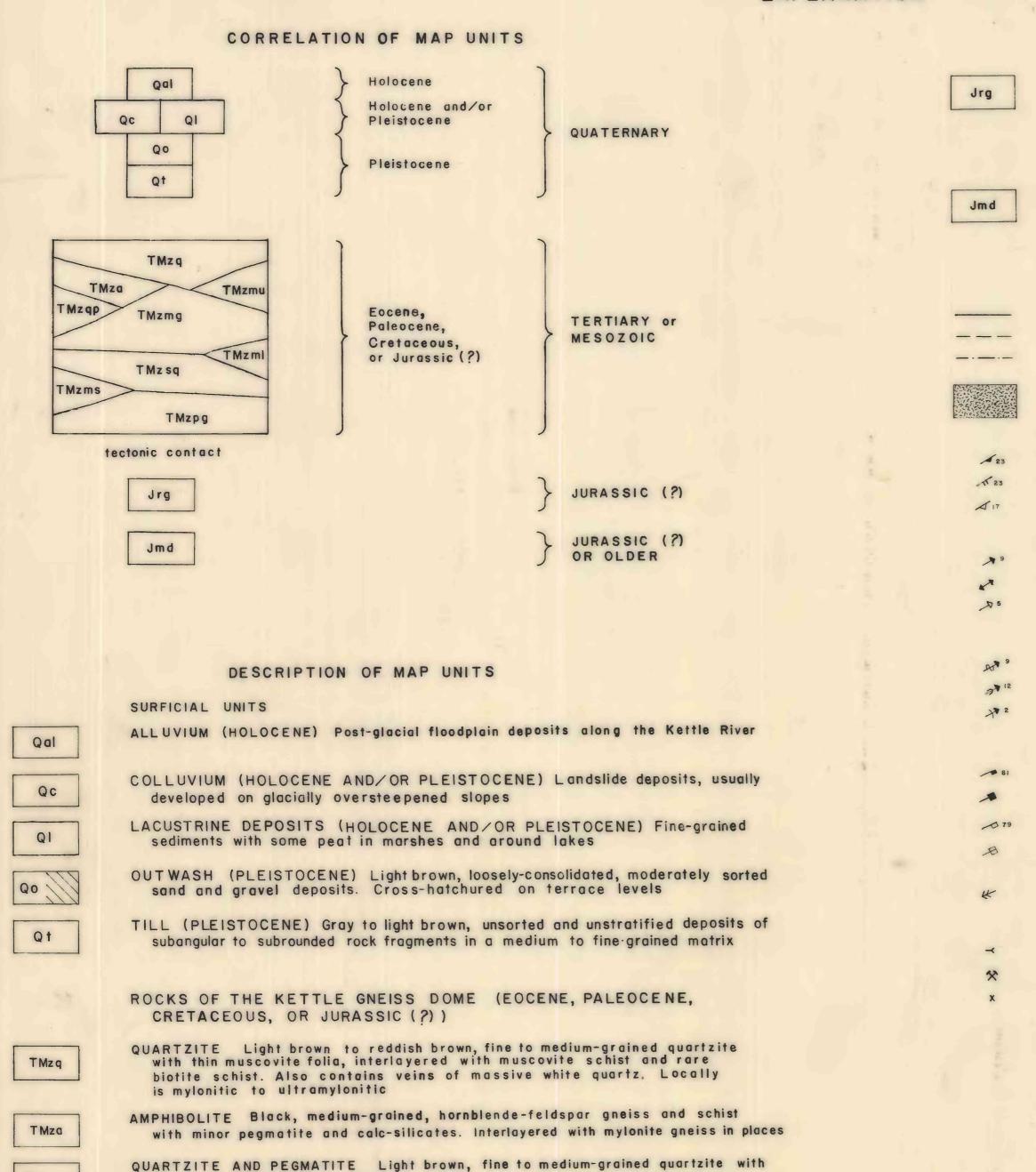
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EXPLANATION



GREENSTONE Greenish gray, medium-grained, weakly metamorphosed igneous rock. Contains dark gray to black, weakly foliated, slightly calcareous argillite and gray pyritic quartzite (metachert?). Resembles and is probably a metamorphosed correlative of the Rossland Group (Jurassic) of the Churchill Mountain 7 1/2' quadrangle 20 km to the north-northeast (K. F. Fox, Jr., written communication, 1980) MARBLE OF DOYLE CREEK (JURASSIC? OR OLDER) Gray, fine-grained, massive to weakly layered, recrystallized limestone, locally dolomitic CONTACTS Accurately located Approximately located Gradational ZONE OF CHLORITE - SERICITE ALTERATION STRIKE AND DIP OF FOLIATION AND LAYERING Earlier, penetrative foliation Compositional layering, may be bedding in places Later, nonpenetrative, mylonitic foliation TREND AND PLUNGE OF LINEATION Inclined earlier lineation Horizontal earlier lineation Inclined later, mylonitic lineation TREND AND PLUNGE OF MINOR FOLD AXES Tight to isoclinal, recumbent folds, commonly intrafolial type Asymmetric, commonly overturned, usually kink like close folds Gentle to open, upright folds STRIKE AND DIP OF JOINTS Inclined, numerous in outcrop Vertical, numerous in outcrop Inclined, less numerous in outcrop

ROCKS OF THE BORDER ZONE

ROSSLAND GROUP (?) (JURASSIC ?)

MINES AND PROSPECTS

Adit

Open pit

Prospect

Materials mined: b, building stone; g, gravel; p, pegmatite (probably uranium); z, zinc

Vertical, less numerous in outcrop

TREND OF GLACIAL STRIATIONS

NOTES

Symbols are combined at location measured

Older foliation and lineation may be later mylonitization in places but was not recognized due to poor exposures

MYLONITE GNEISS Gray, medium grained, feldspar-quartz-biotite-muscovite gneiss; dominantly a mylonite gneiss, but locally develops mylonites, blastomylonites and ultramylonites in thin zones, particularly in the upper part of the unit. Thin pegmatite and alaskite bodies, commonly mylonitic, are common throughout the unit

thin muscovite folia and abundant medium to coarse-grained pegmatite

MARBLE White, coarse-grained, weakly-foliated marble

MARBLE White, coarse-grained, weakly-foliated marble

TMzqp

TMzmu

TMzmg

TMzml

TMzsq

TMzms

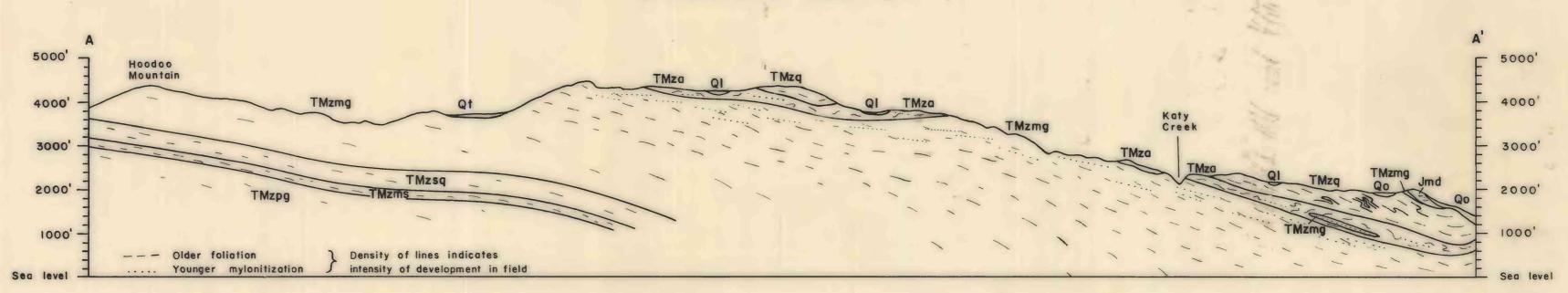
TMzpg

SILLIMANITE QUARTZITE Gray to brown, fine to medium-grained quartzite with muscovite, biotite and sillimanite. Interlayered with minor biotite-quartz-feldspar sillimanite schist and marble in southwest. Contains nearly massive white quartzite near top to north

MARBLE AND SILLIMANITE SCHIST Interlayered white, coarse-grained marble and biotite-quartz-feldspar-sillimanite schist and gneiss with minor gray to brown quartzite

PORPHYROCLASTIC GNEISS Gray, medium to coarse-grained feldspar-quartz-biotite with local 1 to 5 cm-long K·feldspar porphyroclasts. Contains layers of biotite-hornblende-feldspar schist

STRUCTURE SECTION



PRELIMINARY GEOLOGIC MAP OF THE BOYDS QUADRANGLE, FERRY AND STEVENS COUNTIES, WASHINGTON