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Special Publication 22, (Geol. Map 5)

GEOLOGIC MAP OF THE NORTHEAST FLANK OF THE
FLINT CREEK RANGE, WESTERN MONTANA

by

Thomas A. Mutch



TABLE 1.—Sedimentary Formations of the Northeast Flank of the Flint Creek Range.

| | SERIES | FORMATION | THICKNESS (FEET) | LITHOLOGY | METAMORPHIC EQUIVALENT |
|------------------|--------------|--------------------|--|--|--|
| | RECENT | | | alluvium, gravel travertine | |
| | PLEISTOCENE | | | early, intermediate, and late glacial deposits | |
| | PLIOCENE | | | gravel, silt | |
| | MIOCENE | | | volcanic-rich silts and sands | |
| CRETACEOUS | UPPER | GOLDEN SPIKE BEDS | 4000 | conglomerate, sandstone, "volcanic" sandstone, & flows | |
| | | CARTER CREEK FM. | 5000 | varicolored siltstone and sandstone | |
| | | JENS FM. | 1400 | siltstone, shale | |
| | | COBERLY FM. | 700 | sandstone, siltstone, limestone | |
| | LOWER | DUNKLEBERG MBR. | 1700 | volcanic-rich siltstone, conglomerate. | fine-grained mottled hornfels |
| | | TAFT HILL MBR. | 1000 | sandstone | indurated sandstone |
| | | FLOOD MBR. | 685 | black shale | fine-grained hornfels with chastalite porphyroblasts |
| | KOOTENAI FM. | 1250* | reddish and greenish siltstone, sandstone, and limestone | drab-colored hornfels containing mica, chlorite, and cordierite | |
| MIDDLE AND UPPER | | 480* | calcareous siltstone and sandstone | dark-green hornfels with elliptical clots of calcite and amphibole | |
| PENN. PERM. JUR. | | | 200* | shale, sandstone, limestone, quartzite, phosphate rock | fissile hornfels, calcareous quartzite, marble |
| | | QUADRANT QUARTZITE | 120 | orthoquartzite | recrystallized quartzite |
| | | AMSDEN FM. | 300* | calcareous siltstone | |
| MISS. | | MADISON LIMESTONE | 2300* | limestone with variable amounts of chert | white and gray coarse-grained marble with tremolite clusters |
| DEV. | | JEFFERSON FM. | 850* | dolomitic limestone | |
| | | MAYWOOD FM. | 275* | calcareous sandstone | |
| CAMBRIAN | UPPER | RED LION FM. | 330* | limestone with siliceous laminae | laminated calc-silicate hornfels, marble |
| | | HASMARK DOLOMITE | 1100* | dolomite | fine-grained dolomitic marble |
| | MIDDLE | SILVER HILL FM. | 330* | shale, limestone | laminated dark-green calc-silicate hornfels, tremolitic marble |
| | | FLATHEAD QUARTZITE | 200* | orthoquartzite | recrystallized quartzite |
| PRECAMB. | BELT | MISSOULA GROUP | 1000 | sandstone, shale, quartzite | quartz-feldspar-biotite schist and phyllite; quartzite |
| | | NEWLAND FM. | 7000 | argillaceous limestone | light-green to dark-green calc-silicate hornfels |
| | | RAVALLI FM. | 2000 | light-gray quartzite with some sericitic beds | recrystallized quartzite, phyllite |

* taken from McGill, 1959

