

This map is preliminary and has not been edited
or reviewed for conformity with U. S. Geological
Survey standards and nomenclature.

EXPLANATION

(Continued)

DISCONFORMITY

PIPpq	Pp Pq
-------	----------

Phosphoria and Quadrant Formations

Phosphoria Formation (Pp): brown and gray chert and sandstone, in part
phosphatic; locally contains one or two thin beds of phosphate rocks.
About 50 feet thick.

Quadrant Formation (Pq): light-colored quartzitic sandstone and interbedded
light-gray sugary-textured sandy dolomite. About 325 feet thick.

These formations were mapped as a unit (PIPpq) in places.

PMo

Amsden and Big Snowy Formations undivided

Red to grayish-red mudstone and shale, with subordinate carbonate rock and
gray, brown or yellow argillaceous sandstone in upper and lower parts;
generally poorly exposed; middle part is medium- to dark-gray dolomite.
Upper part of unit is Amsden Formation; middle and lower part of the unit
are Big Snowy Formation. About 250 feet thick

DISCONFORMITY

Mmc

Mission Canyon Limestone

Medium-gray to light-gray thickly and indistinctly bedded limestone with a
few thin siliceous layers in lower 200 feet and sparse gray chert
nodules and lentils in upper half. Collapse breccia common in upper
part. About 1,000 feet thick.

MI

Lodgepole Limestone

Upper part: medium-gray limestone in distinct beds as much as 3 feet thick
alternating with zones of much thinner beds containing rare mudstone
partings; lower part: medium-gray limestone in beds 1 inch to 1 foot
thick with partings and interbeds of yellow to red calcareous mudstone.
Grades into Mission Canyon Limestone through a 150- to 200-foot zone.
About 700 feet thick.

MDt

Three Forks Shale

Greenish-gray and brown shale with subordinate interbedded sandstone.
Carbonatic siltstone at top; fossiliferous blue-gray limestone about
100 feet below top; poorly exposed; about 300 feet thick.

Dj

Jefferson Dolomite

Dark-gray granular-weathering fetid well-bedded dolomite with subordinate
dark-gray limestone and light-gray dolomite; about 500 feet thick.

DISCONFORMITY

D€mr

Maywood and Red Lion Formations

Varicolored, generally in shades of red and yellowish-brown, argillaceous,
dolomitic, and calcareous rocks; poorly exposed. Maywood is about 40
feet thick; Red Lion is about 90 feet thick

€pi

Pilgrim Dolomite

Upper part: light-gray thick-bedded dolomite commonly mottled medium-gray
near base. Middle part: light- to medium-gray limestone irregular
ribboned with yellowish-gray silty dolomite. Lower part: mottled
light- and dark-gray dolomite and limestone. About 500 feet thick.

€pa

Park Shale

Olive-gray, gray, and light-brown shale with a few thin beds of argillaceous
limestone, siltstone, and sandstone; poorly exposed; about 200 feet thick.

PERMIAN

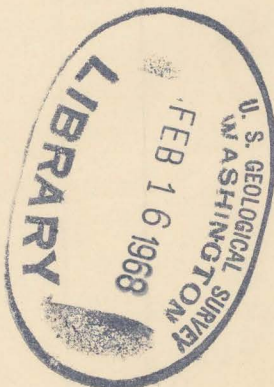
PENNSYLVANIAN

CARBONIFEROUS

MISSISSIPPIAN

DEVONIAN

CAMBRIAN



Montana (Elkhorn Mountains) Geol. 1:24,000
sheet 3,
cop. A



M(200)
R29a
no. 68-303
sheet
3 of 4
C.1