UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1319-F
PLATE 1

GEOLOGIC MAP OF THE GLACIER PRIMITIVE AREA, WYOMING

Geology by H. C. Granger and E. J. McKay, 1968–69

Aeromagnetic survey flown at 13,500 feet barometric elevation, 1969

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Base from U.S. Forest Service, 1:31,680: Mount Bonneville, 1962; Younts Peak 3, Younts Peak 4, Fremont Peak 1, Fremont Peak 2, Fremont Peak 4, Burris, Lenore 3, 1967

SCALE 1:62 500

1 ½ 0 1 2 3 4 MILES

1 .5 0 1 2 3 4 KILOMETERS

APPROXIMATE MEAN DECLINATION, 1971

EXPLANATION

Qa Alluvium	Ql Landslide	Qt Talus	QUATERNARY — Holocene
Qgy Younger glacial deposits			QUATERNARY — Holocene
Qgo Older glacial deposits			QUATERNARY — Pleistocene
Tw Wind River Formation			TERTIARY — Eocene
Pp Park City Formation			PERMIAN
IPt Tensleep Sandstone			PENNSYLVANIAN
IPMa Amsden Formation			MISSISSIPPIAN — Upper Mississippian
Mm Madison Limestone			MISSISSIPPIAN — Lower Mississippian
Dd Darby Formation			DEVONIAN
Ob Bighorn Dolomite			ORDOVICIAN — Middle and Upper Ordovician
€gg Gallatin Limestone and Gros Ventre Formation			CAMBRIAN — Upper Cambrian
€f Flathead Sandstone			CAMBRIAN — Middle Cambrian
p€Cd Diabase			PRECAMBRIAN
p€Cp Pegmatite			PRECAMBRIAN
p€Cgr Granite			PRECAMBRIAN
p€Cgm Gneiss and migmatite into which felsic dike network has intruded			PRECAMBRIAN
p€Cm Migmatite			PRECAMBRIAN
p€Cum Ultramafic rocks			PRECAMBRIAN
p€Cgn Gneiss			PRECAMBRIAN

Contact
Dashed where approximately located; dotted where concealed

Fault displacing rocks of Precambrian and Paleozoic ages
Dashed where approximately located; U, upthrown side; D, downthrown side

Lineaments and faults of Precambrian(?) age
Mapped in part from aerial photographs

Shear zone in Precambrian rocks
Probable horizontal movement in Precambrian time; rejuvenated vertical movement in Laramide time. Dashed where approximately located

Mount Helen structural belt
Approximately ¼ mile wide; characterized by leucogneisses, augen gneisses, and porphyritic granite bodies

Breccia zone
Quartz-chlorite filling

15 Strike and dip of beds

Horizontal — 45 Inclined — Vertical
Strike and dip of foliation

7300 Magnetic contours
Showing total intensity of earth's magnetic field in gammas, relative to arbitrary datum. Hachured to indicate closed areas of lower magnetic intensity. Contour interval 20 gammas

X7310 Location of measured maximum or minimum intensity within closed high or closed low

Flight path
Showing location and spacing of data

×2000 Location showing depth from surface of ground to basement rock
Calculated from magnetic data. Depth in feet

Vein
Quartz pyrite or quartz hematite; locally weathered to limonitic gossan

Mine or prospect

Approximate boundary of the Glacier Primitive Area

Glaciers and snowfields